1. Identification of the substance/mixture and of the company/undertaking

Product name	18010E Imron Marine Rheology Binder
Product code	18010E

Intended use of the substance/preparation
Intermediate

Supplier	Axalta Coating Systems Australia Pty Limited
Street address	15 - 23 Melbourne Road, Riverstone NSW 2765, Australia
Telephone	
Telefax	

Emergency Information

Emergency telephone number	+(64) 9801 0034 NZ Poisons Information Centre: 0800 764 766 or +(64) 3 479 7248
Importer	Resene Automotive & Light Industrial
Street/Box	4 Te Apunga Place, Mt Wellington, Auckland, NZ
Nat.-Code/Postal code/City	
Telephone	+64 (09) 259 2738
Date of preparation	2015-01-29

2. Hazards identification

Classified as a Dangerous Good according to NZS 5433
Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001

HSNO Classification

Flammable liquids	Category 3.1B
Skin corrosion/irritation	Category 6.3B
Serious eye damage/eye irritation	Category 6.4A
Acute aquatic toxicity	Category 9.1C

Endpoints which are “”not classified“”, “”cannot classified“” and “”not applicable“” are not shown

GHS-Labelling

Hazard symbols

Signal word	Danger
Hazard statements	Highly flammable liquid and vapour. Causes mild skin irritation. Causes serious eye irritation. Harmful to aquatic life.
Precautionary statements	Wear eye protection/ face protection. Avoid release to the environment. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. If eye irritation persists: Get medical advice/ attention. Store in a well-ventilated place. Keep cool.

Other hazards which do not result in classification
None known.

3. Composition/information on ingredients

Pure substance/mixture
Mixture

CAS-No.	Chemical Name	Concentration	GHS Hazardous
123-86-4	n-butyl acetate	10 - 20%	√
110-43-0	heptan-2-one	10 - 20%	√
67-63-0	propan-2-ol	5 - 10%	√
763-69-9	ethyl 3-ethoxypropionate	3 - 5%	√
141-78-6	ethyl acetate	1 - 3%	√
95-63-6	1,2,4-trimethylbenzene	0.1 - 0.3%	√

Non-regulated ingredients 50 - 60%

4. First aid measures

Eye contact
Remove contact lenses. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Seek medical advice.

Skin contact
Do NOT use solvents or thinners. Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. If skin irritation persists, call a physician.

Inhalation
Avoid inhalation of vapour or mist. Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

Ingestion
If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting. Keep at rest.

Most Important Symptoms/effects, acute and delayed

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Notes to physician
No data available on the product. See section 3 and 11 for hazardous ingredients found in the product.

5. Firefighting measures

Suitable extinguishing media
Universal aqueous film-forming foam, Carbon dioxide (CO2), Dry chemical, Water spray.

Extinguishing media which shall not be used for safety reasons
High volume water jet

Specific hazards
Flammable liquid. Vapours may form explosive mixtures with air. Remove all sources of ignition. Solvent vapours are heavier than air and may spread along floors. Do not allow run-off from fire fighting to enter drains or water courses. Never use pressure to empty container: container is not a pressure vessel. Always keep in containers of same material as the original one.

Special Protective Equipment and Fire Fighting Procedures
Wear as appropriate: Full protective flameproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. In the event of fire, cool tanks with water spray.

6. Accidental release measures

Personal precautions
Keep in a well-ventilated place. Keep away from sources of ignition. Comply with safety directives (see chapters 7 and 8). Do not inhale vapours.

Environmental precautions
Do not let product enter drains. Notify the respective authorities in accordance with local law in the case of contamination of rivers, lakes or waste water systems.

Methods for cleaning up
Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations. Clean preferably with a detergent; avoid use of solvents.

7. Handling and storage

Safe handling advice
Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation may charge electrostatically: always use grounded leads when transferring from one container to another. Operators should wear antistatic footwear and clothing. No sparking tools should be used. Avoid skin and eye contact. Do not breathe vapours or spray mist. Smoking, eating and drinking should be prohibited in the application area.

Storage
Suitable storage conditions
Observe label precautions. Store between 5 and 25 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Suitable container and packaging materials for safe storage
Always keep in containers made of the same material as the supply container.

8. Exposure controls/personal protection

National occupational exposure limits
Workplace Exposure Standards (WESs) 2002

Chemical Name		
n-butyl acetate	TWA	150 ppm
	STEL	200 ppm
	STEL	950 mg/m3

Chemical Name		
	TWA	713 mg/m3
heptan-2-one	TWA	50 ppm
	TWA	233 mg/m3
propan-2-ol	TWA	400 ppm
	STEL	500 ppm
	STEL	1,230 mg/m3
	TWA	983 mg/m3
ethyl acetate	TWA	200 ppm
	TWA	720 mg/m3
1,2,4-trimethylbenzene	TWA	25 ppm
	TWA	123 mg/m3

Engineering measures
Provide adequate ventilation. This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

Protective equipment
Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

Respiratory protection
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Eye protection
Wear protective eyewear for protection against solvent spatter.

Hand protection
The breakthrough time of gloves is unknown for the product itself. The glove material given is recommended on basis of the substances in the preparation.

Chemical Name	Glove material	Glove thickness	Break through time
n-butyl acetate	Viton (R) ®	0.7 mm	10 min
	Nitrile rubber	0.33 mm	30 min
ethyl acetate	Nitrile rubber	0.33 mm	10 min
	Viton (R) ®	0.7 mm	480 min

The protective glove should be checked in each case for their work specific suitability (e.g. mechanical stability, product compatibility, and anti-static properties). When the intended use is for spray application a nitrile glove of the chemical resistance group 3 (e.g. Dermatril® glove) is to be used. After contamination, the glove has to be changed. If immersing the hands into the product is not avoidable (e.g. maintenance work) a butyl or fluorocarbon rubber glove should be used. When skin exposure may occur to materials specified in section 3 of this SDS, advice should be sought from the glove supplier as to appropriate type to use with this product and the permeation breakthrough times. Care should be taken when working with sharp edged articles as these can easily damage the gloves and make them ineffective. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. Damaged gloves or those showing signs of wear should be replaced immediately.

Skin and body protection
Wear suitable protective clothing. Personnel should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber.

Hygiene measures
Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use organic solvents!

9. Physical and chemical properties

Appearance

Form : liquid Colour: cloudy Odor Threshold : no data available

pH	No data available.	
Freezing point	Not applicable.	
Boiling point	83 °C	
Flash point	14 °C	
Evapouration rate	Slower than Ether	
Flammability		
Upper explosion limit	12 %	
Lower explosion limit	1.1 %	
Vapour pressure	8.6 hPa	
Solubility(ies)	appreciable	
Vapour density	no data available	
Density	0.98 g/cm^3	DIN 53217/ISO 2811
Partition coefficient: n-octanol/water	no data available	
Ignition temperature	377 °C	DIN 51794
Decomposition temperature		
Viscosity (23 °C)	Not applicable.	ISO 2431-1993

10. Stability and reactivity

Stability
Stable

Hazardous polymerisation
Will not occur.

Conditions to avoid
Stable under recommended storage and handling conditions (see section 7).

Materials to avoid
Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Hazardous decomposition products
When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

11. Toxicological information

Information on likely routes of exposure

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Delayed and immediate effects and also chronic effects from short and long term exposure:

Acute oral toxicity
not hazardous

Acute dermal toxicity
not hazardous

Acute inhalation toxicity
not hazardous

% of unknown composition 0 %

Skin corrosion/irritation

n-butyl acetate	Category 3
heptan-2-one	Category 2
propan-2-ol	Category 3
ethyl 3-ethoxypropionate	Category 3
ethyl acetate	Category 3
1,2,4-trimethylbenzene	Category 2

Serious eye damage/eye irritation

heptan-2-one	Category 2B
propan-2-ol	Category 2A
ethyl acetate	Category 2A
1,2,4-trimethylbenzene	Category 2A

Respiratory sensitisation
Not classified according to GHS criteria

Skin sensitisation
Not classified according to GHS criteria

Germ cell mutagenicity
Not classified according to GHS criteria

Carcinogenicity
Not classified according to GHS criteria

Toxicity for reproduction
Not classified according to GHS criteria

Target Organ Systemic Toxicant - Single exposure
Not classified according to GHS criteria

Target Organ Systemic Toxicant - Repeated exposure
Not classified according to GHS criteria

Aspiration toxicity
Not classified according to GHS criteria

Numerical measures of toxicity (acute toxicity estimation (ATE),etc.)
No information available.

Symptoms related to the physical, chemical and toxicological characteristics
Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Through skin resorbtion, solvents can cause some of the effects described here. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.

12. Ecological information

Product contains environmentally hazardous substances and product is not classified per GHS.

Ecotoxicity effects
There are no data available on the product itself. The product should not be allowed to enter drains or watercourses.

Acute aquatic toxicity

n-butyl acetate	Category 3
heptan-2-one	Category 3
ethyl 3-ethoxypropionate	Category 3
1,2,4-trimethylbenzene	Category 2

% of unknown composition 0%

Persistence and degradability
No information available.

Bioaccumulation
No information available.

Mobility in soil
No information available.

Other adverse effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods
Dispose of in accordance with local regulations.

Disposal considerations
A disposal process that converts the waste into energy is recommended. If this is not possible the hazardous waste must be disposed of by incineration.

14. Transport information

NZS5433

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Packing group:	II
Hazchem Code:	3YE

IMDG (Sea transport)

Proper shipping name:	PAINT RELATED MATERIAL

UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	II
Marine Pollutant:	no
EmS:	F-E,S-E

ICAO/IATA (Air transport)

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	II

Matters needing attention for transportation

Confirm that there is no breakage, corrosion, or leakage from the container before shipping. Be sure to prevent damage to cargo by loading so as to avoid falling, dropping, or collapse. Ship in appropriate containers with denotation of the content in accordance with the relevant statutes and rules.

15. Regulatory information

National regulatory information

HSNO Approval Code	HSR002662
HSNO Control A	This product must be under the control of an approved handler during use.
HSNO Classification	
Skin corrosion/irritation	Category 6.3B
Serious eye damage/eye irritation	Category 6.4A
Flammable liquids	Category 3.1B
Acute aquatic toxicity	Category 9.1C

16. Other information

Revision Note

Version	Changes
1.0	

Revision Date: 2015-01-29
B12822659

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.

End of Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking

Product name	18015E Imron Marine Flexible Binder
Product code	18015E

Intended use of the substance/preparation
Binder used in coating manufacturing (for professional use)

Supplier	Axalta Coating Systems Australia Pty Limited
Street address	15 - 23 Melbourne Road, Riverstone NSW 2765, Australia
Telephone	
Telefax	

Emergency Information

Emergency telephone number	+(64) 9801 0034 NZ Poisons Information Centre: 0800 764 766 or +(64) 3 479 7248
Importer	Resene Automotive & Light Industrial
Street/Box	4 Te Apunga Place, Mt Wellington, Auckland, NZ
Nat.-Code/Postal code/City	
Telephone	+64 (09) 259 2738
Date of preparation	2015-01-29

2. Hazards identification

Classified as a Dangerous Good according to NZS 5433
Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001

HSNO Classification

Flammable liquids	Category 3.1B
Skin corrosion/irritation	Category 6.3B

Endpoints which are “”not classified“”, “”cannot classified“” and “”not applicable“” are not shown

GHS-Labelling

Hazard symbols	
Signal word	Danger
Hazard statements	Highly flammable liquid and vapour. Causes mild skin irritation.
Precautionary statements	Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Store in a well-ventilated place. Keep cool.

Other hazards which do not result in classification
None known.

3. Composition/information on ingredients

Pure substance/mixture
Mixture

CAS-No.	Chemical Name	Concentration	GHS Hazardous
123-86-4	n-butyl acetate	10 - 20%	√
110-43-0	heptan-2-one	5 - 10%	√
141-78-6	ethyl acetate	1 - 3%	√
95-63-6	1,2,4-trimethylbenzene	0.1 - 0.3%	√

Non-regulated ingredients 70 - 80%

4. First aid measures

Eye contact
Remove contact lenses. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Seek medical advice.

Skin contact
Do NOT use solvents or thinners. Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. If skin irritation persists, call a physician.

Inhalation
Avoid inhalation of vapour or mist. Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

Ingestion
If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting. Keep at rest.

Most Important Symptoms/effects, acute and delayed

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. If this product mixed with an isocyanate activator/hardener (see MSDS for the activator), the following health effects may apply: Exposure to isocyanates may cause respiratory sensitization. This effect may be permanent. Symptoms include an asthma-like reaction with shortness of breath, wheezing, cough or permanent lung sensitization. This effect may be delayed for several hours after exposure. Repeated overexposure to isocyanates may cause a decrease in lung function, which may be permanent. Individuals with lung or breathing problems or prior reactions to isocyanates must not be exposed to vapors or spray mist of this product.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis. If this product is mixed with an isocyanate, skin contact may cause sensitization.

Notes to physician
No data available on the product. See section 3 and 11 for hazardous ingredients found in the product.

5. Firefighting measures

Suitable extinguishing media
Universal aqueous film-forming foam, Carbon dioxide (CO2), Dry chemical, Water spray.

Extinguishing media which shall not be used for safety reasons
High volume water jet

Specific hazards
Flammable liquid. Vapours may form explosive mixtures with air. Remove all sources of ignition. Solvent vapours are heavier than air and may spread along floors. Do not allow run-off from fire fighting to enter drains or water courses. Never use pressure to empty container: container is not a pressure vessel. Always keep in containers of same material as the original one.

Special Protective Equipment and Fire Fighting Procedures
Wear as appropriate: Full protective flameproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. In the event of fire, cool tanks with water spray.

6. Accidental release measures

Personal precautions
Keep in a well-ventilated place. Keep away from sources of ignition. Comply with safety directives (see chapters 7 and 8). Do not inhale vapours.

Environmental precautions
Do not let product enter drains. Notify the respective authorities in accordance with local law in the case of contamination of rivers, lakes or waste water systems.

Methods for cleaning up
Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations. Clean preferably with a detergent; avoid use of solvents.

7. Handling and storage

Safe handling advice
Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation may charge electrostatically: always use grounded leads when transferring from one container to another. Operators should wear antistatic footwear and clothing. No sparking tools should be used. Avoid skin and eye contact. Do not breathe vapours or spray mist. Smoking, eating and drinking should be prohibited in the application area.

Storage
Suitable storage conditions
Observe label precautions. Store between 5 and 25 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Suitable container and packaging materials for safe storage
Always keep in containers made of the same material as the supply container.

8. Exposure controls/personal protection

National occupational exposure limits
Workplace Exposure Standards (WESs) 2002

Chemical Name		
n-butyl acetate	TWA	150 ppm
	STEL	200 ppm
	STEL	950 mg/m3
	TWA	713 mg/m3
heptan-2-one	TWA	50 ppm

Chemical Name		
	TWA	233 mg/m3
ethyl acetate	TWA	200 ppm
	TWA	720 mg/m3
1,2,4-trimethylbenzene	TWA	25 ppm
	TWA	123 mg/m3

Engineering measures
Provide adequate ventilation. This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

Protective equipment
Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

Respiratory protection
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Eye protection
Wear protective eyewear for protection against solvent spatter.

Hand protection
The breakthrough time of gloves is unknown for the product itself. The glove material given is recommended on basis of the substances in the preparation.

Chemical Name	Glove material	Glove thickness	Break through time
n-butyl acetate	Viton (R) ®	0.7 mm	10 min
	Nitrile rubber	0.33 mm	30 min
ethyl acetate	Nitrile rubber	0.33 mm	10 min
	Viton (R) ®	0.7 mm	480 min

The protective glove should be checked in each case for their work specific suitability (e.g. mechanical stability, product compatibility, and anti-static properties). When the intended use is for spray application a nitrile glove of the chemical resistance group 3 (e.g. Dermatril® glove) is to be used. After contamination, the glove has to be changed. If immersing the hands into the product is not avoidable (e.g. maintenance work) a butyl or fluorocarbon rubber glove should be used. When skin exposure may occur to materials specified in section 3 of this SDS, advice should be sought from the glove supplier as to appropriate type to use with this product and the permeation breakthrough times. Care should be taken when working with sharp edged articles as these can easily damage the gloves and make them ineffective. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. Damaged gloves or those showing signs of wear should be replaced immediately.

Skin and body protection
Wear suitable protective clothing. Personnel should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber.

Hygiene measures
Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use organic solvents!

9. Physical and chemical properties

Appearance

Form : liquid Colour: clear Odor Threshold : no data available

pH	not applicable	
Freezing point	Not applicable.	
Boiling point	152 °C	
Flash point	17 °C	
Evapouration rate	Slower than Ether	
Flammability		
Upper explosion limit	10.3 %	
Lower explosion limit	1.1 %	
Vapour pressure	4.9 hPa	
Solubility(ies)	partly miscible	
Vapour density	no data available	
Density	1.04 g/cm^3	DIN 53217/ISO 2811
Partition coefficient: n-octanol/water	no data available	
Ignition temperature	393 °C	DIN 51794
Decomposition temperature		
Viscosity (23 °C)	Not applicable.	ISO 2431-1993

10. Stability and reactivity

Stability
Stable

Hazardous polymerisation
Will not occur.

Conditions to avoid
Stable under recommended storage and handling conditions (see section 7).

Materials to avoid
Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Hazardous decomposition products
When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

11. Toxicological information

Information on likely routes of exposure

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. If this product mixed with an isocyanate activator/hardener (see MSDS for the activator), the following health effects may apply: Exposure to isocyanates may cause respiratory sensitization. This effect may be permanent. Symptoms include an asthma-like reaction with shortness of breath, wheezing, cough or permanent lung sensitization. This effect may be delayed for several hours after exposure. Repeated overexposure to isocyanates may cause a decrease in lung function, which may be permanent. Individuals with lung or breathing problems or prior reactions to isocyanates must not be exposed to vapors or spray mist of this product.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Delayed and immediate effects and also chronic effects from short and long term exposure:

Acute oral toxicity
not hazardous

Acute dermal toxicity
not hazardous

Acute inhalation toxicity
not hazardous

% of unknown composition 0 %

Skin corrosion/irritation

n-butyl acetate	Category 3
heptan-2-one	Category 2
ethyl acetate	Category 3
1,2,4-trimethylbenzene	Category 2

Serious eye damage/eye irritation
Not classified according to GHS criteria

Respiratory sensitisation
Not classified according to GHS criteria

Skin sensitisation
not hazardous

Germ cell mutagenicity
Not classified according to GHS criteria

Carcinogenicity
Not classified according to GHS criteria

Toxicity for reproduction
Not classified according to GHS criteria

Target Organ Systemic Toxicant - Single exposure
Not classified according to GHS criteria

Target Organ Systemic Toxicant - Repeated exposure
Not classified according to GHS criteria

Aspiration toxicity
Not classified according to GHS criteria

Numerical measures of toxicity (acute toxicity estimation (ATE),etc.)
No information available.

Symptoms related to the physical, chemical and toxicological characteristics
Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Through skin resorbtion, solvents can cause some of the effects described here. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.

12. Ecological information

Product does not contain any environmentally hazardous substances and product is not classified per GHS

Ecotoxicity effects
There are no data available on the product itself. The product should not be allowed to enter drains or watercourses.

Persistence and degradability
No information available.

Bioaccumulation
No information available.

Mobility in soil
No information available.

Other adverse effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods
Dispose of in accordance with local regulations.

Disposal considerations
A disposal process that converts the waste into energy is recommended. If this is not possible the hazardous waste must be disposed of by incineration.

14. Transport information

NZS5433

Proper shipping name:	RESIN SOLUTION
UN number:	1866
Hazard Class:	3
Packing group:	II
Hazchem Code:	3YE

IMDG (Sea transport)

Proper shipping name:	RESIN SOLUTION
UN number:	1866
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	II
Marine Pollutant:	no
EmS:	F-E,S-E

ICAO/IATA (Air transport)

Proper shipping name:	RESIN SOLUTION
UN number:	1866
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	II

Matters needing attention for transportation
Confirm that there is no breakage, corrosion, or leakage from the container before shipping. Be sure to prevent damage to cargo by loading so as to avoid falling, dropping, or collapse. Ship in appropriate containers with denotation of the content in accordance with the relevant statutes and rules.

15. Regulatory information

National regulatory information

HSNO Approval Code	HSR002662
HSNO Control A	This product must be under the control of an approved handler during use.
HSNO Classification	
Skin corrosion/irritation	Category 6.3B
Flammable liquids	Category 3.1B

16. Other information

Revision Note

Version	Changes
1.0	
Revision Date:	2015-01-29
B12822811	

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.

End of Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking

Product name	18025E Imron Marine Balancer
Product code	18025E

Intended use of the substance/preparation
Intermediate

Supplier	Axalta Coating Systems Australia Pty Limited
Street address	15 - 23 Melbourne Road, Riverstone NSW 2765, Australia
Telephone	
Telefax	

Emergency Information

Emergency telephone number	+(64) 9801 0034 NZ Poisons Information Centre: 0800 764 766 or +(64) 3 479 7248
Importer	Resene Automotive & Light Industrial
Street/Box	4 Te Apunga Place, Mt Wellington, Auckland, NZ
Nat.-Code/Postal code/City	
Telephone	+64 (09) 259 2738
Date of preparation	2015-01-29

2. Hazards identification

Classified as a Dangerous Good according to NZS 5433
Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001

HSNO Classification

Flammable liquids	Category 3.1B
Acute inhalation toxicity	Category 6.1E
Skin corrosion/irritation	Category 6.3B
Serious eye damage/eye irritation	Category 6.4A
Acute aquatic toxicity	Category 9.1C

Endpoints which are “”not classified“”, “”cannot classified“” and “”not applicable“” are not shown

GHS-Labelling

Hazard symbols	
Signal word	Danger
Hazard statements	Highly flammable liquid and vapour. May be harmful if inhaled. Causes mild skin irritation. Causes serious eye irritation. Harmful to aquatic life.
Precautionary statements	Wear eye protection/ face protection. Avoid release to the environment. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. If eye irritation persists: Get medical advice/ attention. Store in a well-ventilated place. Keep cool.

Other hazards which do not result in classification
None known.

3. Composition/information on ingredients

Pure substance/mixture
Mixture

CAS-No.	Chemical Name	Concentration	GHS Hazardous
110-43-0	heptan-2-one	20 - 30%	√
141-78-6	ethyl acetate	10 - 20%	√

Non-regulated ingredients 60 - 70%

4. First aid measures

Eye contact
Remove contact lenses. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Seek medical advice.

Skin contact
Do NOT use solvents or thinners. Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. If skin irritation persists, call a physician.

Inhalation
Avoid inhalation of vapour or mist. Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

Ingestion
If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting. Keep at rest.

Most Important Symptoms/effects, acute and delayed

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. If this product mixed with an isocyanate activator/hardener (see MSDS for the activator), the following health effects may apply: Exposure to isocyanates may cause respiratory sensitization. This effect may be permanent. Symptoms include an asthma-like reaction with shortness of breath, wheezing, cough or permanent lung sensitization. This effect may be delayed for several hours after exposure. Repeated overexposure to isocyanates may cause a decrease in lung function, which may be permanent. Individuals with lung or breathing problems or prior reactions to isocyanates must not be exposed to vapors or spray mist of this product.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis. If this product is mixed with an isocyanate, skin contact may cause sensitization.

Notes to physician
No data available on the product. See section 3 and 11 for hazardous ingredients found in the product.

5. Firefighting measures

Suitable extinguishing media
Universal aqueous film-forming foam, Carbon dioxide (CO2), Dry chemical, Water spray.

Extinguishing media which shall not be used for safety reasons
High volume water jet

Specific hazards
Flammable liquid. Vapours may form explosive mixtures with air. Remove all sources of ignition. Solvent vapours are heavier than air and may spread along floors. Do not allow run-off from fire fighting to enter drains or water courses. Never use pressure to empty container: container is not a pressure vessel. Always keep in containers of same material as the original one.

Special Protective Equipment and Fire Fighting Procedures
Wear as appropriate: Full protective flameproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. In the event of fire, cool tanks with water spray.

6. Accidental release measures

Personal precautions
Keep in a well-ventilated place. Keep away from sources of ignition. Comply with safety directives (see chapters 7 and 8). Do not inhale vapours.

Environmental precautions
Do not let product enter drains. Notify the respective authorities in accordance with local law in the case of contamination of rivers, lakes or waste water systems.

Methods for cleaning up
Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations. Clean preferably with a detergent; avoid use of solvents.

7. Handling and storage

Safe handling advice
Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation may charge electrostatically: always use grounded leads when transferring from one container to another. Operators should wear antistatic footwear and clothing. No sparking tools should be used. Avoid skin and eye contact. Do not breathe vapours or spray mist. Smoking, eating and drinking should be prohibited in the application area.

Storage
Suitable storage conditions
Observe label precautions. Store between 5 and 25 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Suitable container and packaging materials for safe storage
Always keep in containers made of the same material as the supply container.

8. Exposure controls/personal protection

National occupational exposure limits
Workplace Exposure Standards (WESs) 2002

Chemical Name		
heptan-2-one	TWA	50 ppm
	TWA	233 mg/m3
ethyl acetate	TWA	200 ppm
	TWA	720 mg/m3

Engineering measures
Provide adequate ventilation. This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

Protective equipment
Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

Respiratory protection
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Eye protection
Wear protective eyewear for protection against solvent spatter.

Hand protection
The breakthrough time of gloves is unknown for the product itself. The glove material given is recommended on basis of the substances in the preparation.

Chemical Name	Glove material	Glove thickness	Break through time
ethyl acetate	Nitrile rubber	0.33 mm	10 min
	Viton (R) ®	0.7 mm	480 min

The protective glove should be checked in each case for their work specific suitability (e.g. mechanical stability, product compatibility, and anti-static properties). When the intended use is for spray application a nitrile glove of the chemical resistance group 3 (e.g. Dermatril® glove) is to be used. After contamination, the glove has to be changed. If immersing the hands into the product is not avoidable (e.g. maintenance work) a butyl or fluorocarbon rubber glove should be used. When skin exposure may occur to materials specified in section 3 of this SDS, advice should be sought from the glove supplier as to appropriate type to use with this product and the permeation breakthrough times. Care should be taken when working with sharp edged articles as these can easily damage the gloves and make them ineffective. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. Damaged gloves or those showing signs of wear should be replaced immediately.

Skin and body protection
Wear suitable protective clothing. Personnel should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber.

Hygiene measures
Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use organic solvents!

9. Physical and chemical properties

Appearance

Form : liquid Colour: clear Odor Threshold : no data available

pH	not applicable	
Freezing point	Not applicable.	
Boiling point	77 °C	
Flash point	10 °C	
Evapouration rate	Slower than Ether	
Flammability		
Upper explosion limit	11 %	
Lower explosion limit	1.1 %	
Vapour pressure	11.5 hPa	
Solubility(ies)	moderate	
Vapour density	no data available	
Density	0.99 g/cm^3	DIN 53217/ISO 2811
Partition coefficient: n-octanol/water	no data available	

Ignition temperature	393 °C	DIN 51794
Decomposition temperature		
Viscosity (23 °C)	Not applicable.	ISO 2431-1993

10. Stability and reactivity

Stability
Stable

Hazardous polymerisation
Will not occur.

Conditions to avoid
Stable under recommended storage and handling conditions (see section 7).

Materials to avoid
Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Hazardous decomposition products
When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

11. Toxicological information

Information on likely routes of exposure

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. If this product mixed with an isocyanate activator/hardener (see MSDS for the activator), the following health effects may apply: Exposure to isocyanates may cause respiratory sensitization. This effect may be permanent. Symptoms include an asthma-like reaction with shortness of breath, wheezing, cough or permanent lung sensitization. This effect may be delayed for several hours after exposure. Repeated overexposure to isocyanates may cause a decrease in lung function, which may be permanent. Individuals with lung or breathing problems or prior reactions to isocyanates must not be exposed to vapors or spray mist of this product.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Delayed and immediate effects and also chronic effects from short and long term exposure:

Acute oral toxicity
not hazardous

Acute dermal toxicity
not hazardous

Acute inhalation toxicity

heptan-2-one Category 4

% of unknown composition 0 %

Skin corrosion/irritation

heptan-2-one	Category 2
ethyl acetate	Category 3

Serious eye damage/eye irritation

heptan-2-one	Category 2B
ethyl acetate	Category 2A

Respiratory sensitisation
Not classified according to GHS criteria

Skin sensitisation
not hazardous

Germ cell mutagenicity
not hazardous

Carcinogenicity
Not classified according to GHS criteria

Toxicity for reproduction
Not classified according to GHS criteria

Target Organ Systemic Toxicant - Single exposure
Not classified according to GHS criteria

Target Organ Systemic Toxicant - Repeated exposure
not hazardous

Aspiration toxicity
Not classified according to GHS criteria

Numerical measures of toxicity (acute toxicity estimation (ATE),etc.)
No information available.

Symptoms related to the physical, chemical and toxicological characteristics
Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Through skin resorbtion, solvents can cause some of the effects described here. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.

12. Ecological information

Product contains environmentally hazardous substances and product is not classified per GHS.

Ecotoxicity effects
There are no data available on the product itself. The product should not be allowed to enter drains or watercourses.

Acute aquatic toxicity

heptan-2-one	Category 3

Chronic aquatic toxicity

% of unknown composition 0%

Persistence and degradability
No information available.

Bioaccumulation
No information available.

Mobility in soil
No information available.

Other adverse effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods
Dispose of in accordance with local regulations.

Disposal considerations
A disposal process that converts the waste into energy is recommended. If this is not possible the hazardous waste must be disposed of by incineration.

14. Transport information

NZS5433

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Packing group:	II
Hazchem Code:	3YE

IMDG (Sea transport)

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	II
Marine Pollutant:	no
EmS:	F-E,S-E

ICAO/IATA (Air transport)

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	II

Matters needing attention for transportation
Confirm that there is no breakage, corrosion, or leakage from the container before shipping. Be sure to prevent damage to cargo by loading so as to avoid falling, dropping, or collapse. Ship in appropriate containers with denotation of the content in accordance with the relevant statutes and rules.

15. Regulatory information

National regulatory information

HSNO Approval Code	HSR002662
HSNO Control A	This product must be under the control of an approved handler during use.
HSNO Classification	
Acute inhalation toxicity	Category 6.1E
Skin corrosion/irritation	Category 6.3B
Serious eye damage/eye irritation	Category 6.4A
Flammable liquids	Category 3.1B
Acute aquatic toxicity	Category 9.1C

16. Other information

Revision Note

Version	Changes
1.0	
Revision Date:	2015-01-29
B12822827	

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.

End of Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking

Product name	18040S Imron Marine Slow Reducer
Product code	18040S

Intended use of the substance/preparation
Solvent for professional use

Supplier	Axalta Coating Systems Australia Pty Limited
Street address	15 - 23 Melbourne Road, Riverstone NSW 2765, Australia
Telephone	
Telefax	

Emergency Information

Emergency telephone number	+(64) 9801 0034 NZ Poisons Information Centre: 0800 764 766 or +(64) 3 479 7248
Importer	Resene Automotive & Light Industrial
Street/Box	4 Te Apunga Place, Mt Wellington, Auckland, NZ
Nat.-Code/Postal code/City	
Telephone	+64 (09) 259 2738
Date of preparation	2015-01-29

2. Hazards identification

Classified as a Dangerous Good according to NZS 5433
Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001

HSNO Classification

Flammable liquids	Category 3.1C
Skin corrosion/irritation	Category 6.3A
Serious eye damage/eye irritation	Category 6.4A
Acute aquatic toxicity	Category 9.1C
Chronic aquatic toxicity	Category 9.1C

Endpoints which are “”not classified“”, “”cannot classified“” and “”not applicable“” are not shown

GHS-Labelling

Hazard symbols	
Signal word	Warning
Hazard statements	Flammable liquid and vapour. Causes skin irritation. Causes serious eye irritation. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.
Precautionary statements	Avoid release to the environment. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Wear protective gloves/protective clothing/eye protection/face protection. If eye irritation persists: Get medical advice/ attention. Store in a well-ventilated place. Keep cool.

Other hazards which do not result in classification
None known.

3. Composition/information on ingredients

Pure substance/mixture
Mixture

CAS-No.	Chemical Name	Concentration	GHS Hazardous
103-09-3	2-ethylhexyl acetate	70 - 80%	√
110-43-0	heptan-2-one	10 - 20%	√
763-69-9	ethyl 3-ethoxypropionate	3 - 5%	√
141-78-6	ethyl acetate	1 - 3%	√

Non-regulated ingredients 0.0 - 0.1%

4. First aid measures

Eye contact
Remove contact lenses. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Seek medical advice.

Skin contact
Do NOT use solvents or thinners. Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. If skin irritation persists, call a physician.

Inhalation
Avoid inhalation of vapour or mist. Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

Ingestion
If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting. Keep at rest.

Most Important Symptoms/effects, acute and delayed

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Notes to physician
No data available on the product. See section 3 and 11 for hazardous ingredients found in the product.

5. Firefighting measures

Suitable extinguishing media
Universal aqueous film-forming foam, Carbon dioxide (CO2), Dry chemical, Water spray.

Extinguishing media which shall not be used for safety reasons
High volume water jet

Specific hazards
The product is not flammable. Avoid heating above flash point. Do not allow run-off from fire fighting to enter drains or water courses. Never use pressure to empty container: container is not a pressure vessel. Always keep in containers of same material as the original one.

Special Protective Equipment and Fire Fighting Procedures
Wear as appropriate: Full protective flameproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. In the event of fire, cool tanks with water spray.

6. Accidental release measures

Personal precautions
Keep in a well-ventilated place. Keep away from sources of ignition. Comply with safety directives (see chapters 7 and 8). Do not inhale vapours.

Environmental precautions
Do not let product enter drains. Notify the respective authorities in accordance with local law in the case of contamination of rivers, lakes or waste water systems.

Methods for cleaning up
Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations. Clean preferably with a detergent; avoid use of solvents.

7. Handling and storage

Safe handling advice
Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation may charge electrostatically: always use grounded leads when transferring from one container to another. Operators should wear antistatic footwear and clothing. No sparking tools should be used. Avoid skin and eye contact. Do not breathe vapours or spray mist. Smoking, eating and drinking should be prohibited in the application area.

Storage
Suitable storage conditions
Observe label precautions. Store between 5 and 25 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Suitable container and packaging materials for safe storage
Always keep in containers made of the same material as the supply container.

8. Exposure controls/personal protection

National occupational exposure limits
Workplace Exposure Standards (WESs) 2002

Chemical Name		
heptan-2-one	TWA	50 ppm
	TWA	233 mg/m3
ethyl acetate	TWA	200 ppm
	TWA	720 mg/m3

Engineering measures
Provide adequate ventilation. This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

Protective equipment
Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

Respiratory protection
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Eye protection
Wear protective eyewear for protection against solvent spatter.

Hand protection
The breakthrough time of gloves is unknown for the product itself. The glove material given is recommended on basis of the substances in the preparation.

Chemical Name	Glove material	Glove thickness	Break through time
ethyl acetate	Nitrile rubber	0.33 mm	10 min
	Viton (R) ®	0.7 mm	480 min

The protective glove should be checked in each case for their work specific suitability (e.g. mechanical stability, product compatibility, and anti-static properties). When the intended use is for spray application a nitrile glove of the chemical resistance group 3 (e.g. Dermatril® glove) is to be used. After contamination, the glove has to be changed. If immersing the hands into the product is not avoidable (e.g. maintenance work) a butyl or fluorocarbon rubber glove should be used. When skin exposure may occur to materials specified in section 3 of this SDS, advice should be sought from the glove supplier as to appropriate type to use with this product and the permeation breakthrough times. Care should be taken when working with sharp edged articles as these can easily damage the gloves and make them ineffective. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. Damaged gloves or those showing signs of wear should be replaced immediately.

Skin and body protection
Wear suitable protective clothing. Personnel should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber.

Hygiene measures
Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use organic solvents!

9. Physical and chemical properties

Appearance

Form : liquid Colour: clear Odor Threshold : no data available

pH	not applicable	
Freezing point	Not applicable.	
Boiling point	152 °C	
Flash point	49 °C	
Evapouration rate	Slower than Ether	
Flammability		
Upper explosion limit	7.9 %	
Lower explosion limit	1.1 %	
Vapour pressure	2.9 hPa	
Solubility(ies)	moderate	
Vapour density	no data available	
Density	0.87 g/cm^3	DIN 53217/ISO 2811
Partition coefficient: n-octanol/water	no data available	

Ignition temperature	268 °C	DIN 51794
Decomposition temperature		
Viscosity (23 °C)	Not applicable.	ISO 2431-1993

10. Stability and reactivity

Stability
Stable

Hazardous polymerisation
Will not occur.

Conditions to avoid
Stable under recommended storage and handling conditions (see section 7).

Materials to avoid
Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Hazardous decomposition products
When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

11. Toxicological information

Information on likely routes of exposure

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Delayed and immediate effects and also chronic effects from short and long term exposure:

Acute oral toxicity
not hazardous

Acute dermal toxicity
not hazardous

Acute inhalation toxicity
not hazardous

% of unknown composition 0 %

Skin corrosion/irritation

2-ethylhexyl acetate	Category 2
heptan-2-one	Category 2
ethyl 3-ethoxypropionate	Category 3
ethyl acetate	Category 3

Serious eye damage/eye irritation

2-ethylhexyl acetate	Category 2B
heptan-2-one	Category 2B
ethyl acetate	Category 2A

Respiratory sensitisation
Not classified according to GHS criteria

Skin sensitisation
Not classified according to GHS criteria

Germ cell mutagenicity
not hazardous

Carcinogenicity
Not classified according to GHS criteria

Toxicity for reproduction
Not classified according to GHS criteria

Target Organ Systemic Toxicant - Single exposure
Not classified according to GHS criteria

Target Organ Systemic Toxicant - Repeated exposure
not hazardous

Aspiration toxicity
Not classified according to GHS criteria

Numerical measures of toxicity (acute toxicity estimation (ATE),etc.)
No information available.

Symptoms related to the physical, chemical and toxicological characteristics
Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Through skin resorbtion, solvents can cause some of the effects described here. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.

12. Ecological information

Product contains environmentally hazardous substances and product is not classified per GHS.

Ecotoxicity effects
There are no data available on the product itself. The product should not be allowed to enter drains or watercourses.

Acute aquatic toxicity

2-ethylhexyl acetate	Category 3
heptan-2-one	Category 3
ethyl 3-ethoxypropionate	Category 3

Chronic aquatic toxicity

2-ethylhexyl acetate	Category 3

% of unknown composition 0%

Persistence and degradability
No information available.

Bioaccumulation
No information available.

Mobility in soil
No information available.

Other adverse effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods
Dispose of in accordance with local regulations.

Disposal considerations
A disposal process that converts the waste into energy is recommended. If this is not possible the hazardous waste must be disposed of by incineration.

14. Transport information

NZS5433

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Packing group:	III
Hazchem Code:	3Y

IMDG (Sea transport)

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	III
Marine Pollutant:	no
EmS:	F-E,S-E

ICAO/IATA (Air transport)

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	III

Matters needing attention for transportation
Confirm that there is no breakage, corrosion, or leakage from the container before shipping. Be sure to prevent damage to cargo by loading so as to avoid falling, dropping, or collapse. Ship in appropriate containers with denotation of the content in accordance with the relevant statutes and rules.

15. Regulatory information

National regulatory information

HSNO Approval Code	HSR002662
HSNO Classification	
Skin corrosion/irritation	Category 6.3A
Serious eye damage/eye irritation	Category 6.4A
Flammable liquids	Category 3.1C
Acute aquatic toxicity	Category 9.1C
Chronic aquatic toxicity	Category 9.1C

16. Other information

Revision Note

Version	Changes
1.0	
Revision Date:	2015-01-29
B12822841	

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.

End of Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking

Product name	18060S Imron Marine Solid Color Additive
Product code	18060S

Intended use of the substance/preparation
Intermediate

Supplier	Axalta Coating Systems Australia Pty Limited
Street address	15 - 23 Melbourne Road, Riverstone NSW 2765, Australia
Telephone	
Telefax	

Emergency Information

Emergency telephone number	+(64) 9801 0034 NZ Poisons Information Centre: 0800 764 766 or +(64) 3 479 7248
Importer	Resene Automotive & Light Industrial
Street/Box	4 Te Apunga Place, Mt Wellington, Auckland, NZ
Nat.-Code/Postal code/City	
Telephone	+64 (09) 259 2738
Date of preparation	2015-01-29

2. Hazards identification

Classified as a Dangerous Good according to NZS 5433
Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001

HSNO Classification

Flammable liquids	Category 3.1B
Skin corrosion/irritation	Category 8.2B
Serious eye damage/eye irritation	Category 8.3A
Skin sensitisation	Category 6.5B
Toxicity for reproduction	Category 6.8A
Acute aquatic toxicity	Category 9.1B
Chronic aquatic toxicity	Category 9.1B

Endpoints which are “”not classified“”, “”cannot classified“” and “”not applicable“” are not shown

GHS-Labelling

Hazard symbols

Signal word	Danger
Hazard statements	Highly flammable liquid and vapour. Causes severe skin burns and eye damage. Causes serious eye damage. May cause an allergic skin reaction. May damage fertility or the unborn child. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.
Precautionary statements	Avoid release to the environment. Do not breathe dust or mist. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed.

Obtain special instructions before use.
Wear protective gloves/protective clothing/eye protection/face protection.
Collect spillage.
IF exposed or concerned: Get medical advice/ attention.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
If skin irritation or rash occurs: Get medical advice/ attention.
IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
Immediately call a POISON CENTER or doctor/ physician.
Store in a well-ventilated place. Keep cool.

Other hazards which do not result in classification
Contains: dibutylbis((1-oxododecyl)oxy)stannane. May produce an allergic reaction.

3. Composition/information on ingredients

Pure substance/mixture
Mixture

CAS-No.	Chemical Name	Concentration	GHS Hazardous
67-64-1	acetone	40 - 50%	√
143860-04-2	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	5 - 10%	√
41556-26-7	bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	5 - 10%	√
141-78-6	ethyl acetate	5 - 10%	√
110-43-0	heptan-2-one	5 - 10%	√
127519-17-9	Benzenepropanoic acid, 3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxy-, C7-9-branched and linear alkyl esters	5 - 10%	√
142-82-5	heptane (mixture of isomers)	3 - 5%	√
61788-93-0	amines, coco alkyldimethyl	1 - 3%	√
82919-37-7	methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	1 - 3%	√
78-93-3	butanone	1 - 3%	√
95-63-6	1,2,4-trimethylbenzene	0.3 - 1.0%	√
110-12-3	5-methylhexan-2-one	0.3 - 1.0%	√
108-65-6	2-methoxy-1-methylethyl acetate	0.3 - 1.0%	√
123-86-4	n-butyl acetate	0.1 - 0.3%	√
77-58-7	dibutylbis((1-oxododecyl)oxy)stannane	0.1 - 0.3%	√
108-87-2	methylcyclohexane	0.0 - 0.1%	√

Non-regulated ingredients 1 - 5%

4. First aid measures

Eye contact
Remove contact lenses. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Seek medical advice.

Skin contact
Do NOT use solvents or thinners. Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. If skin irritation persists, call a physician.

Inhalation
Avoid inhalation of vapour or mist. Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

Ingestion
If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting. Keep at rest.

Most Important Symptoms/effects, acute and delayed

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Notes to physician
No data available on the product. See section 3 and 11 for hazardous ingredients found in the product.

5. Firefighting measures

Suitable extinguishing media
Universal aqueous film-forming foam, Carbon dioxide (CO2), Dry chemical, Water spray.

Extinguishing media which shall not be used for safety reasons
High volume water jet

Specific hazards
Flammable liquid. Vapours may form explosive mixtures with air. Remove all sources of ignition. Solvent vapours are heavier than air and may spread along floors. Do not allow run-off from fire fighting to enter drains or water courses. Never use pressure to empty container: container is not a pressure vessel. Always keep in containers of same material as the original one.

Special Protective Equipment and Fire Fighting Procedures
Wear as appropriate: Full protective flameproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. In the event of fire, cool tanks with water spray.

6. Accidental release measures

Personal precautions
Keep in a well-ventilated place. Keep away from sources of ignition. Comply with safety directives (see chapters 7 and 8). Do not inhale vapours.

Environmental precautions
Do not let product enter drains. Notify the respective authorities in accordance with local law in the case of contamination of rivers, lakes or waste water systems.

Methods for cleaning up
Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations. Clean preferably with a detergent; avoid use of solvents.

7. Handling and storage

Handling
Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Safe handling advice
Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation may charge electrostatically: always use grounded leads when transferring from one container to another. Operators should wear antistatic footwear and clothing. No sparking tools should be used. Avoid skin and eye contact. Do not breathe vapours or spray mist. Smoking, eating and drinking should be prohibited in the application area.

Storage
Suitable storage conditions
Observe label precautions. Store between 5 and 25 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Suitable container and packaging materials for safe storage
Always keep in containers made of the same material as the supply container.

8. Exposure controls/personal protection

Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

National occupational exposure limits
Workplace Exposure Standards (WESs) 2002

Chemical Name		
acetone	TWA	500 ppm
	STEL	1,000 ppm
	STEL	2,375 mg/m3
	TWA	1,185 mg/m3
ethyl acetate	TWA	200 ppm
	TWA	720 mg/m3
heptan-2-one	TWA	50 ppm
	TWA	233 mg/m3
heptane (mixture of isomers)	TWA	400 ppm
	STEL	500 ppm
	STEL	2,050 mg/m3
	TWA	1,640 mg/m3
butanone	TWA	150 ppm
	STEL	300 ppm
	STEL	890 mg/m3

Chemical Name		
	TWA	445 mg/m3
1,2,4-trimethylbenzene	TWA	25 ppm
	TWA	123 mg/m3
5-methylhexan-2-one	TWA	50 ppm
	TWA	234 mg/m3
n-butyl acetate	TWA	150 ppm
	STEL	200 ppm
	STEL	950 mg/m3
	TWA	713 mg/m3
dibutylbis((1-oxododecyl)oxy)stannane	STEL	0.2 mg/m3
	TWA	0.1 mg/m3
methylcyclohexane	TWA	400 ppm
	TWA	1,610 mg/m3

Engineering measures
Provide adequate ventilation. This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

Protective equipment
Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

Respiratory protection
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Eye protection
Wear protective eyewear for protection against solvent spatter.

Hand protection
The breakthrough time of gloves is unknown for the product itself. The glove material given is recommended on basis of the substances in the preparation.

Chemical Name	Glove material	Glove thickness	Break through time
ethyl acetate	Nitrile rubber	0.33 mm	10 min
	Viton (R) ®	0.7 mm	480 min
butanone	Viton (R) ®	0.7 mm	10 min
n-butyl acetate	Viton (R) ®	0.7 mm	10 min
	Nitrile rubber	0.33 mm	30 min

The protective glove should be checked in each case for their work specific suitability (e.g. mechanical stability, product compatibility, and anti-static properties). When the intended use is for spray application a nitrile glove of the chemical resistance group 3 (e.g. Dermatril® glove) is to be used. After contamination, the glove has to be changed. If immersing the hands into the product is not avoidable (e.g. maintenance work) a butyl or fluorocarbon rubber glove should be used. When skin exposure may occur to materials specified in section 3 of this SDS, advice should be sought from the glove supplier as to appropriate type to use with this product and the permeation breakthrough times. Care should be taken when working with sharp edged articles as these can easily damage the gloves and make them ineffective. The instructions and information provided by the glove supplier

on use, storage, maintenance and replacement must be followed. Damaged gloves or those showing signs of wear should be replaced immediately.

Skin and body protection
Wear suitable protective clothing. Personnel should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber.

Hygiene measures
Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use organic solvents!

9. Physical and chemical properties

Appearance

Form : liquid Colour: clear Odor Threshold : no data available

pH	No data available.	
Freezing point	Not applicable.	
Boiling point	77 °C	
Flash point	-19 °C	
Evapouration rate	Slower than Ether	
Flammability		
Upper explosion limit	12.8 %	
Lower explosion limit	1.1 %	
Vapour pressure	124.5 hPa	
Solubility(ies)	appreciable	
Vapour density	no data available	
Density	0.85 g/cm^3	DIN 53217/ISO 2811
Partition coefficient: n-octanol/water	no data available	
Ignition temperature	215 °C	DIN 51794
Decomposition temperature		
Viscosity (23 °C)	Not applicable.	ISO 2431-1993

10. Stability and reactivity

Stability
Stable

Hazardous polymerisation
Will not occur.

Conditions to avoid
Stable under recommended storage and handling conditions (see section 7).

Materials to avoid
Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Hazardous decomposition products
When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

11. Toxicological information

Information on likely routes of exposure

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Delayed and immediate effects and also chronic effects from short and long term exposure:

Acute oral toxicity
not hazardous

Acute dermal toxicity
not hazardous

Acute inhalation toxicity
not hazardous

% of unknown composition 0 %

Skin corrosion/irritation

acetone	Category 3
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	Category 1B
ethyl acetate	Category 3
heptan-2-one	Category 2
heptane (mixture of isomers)	Category 2
amines, coco alkyldimethyl	Category 1B
butanone	Category 3
1,2,4-trimethylbenzene	Category 2
5-methylhexan-2-one	Category 3
n-butyl acetate	Category 3
dibutylbis((1-oxododecyl)oxy)stannane	Category 1B
methylcyclohexane	Category 2

Serious eye damage/eye irritation

acetone	Category 2A
ethyl acetate	Category 2A
heptan-2-one	Category 2B
heptane (mixture of isomers)	Category 2A
amines, coco alkyldimethyl	Category 1
butanone	Category 2A
1,2,4-trimethylbenzene	Category 2A
5-methylhexan-2-one	Category 2A
2-methoxy-1-methylethyl acetate	Category 2A
dibutylbis((1-oxododecyl)oxy)stannane	Category 1

Respiratory sensitisation
Not classified according to GHS criteria

Skin sensitisation

bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	Category 1
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Category 1
dibutylbis((1-oxododecyl)oxy)stannane	Category 1

Germ cell mutagenicity
Not classified according to GHS criteria

Carcinogenicity
Not classified according to GHS criteria

Toxicity for reproduction

3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	Category 1B
dibutylbis((1-oxododecyl)oxy)stannane	Category 1A

Target Organ Systemic Toxicant - Single exposure
Not classified according to GHS criteria

Target Organ Systemic Toxicant - Repeated exposure
Not classified according to GHS criteria

Aspiration toxicity
Not classified according to GHS criteria

Numerical measures of toxicity (acute toxicity estimation (ATE),etc.)
No information available.

Symptoms related to the physical, chemical and toxicological characteristics
Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Through skin resorbtion, solvents can cause some of the effects described here. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.

12. Ecological information

Product contains environmentally hazardous substances and product is not classified per GHS.

Ecotoxicity effects
There are no data available on the product itself. The product should not be allowed to enter drains or watercourses.

Acute aquatic toxicity

3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	Category 1
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	Category 1
heptan-2-one	Category 3
Benzenepropanoic acid, 3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxy-, C7-9-branched and linear alkyl esters	Category 2
heptane (mixture of isomers)	Category 1
amines, coco alkyldimethyl	Category 1
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Category 1
1,2,4-trimethylbenzene	Category 2
n-butyl acetate	Category 3
dibutylbis((1-oxododecyl)oxy)stannane	Category 1
methylcyclohexane	Category 2

Chronic aquatic toxicity

3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	Category 1
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	Category 1
Benzenepropanoic acid, 3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxy-, C7-9-branched and linear alkyl esters	Category 2
heptane (mixture of isomers)	Category 1
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Category 1
1,2,4-trimethylbenzene	Category 2
dibutylbis((1-oxododecyl)oxy)stannane	Category 1
methylcyclohexane	Category 2

% of unknown composition 0%

Persistence and degradability
No information available.

Bioaccumulation
No information available.

Mobility in soil
No information available.

Other adverse effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods
Dispose of in accordance with local regulations.

Disposal considerations
A disposal process that converts the waste into energy is recommended. If this is not possible the hazardous waste must be disposed of by incineration.

14. Transport information

NZS5433

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Packing group:	II
Hazchem Code:	3YE

IMDG (Sea transport)

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	II
Marine Pollutant:	yes [bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate]
EmS:	F-E,S-E

ICAO/IATA (Air transport)

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	II

Matters needing attention for transportation
Confirm that there is no breakage, corrosion, or leakage from the container before shipping. Be sure to prevent damage to cargo by loading so as to avoid falling, dropping, or collapse. Ship in appropriate containers with denotation of the content in accordance with the relevant statutes and rules.

15. Regulatory information

National regulatory information

HSNO Approval Code	HSR002663
HSNO Control A	This product must be under the control of an approved handler during use.
HSNO Classification	
Skin corrosion/irritation	Category 8.2B
Serious eye damage/eye irritation	Category 8.3A
Skin sensitisation	Category 6.5B
Toxicity for reproduction	Category 6.8A
Flammable liquids	Category 3.1B
Acute aquatic toxicity	Category 9.1B
Chronic aquatic toxicity	Category 9.1B

16. Other information

Revision Note

Version	Changes
1.0	
Revision Date:	2015-01-29
B12822884	

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.

End of Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking

Product name	18100S Imron Polyurethane Activator
Product code	18100S

Intended use of the substance/preparation
Hardener for professional use

Supplier	Axalta Coating Systems Australia Pty Limited
Street address	15 - 23 Melbourne Road, Riverstone NSW 2765, Australia
Telephone	
Telefax	

Emergency Information

Emergency telephone number	+(64) 9801 0034 NZ Poisons Information Centre: 0800 764 766 or +(64) 3 479 7248
Importer	Resene Automotive & Light Industrial
Street/Box	4 Te Apunga Place, Mt Wellington, Auckland, NZ
Nat.-Code/Postal code/City	
Telephone	+64 (09) 259 2738
Date of preparation	2015-01-29

2. Hazards identification

Classified as a Dangerous Good according to NZS 5433
Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001

HSNO Classification

Flammable liquids	Category 3.1B
Skin corrosion/irritation	Category 6.3B
Serious eye damage/eye irritation	Category 6.4A
Respiratory sensitisation	Category 6.5A
Skin sensitisation	Category 6.5B

Endpoints which are “”not classified“”, “”cannot classified“” and “”not applicable“” are not shown

GHS-Labelling

Hazard symbols	
Signal word	Danger
Hazard statements	Highly flammable liquid and vapour. Causes mild skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Precautionary statements	In case of inadequate ventilation wear respiratory protection. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/ vapours/ spray. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician. If eye irritation persists: Get medical advice/ attention. IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

If skin irritation or rash occurs: Get medical advice/ attention.
Wash contaminated clothing before reuse.
Store in a well-ventilated place. Keep cool.

Other hazards which do not result in classification
Contains isocyanates. See information supplied by the manufacturer. Contains: hexamethylene-di-isocyanate. May produce an allergic reaction.

3. Composition/information on ingredients

Pure substance/mixture
Mixture

CAS-No.	Chemical Name	Concentration	GHS Hazardous
28182-81-2	Hexamethylene diisocyanate, oligomers	70 - 80%	√
141-78-6	ethyl acetate	10 - 20%	√
123-86-4	n-butyl acetate	5 - 10%	√
103-09-3	2-ethylhexyl acetate	3 - 5%	√
822-06-0	hexamethylene-di-isocyanate	0.1 - 0.3%	√

Non-regulated ingredients 0.0 - 0.1%

4. First aid measures

Eye contact
Remove contact lenses. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Seek medical advice.

Skin contact
Do NOT use solvents or thinners. Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. If skin irritation persists, call a physician.

Inhalation
Avoid inhalation of vapour or mist. Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

Ingestion
If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting. Keep at rest.

Most Important Symptoms/effects, acute and delayed

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. Exposure to isocyanates may cause respiratory sensitization. This effect may be permanent. Symptoms include an asthma-like reaction with shortness of breath, wheezing, cough or permanent lung sensitization. This effect may be delayed for several hours after exposure. Repeated overexposure to isocyanates may cause a decrease in lung function, which may be permanent. Individuals with lung or breathing problems or prior reactions to isocyanates must not be exposed to vapors or spray mist of this product.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis. Skin contact my cause skin sensitization.

Notes to physician
No data available on the product. See section 3 and 11 for hazardous ingredients found in the product.

5. Firefighting measures

Suitable extinguishing media
Universal aqueous film-forming foam, Carbon dioxide (CO2), Dry chemical, Water spray.

Extinguishing media which shall not be used for safety reasons
High volume water jet

Specific hazards
Flammable liquid. Vapours may form explosive mixtures with air. Remove all sources of ignition. Solvent vapours are heavier than air and may spread along floors. Do not allow run-off from fire fighting to enter drains or water courses. Never use pressure to empty container: container is not a pressure vessel. Always keep in containers of same material as the original one.

Special Protective Equipment and Fire Fighting Procedures
Wear as appropriate: Full protective flameproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. In the event of fire, cool tanks with water spray.

6. Accidental release measures

Personal precautions
Keep in a well-ventilated place. Keep away from sources of ignition. Comply with safety directives (see chapters 7 and 8). Do not inhale vapours.

Environmental precautions
Do not let product enter drains. Notify the respective authorities in accordance with local law in the case of contamination of rivers, lakes or waste water systems.

Methods for cleaning up
Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations. The contaminated area should be cleaned up immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): water (45 parts), ethanol or isopropyl alcohol (50 parts), concentrated (d : 0,880) ammonia solution (5 parts). A non-flammable alternative is sodium carbonate (5 parts), water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in non-sealed container. Once this stage is reached, close container and dispose according to local regulations (see section 13).

7. Handling and storage

Handling
Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Safe handling advice
Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation may charge electrostatically: always use grounded leads when transferring from one container to another. Operators should wear antistatic footwear and clothing. No sparking tools should be used. Avoid skin and eye contact. Do not breathe vapours or spray mist. Smoking, eating and drinking should be prohibited in the application area.

Storage
Suitable storage conditions
Observe label precautions. Store between 5 and 25 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Suitable container and packaging materials for safe storage
Always keep in containers made of the same material as the supply container.

8. Exposure controls/personal protection

Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

National occupational exposure limits
Workplace Exposure Standards (WESs) 2002

Chemical Name		
Hexamethylene diisocyanate, oligomers	STEL	0.07 mg/m3
	TWA	0.02 mg/m3
ethyl acetate	TWA	200 ppm
	TWA	720 mg/m3
n-butyl acetate	TWA	150 ppm
	STEL	200 ppm
	STEL	950 mg/m3
	TWA	713 mg/m3
hexamethylene-di-isocyanate	STEL	0.07 mg/m3
	TWA	0.02 mg/m3

Engineering measures
Provide adequate ventilation. Air-fed protective respiratory equipment must be worn by spray operator even when good ventilation is provided.

Protective equipment
Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

Respiratory protection
For spraying: air-fed respirator. For operations other than spraying: in well ventilated areas, air-fed respirators could be replaced by a combination of charcoal filter and particulate filter mask.

Eye protection
Wear protective eyewear for protection against solvent spatter.

Hand protection
The breakthrough time of gloves is unknown for the product itself. The glove material given is recommended on basis of the substances in the preparation.

Chemical Name	Glove material	Glove thickness	Break through time
ethyl acetate	Nitrile rubber	0.33 mm	10 min
	Viton (R) ®	0.7 mm	480 min
n-butyl acetate	Viton (R) ®	0.7 mm	10 min
	Nitrile rubber	0.33 mm	30 min

The protective glove should be checked in each case for their work specific suitability (e.g. mechanical stability, product compatibility, and anti-static properties). When the intended use is for spray application a nitrile glove of the chemical resistance

group 3 (e.g. Dermatril® glove) is to be used. After contamination, the glove has to be changed. If immersing the hands into the product is not avoidable (e.g. maintenance work) a butyl or fluorocarbon rubber glove should be used. When skin exposure may occur to materials specified in section 3 of this SDS, advice should be sought from the glove supplier as to appropriate type to use with this product and the permeation breakthrough times. Care should be taken when working with sharp edged articles as these can easily damage the gloves and make them ineffective. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. Damaged gloves or those showing signs of wear should be replaced immediately.

Skin and body protection
Wear suitable protective clothing. Personnel should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber.

Hygiene measures
Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use organic solvents!

9. Physical and chemical properties

Appearance

Form : liquid Colour: clear Odor Threshold : no data available

pH	not applicable	
Freezing point	Not applicable.	
Boiling point	77 °C	
Flash point	-7 °C	
Evapouration rate	Slower than Ether	
Flammability		
Upper explosion limit	11 %	
Lower explosion limit	1.2 %	
Vapour pressure	14.5 hPa	
Solubility(ies)	moderate	
Vapour density	no data available	
Density	1.07 g/cm^3	DIN 53217/ISO 2811
Partition coefficient: n-octanol/water	no data available	
Ignition temperature	268 °C	DIN 51794
Decomposition temperature		
Viscosity (23 °C)	Not applicable.	ISO 2431-1993

10. Stability and reactivity

Stability
Stable

Hazardous polymerisation
Will not occur.

Conditions to avoid
Stable under recommended storage and handling conditions (see section 7).

Materials to avoid
Keep away from oxidising agents and strongly acid or alkaline materials. Amines and alcohols cause exothermic reactions. Mixture reacts slowly with water resulting in evolution of CO2. Evolution of CO2 in closed containers causes overpressure and produces a risk of bursting.

Hazardous decomposition products
When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen as well as hydrogen cyanide, amines, alcohols and water.

11. Toxicological information

Information on likely routes of exposure

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. Exposure to isocyanates may cause respiratory sensitization. This effect may be permanent. Symptoms include an asthma-like reaction with shortness of breath, wheezing, cough or permanent lung sensitization. This effect may be delayed for several hours after exposure. Repeated overexposure to isocyanates may cause a decrease in lung function, which may be permanent. Individuals with lung or breathing problems or prior reactions to isocyanates must not be exposed to vapors or spray mist of this product.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Delayed and immediate effects and also chronic effects from short and long term exposure:

Acute oral toxicity
not hazardous

Acute dermal toxicity
not hazardous

Acute inhalation toxicity
Not classified according to GHS criteria

% of unknown composition 0 %

Skin corrosion/irritation

ethyl acetate	Category 3
n-butyl acetate	Category 3
2-ethylhexyl acetate	Category 2
hexamethylene-di-isocyanate	Category 1C

Serious eye damage/eye irritation

ethyl acetate	Category 2A
2-ethylhexyl acetate	Category 2B
hexamethylene-di-isocyanate	Category 1

Respiratory sensitisation

Hexamethylene diisocyanate, oligomers	Category 1
hexamethylene-di-isocyanate	Category 1

Skin sensitisation

Hexamethylene diisocyanate, oligomers	Category 1
hexamethylene-di-isocyanate	Category 1

Germ cell mutagenicity
not hazardous

Carcinogenicity
Not classified according to GHS criteria

Toxicity for reproduction
Not classified according to GHS criteria

Target Organ Systemic Toxicant - Single exposure
Not classified according to GHS criteria

Target Organ Systemic Toxicant - Repeated exposure
not hazardous

Aspiration toxicity
Not classified according to GHS criteria

Numerical measures of toxicity (acute toxicity estimation (ATE),etc.)
No information available.

Symptoms related to the physical, chemical and toxicological characteristics
Based on the properties of the isocyanate components and considering toxicological data on similar products, the following applies: This formulation may cause acute irritation and/or sensitization of the respiratory system leading to an asthmatic condition, wheeziness and a tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Repeated exposure may lead to permanent respiratory disability. Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Through skin resorbtion, solvents can cause some of the effects described here. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage. Components of the product may be absorbed into the body through the skin.

12. Ecological information

Product does not contain any environmentally hazardous substances and product is not classified per GHS

Ecotoxicity effects
There are no data available on the product itself. The product should not be allowed to enter drains or watercourses.

Persistence and degradability
No information available.

Bioaccumulation
No information available.

Mobility in soil
No information available.

Other adverse effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods
Dispose of in accordance with local regulations.

Disposal considerations
A disposal process that converts the waste into energy is recommended. If this is not possible the hazardous waste must be disposed of by incineration.

14. Transport information

NZS5433

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Packing group:	II
Hazchem Code:	3YE

IMDG (Sea transport)

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	II
Marine Pollutant:	no
EmS:	F-E,S-E

ICAO/IATA (Air transport)

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	II

Matters needing attention for transportation

Confirm that there is no breakage, corrosion, or leakage from the container before shipping. Be sure to prevent damage to cargo by loading so as to avoid falling, dropping, or collapse. Ship in appropriate containers with denotation of the content in accordance with the relevant statutes and rules.

15. Regulatory information

National regulatory information

HSNO Approval Code	HSR002662
HSNO Control A	This product must be under the control of an approved handler during use.
HSNO Classification	
Skin corrosion/irritation	Category 6.3B
Serious eye damage/eye irritation	Category 6.4A
Respiratory sensitisation	Category 6.5A
Skin sensitisation	Category 6.5B
Flammable liquids	Category 3.1B

16. Other information

Revision Note

Version	Changes
1.0	

Revision Date: 2015-01-29
B12822914

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.

End of Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking

Product name	18110S Activator for Epoxy Surfacer
Product code	18110S

Intended use of the substance/preparation
Hardener for professional use

Supplier	Axalta Coating Systems Australia Pty Limited
Street address	15 - 23 Melbourne Road, Riverstone NSW 2765, Australia
Telephone	
Telefax	

Emergency Information

Emergency telephone number	+(64) 9801 0034 NZ Poisons Information Centre: 0800 764 766 or +(64) 3 479 7248
Importer	Resene Automotive & Light Industrial
Street/Box	4 Te Apunga Place, Mt Wellington, Auckland, NZ
Nat.-Code/Postal code/City	
Telephone	+64 (09) 259 2738
Date of preparation	2015-01-29

2. Hazards identification

Classified as a Dangerous Good according to NZS 5433
Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001

HSNO Classification

Flammable liquids	Category 3.1C
Acute oral toxicity	Category 6.1E
Skin corrosion/irritation	Category 8.2B
Serious eye damage/eye irritation	Category 8.3A
Respiratory sensitisation	Category 6.5A
Skin sensitisation	Category 6.5B
Toxicity for reproduction	Category 6.8B
Acute aquatic toxicity	Category 9.1B
Chronic aquatic toxicity	Category 9.1B

Endpoints which are “”not classified“”, “”cannot classified“” and “”not applicable“” are not shown

GHS-Labelling

Hazard symbols

Signal word: Danger

Hazard statements:
Flammable liquid and vapour.
May be harmful if swallowed.
Causes severe skin burns and eye damage.
Causes serious eye damage.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.
Suspected of damaging fertility or the unborn child.
Toxic to aquatic life.
Toxic to aquatic life with long lasting effects.

Precautionary statements	Avoid release to the environment. Do not breathe dust or mist. In case of inadequate ventilation wear respiratory protection. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Obtain special instructions before use. Wear protective gloves/protective clothing/eye protection/face protection. Collect spillage. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician. IF exposed or concerned: Get medical advice/ attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. If skin irritation or rash occurs: Get medical advice/ attention. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/ physician. Store in a well-ventilated place. Keep cool.

Other hazards which do not result in classification
None known.

3. Composition/information on ingredients

Pure substance/mixture
Mixture

CAS-No.	Chemical Name	Concentration	GHS Hazardous
98-56-6	4-chloro-a,a,a-trifluorotoluene	20 - 30%	√
71-36-3	n-butanol	10 - 20%	√
84852-15-3	4-Nonylphenol, branched	5 - 10%	√
1330-20-7	xylene	5 - 10%	√
100-41-4	ethylbenzene	1 - 3%	√
107-15-3	ethylenediamine	1 - 3%	√
110-12-3	5-methylhexan-2-one	1 - 3%	√
79-20-9	methyl acetate	0.3 - 1.0%	√

Non-regulated ingredients 40 - 50%

4. First aid measures

Eye contact
Remove contact lenses. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Seek medical advice.

Skin contact
Do NOT use solvents or thinners. Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. If skin irritation persists, call a physician.

Inhalation
Avoid inhalation of vapour or mist. Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. If symptoms persist,

call a physician.

Ingestion
If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting. Keep at rest.

Most Important Symptoms/effects, acute and delayed

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Notes to physician
No data available on the product. See section 3 and 11 for hazardous ingredients found in the product.

5. Firefighting measures

Suitable extinguishing media
Universal aqueous film-forming foam, Carbon dioxide (CO2), Dry chemical, Water spray.

Extinguishing media which shall not be used for safety reasons
High volume water jet

Specific hazards
Flammable liquid. Vapours may form explosive mixtures with air. Remove all sources of ignition. Solvent vapours are heavier than air and may spread along floors. Do not allow run-off from fire fighting to enter drains or water courses. Never use pressure to empty container: container is not a pressure vessel. Always keep in containers of same material as the original one.

Special Protective Equipment and Fire Fighting Procedures
Wear as appropriate: Full protective flameproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. In the event of fire, cool tanks with water spray.

6. Accidental release measures

Personal precautions
Keep in a well-ventilated place. Keep away from sources of ignition. Comply with safety directives (see chapters 7 and 8). Do not inhale vapours.

Environmental precautions
Do not let product enter drains. Notify the respective authorities in accordance with local law in the case of contamination of rivers, lakes or waste water systems.

Methods for cleaning up
Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations. Clean preferably with a detergent; avoid use of solvents.

7. Handling and storage

Handling
Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Safe handling advice
Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation may charge electrostatically: always use grounded leads when transferring from one container to another. Operators should wear antistatic footwear and clothing. No sparking tools should be used. Avoid skin and eye contact. Do not breathe vapours or spray mist. Smoking, eating and drinking should be prohibited in the application area. During baking at temperatures above 400°C, small amounts of hydrogen fluoride can be evolved; these amounts increase as temperatures. Hydrogen fluoride vapours are very toxic and cause skin and eye irritation. Above 430°C an explosive reaction may occur if finely divided fluorocarbon comes into contact with metal powder (aluminium or magnesium). Operations such as grinding, buffing or grit blasting may generate such mixtures. Avoid any dust buildup with fluorocarbons and metal mixtures.

Storage
Suitable storage conditions
Observe label precautions. Store between 5 and 25 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Suitable container and packaging materials for safe storage
Always keep in containers made of the same material as the supply container.

8. Exposure controls/personal protection

Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

National occupational exposure limits
Workplace Exposure Standards (WESs) 2002

Chemical Name		
4-chloro-a,a,a-trifluorotoluene	TWA	2.5 mg/m3
n-butanol	CEIL	150 mg/m3
	CEIL	50 ppm
xylene	TWA	50 ppm
	TWA	217 mg/m3
ethylbenzene	TWA	100 ppm
	STEL	125 ppm
	STEL	543 mg/m3
	TWA	434 mg/m3
ethylenediamine	TWA	10 ppm
	TWA	25 mg/m3
5-methylhexan-2-one	TWA	50 ppm
	TWA	234 mg/m3
methyl acetate	TWA	200 ppm
	STEL	250 ppm
	STEL	757 mg/m3
	TWA	606 mg/m3

Engineering measures
Provide adequate ventilation. This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

Protective equipment
Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

Respiratory protection
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Eye protection
Wear protective eyewear for protection against solvent spatter.

Hand protection
The breakthrough time of gloves is unknown for the product itself. The glove material given is recommended on basis of the substances in the preparation.

Chemical Name	Glove material	Glove thickness	Break through time
n-butanol	Viton (R) ®	0.7 mm	480 min
	Nitrile rubber	0.33 mm	480 min
xylene	Nitrile rubber	0.33 mm	30 min
	Viton (R) ®	0.7 mm	480 min

The protective glove should be checked in each case for their work specific suitability (e.g. mechanical stability, product compatibility, and anti-static properties). When the intended use is for spray application a nitrile glove of the chemical resistance group 3 (e.g. Dermatril® glove) is to be used. After contamination, the glove has to be changed. If immersing the hands into the product is not avoidable (e.g. maintenance work) a butyl or fluorocarbon rubber glove should be used. When skin exposure may occur to materials specified in section 3 of this SDS, advice should be sought from the glove supplier as to appropriate type to use with this product and the permeation breakthrough times. Care should be taken when working with sharp edged articles as these can easily damage the gloves and make them ineffective. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. Damaged gloves or those showing signs of wear should be replaced immediately.

Skin and body protection
Wear suitable protective clothing. Personnel should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber.

Hygiene measures
Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use organic solvents!

9. Physical and chemical properties

Appearance

Form : liquid Colour: brown Odor Threshold : no data available

pH	not applicable	
Freezing point	Not applicable.	
Boiling point	65 °C	
Flash point	31 °C	
Evapouration rate	Slower than Ether	
Flammability		
Upper explosion limit	11.2 %	
Lower explosion limit	0.9 %	
Vapour pressure	4.7 hPa	
Solubility(ies)	moderate	
Vapour density	no data available	
Density	1.01 g/cm^3	DIN 53217/ISO 2811

Partition coefficient: n-octanol/water	no data available	
Ignition temperature	340 °C	DIN 51794
Decomposition temperature		
Viscosity (23 °C)	Not applicable.	ISO 2431-1993

10. Stability and reactivity

Stability
Stable

Hazardous polymerisation
Will not occur.

Conditions to avoid
Stable under recommended storage and handling conditions (see section 7).

Materials to avoid
Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Hazardous decomposition products
In the event of fire Carbon monoxide, fluorinated hydrocarbons, hydrogen fluoride, nitrogen oxides may be formed.

11. Toxicological information

Information on likely routes of exposure

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. The thermal decomposition vapours of fluorinated polymers may cause polymer fume fever with flu-like symptoms in humans, especially when smoking contaminated tobacco.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Delayed and immediate effects and also chronic effects from short and long term exposure:

Acute oral toxicity

n-butanol	Category 4
4-Nonylphenol, branched	Category 4
xylene	Category 5
ethylbenzene	Category 5
ethylenediamine	Category 4
5-methylhexan-2-one	Category 5

Acute dermal toxicity
not hazardous

Acute inhalation toxicity
not hazardous

% of unknown composition 0 %

Skin corrosion/irritation

n-butanol	Category 2
4-Nonylphenol, branched	Category 1
xylene	Category 2
ethylbenzene	Category 3
ethylenediamine	Category 1B
5-methylhexan-2-one	Category 3
methyl acetate	Category 2

Serious eye damage/eye irritation

n-butanol	Category 1
4-Nonylphenol, branched	Category 1
xylene	Category 2A
ethylbenzene	Category 2B
ethylenediamine	Category 1
5-methylhexan-2-one	Category 2A
methyl acetate	Category 1

Respiratory sensitisation

ethylenediamine	Category 1

Skin sensitisation

ethylenediamine	Category 1

Germ cell mutagenicity
Not classified according to GHS criteria

Carcinogenicity
Not classified according to GHS criteria

Toxicity for reproduction

4-Nonylphenol, branched	Category 2

Target Organ Systemic Toxicant - Single exposure
Not classified according to GHS criteria

Target Organ Systemic Toxicant - Repeated exposure
Not classified according to GHS criteria

Aspiration toxicity
Not classified according to GHS criteria

Numerical measures of toxicity (acute toxicity estimation (ATE),etc.)
No information available.

Symptoms related to the physical, chemical and toxicological characteristics
Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Through skin resorbtion, solvents can cause some of the effects described here. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.

12. Ecological information

Product contains environmentally hazardous substances and product is not classified per GHS.

Ecotoxicity effects
There are no data available on the product itself. The product should not be allowed to enter drains or watercourses.

Acute aquatic toxicity

4-Nonylphenol, branched	Category 1
xylene	Category 3
ethylbenzene	Category 2

Chronic aquatic toxicity

4-chloro-a,a,a-trifluorotoluene	Category 3
4-Nonylphenol, branched	Category 1
ethylenediamine	Category 3

% of unknown composition 0%

Persistence and degradability
No information available.

Bioaccumulation
No information available.

Mobility in soil
No information available.

Other adverse effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods
Dispose of in accordance with local regulations.

Disposal considerations
A disposal process that converts the waste into energy is recommended. If this is not possible the hazardous waste must be disposed of by incineration.

14. Transport information

NZS5433

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Packing group:	III
Hazchem Code:	3Y

IMDG (Sea transport)

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	III
Marine Pollutant:	yes [4-Nonylphenol, branched]
EmS:	F-E,S-E

ICAO/IATA (Air transport)

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	III

Matters needing attention for transportation
Confirm that there is no breakage, corrosion, or leakage from the container before shipping. Be sure to prevent damage to cargo by loading so as to avoid falling, dropping, or collapse. Ship in appropriate containers with denotation of the content in accordance with the relevant statutes and rules.

15. Regulatory information

National regulatory information

HSNO Approval Code	HSR002663
HSNO Classification	
Acute oral toxicity	Category 6.1E
Skin corrosion/irritation	Category 8.2B
Serious eye damage/eye irritation	Category 8.3A
Respiratory sensitisation	Category 6.5A
Skin sensitisation	Category 6.5B
Toxicity for reproduction	Category 6.8B
Flammable liquids	Category 3.1C
Acute aquatic toxicity	Category 9.1B
Chronic aquatic toxicity	Category 9.1B

16. Other information

Revision Note

Version	Changes
1.0	

Revision Date: 2015-01-29
B12822903

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.

End of Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking

Product name	18510S Epoxy Surfacer
Product code	18510S

Intended use of the substance/preparation
Intermediate

Supplier	Axalta Coating Systems Australia Pty Limited
Street address	15 - 23 Melbourne Road, Riverstone NSW 2765, Australia
Telephone	
Telefax	

Emergency Information

Emergency telephone number	+(64) 9801 0034 NZ Poisons Information Centre: 0800 764 766 or +(64) 3 479 7248
Importer	Resene Automotive & Light Industrial
Street/Box	4 Te Apunga Place, Mt Wellington, Auckland, NZ
Nat.-Code/Postal code/City	
Telephone	+64 (09) 259 2738
Date of preparation	2015-01-29

2. Hazards identification

Classified as a Dangerous Good according to NZS 5433
Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001

HSNO Classification

Flammable liquids	Category 3.1C
Acute dermal toxicity	Category 6.1E
Acute inhalation toxicity	Category 6.1D
Skin corrosion/irritation	Category 6.3A
Toxicity for reproduction	Category 6.8B
Acute aquatic toxicity	Category 9.1C
Ecotoxic to terrestrial invertebrates	Category 9.4C

Endpoints which are “”not classified“”, “”cannot classified“” and “”not applicable“” are not shown

GHS-Labelling

Hazard symbols	
Signal word	Warning
Hazard statements	Flammable liquid and vapour. May be harmful in contact with skin. Harmful if inhaled. Causes skin irritation. Suspected of damaging fertility or the unborn child. Harmful to aquatic life.
Precautionary statements	Avoid release to the environment. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Obtain special instructions before use. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/ vapours/ spray. IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF exposed or concerned: Get medical advice/ attention.
Store in a well-ventilated place. Keep cool.

Other hazards which do not result in classification
None known.

3. Composition/information on ingredients

Pure substance/mixture
Mixture

CAS-No.	Chemical Name	Concentration	GHS Hazardous
1330-20-7	xylene	70 - 80%	√
100-41-4	ethylbenzene	10 - 20%	√
123-86-4	n-butyl acetate	3 - 5%	√
556-67-2	octamethylcyclotetrasiloxane	1 - 3%	√
108-88-3	toluene	0.3 - 1.0%	√

Non-regulated ingredients 0.1 - 1.0%

4. First aid measures

Eye contact
Remove contact lenses. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Seek medical advice.

Skin contact
Do NOT use solvents or thinners. Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. If skin irritation persists, call a physician.

Inhalation
Avoid inhalation of vapour or mist. Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

Ingestion
If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting. Keep at rest.

Most Important Symptoms/effects, acute and delayed

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Notes to physician
No data available on the product. See section 3 and 11 for hazardous ingredients found in the product.

5. Firefighting measures

Suitable extinguishing media
Universal aqueous film-forming foam, Carbon dioxide (CO2), Dry chemical, Water spray.

Extinguishing media which shall not be used for safety reasons
High volume water jet

Specific hazards
Flammable liquid. Vapours may form explosive mixtures with air. Remove all sources of ignition. Solvent vapours are heavier than air and may spread along floors. Do not allow run-off from fire fighting to enter drains or water courses. Never use pressure to empty container: container is not a pressure vessel. Always keep in containers of same material as the original one.

Special Protective Equipment and Fire Fighting Procedures
Wear as appropriate: Full protective flameproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. In the event of fire, cool tanks with water spray.

6. Accidental release measures

Personal precautions
Keep in a well-ventilated place. Keep away from sources of ignition. Comply with safety directives (see chapters 7 and 8). Do not inhale vapours.

Environmental precautions
Do not let product enter drains. Notify the respective authorities in accordance with local law in the case of contamination of rivers, lakes or waste water systems.

Methods for cleaning up
Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations. Clean preferably with a detergent; avoid use of solvents.

7. Handling and storage

Safe handling advice
Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation may charge electrostatically: always use grounded leads when transferring from one container to another. Operators should wear antistatic footwear and clothing. No sparking tools should be used. Avoid skin and eye contact. Do not breathe vapours or spray mist. Smoking, eating and drinking should be prohibited in the application area.

Storage
Suitable storage conditions
Observe label precautions. Store between 5 and 25 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Suitable container and packaging materials for safe storage
Always keep in containers made of the same material as the supply container.

8. Exposure controls/personal protection

Chemical Name

National occupational exposure limits
Workplace Exposure Standards (WESs) 2002

Chemical Name		
xylene	TWA	50 ppm
	TWA	217 mg/m3
ethylbenzene	TWA	100 ppm
	STEL	125 ppm
	STEL	543 mg/m3
	TWA	434 mg/m3
n-butyl acetate	TWA	150 ppm
	STEL	200 ppm
	STEL	950 mg/m3
	TWA	713 mg/m3
toluene	TWA	50 ppm
	TWA	188 mg/m3

Engineering measures
Provide adequate ventilation. This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

Protective equipment
Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

Respiratory protection
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Eye protection
Wear protective eyewear for protection against solvent spatter.

Hand protection
The breakthrough time of gloves is unknown for the product itself. The glove material given is recommended on basis of the substances in the preparation.

Chemical Name	Glove material	Glove thickness	Break through time
xylene	Nitrile rubber	0.33 mm	30 min
	Viton (R) ®	0.7 mm	480 min
n-butyl acetate	Viton (R) ®	0.7 mm	10 min
	Nitrile rubber	0.33 mm	30 min

The protective glove should be checked in each case for their work specific suitability (e.g. mechanical stability, product compatibility, and anti-static properties). When the intended use is for spray application a nitrile glove of the chemical resistance group 3 (e.g. Dermatril® glove) is to be used. After contamination, the glove has to be changed. If immersing the hands into the product is not avoidable (e.g. maintenance work) a butyl or fluorocarbon rubber glove should be used. When skin exposure may occur to materials specified in section 3 of this SDS, advice should be sought from the glove supplier as to appropriate type to use with this product and the permeation breakthrough times. Care should be taken when working with sharp edged articles as these can easily damage the gloves and make them ineffective. The instructions and information provided by the glove supplier

on use, storage, maintenance and replacement must be followed. Damaged gloves or those showing signs of wear should be replaced immediately.

Skin and body protection
Wear suitable protective clothing. Personnel should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber.

Hygiene measures
Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use organic solvents!

9. Physical and chemical properties

Appearance

Form : liquid Colour: clear Odor Threshold : no data available

pH	not applicable	
Freezing point	Not applicable.	
Boiling point	135 °C	
Flash point	24 °C	
Evapouration rate	Slower than Ether	
Flammability		
Upper explosion limit	7 %	
Lower explosion limit	1 %	
Vapour pressure	8.5 hPa	
Solubility(ies)	partly miscible	
Vapour density	no data available	
Density	0.87 g/cm^3	DIN 53217/ISO 2811
Partition coefficient: n-octanol/water	no data available	
Ignition temperature	400 °C	DIN 51794
Decomposition temperature		
Viscosity (23 °C)	<20 s	ISO 2431-1993 6 mm

10. Stability and reactivity

Stability
Stable

Hazardous polymerisation
Will not occur.

Conditions to avoid
Stable under recommended storage and handling conditions (see section 7).

Materials to avoid
Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Hazardous decomposition products
When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

11. Toxicological information

Information on likely routes of exposure

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Delayed and immediate effects and also chronic effects from short and long term exposure:

Acute oral toxicity
not hazardous

Acute dermal toxicity

xylene	Category 4

Acute inhalation toxicity

xylene	Category 4
ethylbenzene	Category 4
octamethylcyclotetrasiloxane	Category 5
toluene	Category 5

% of unknown composition 0 %

Skin corrosion/irritation

xylene	Category 2
ethylbenzene	Category 3
n-butyl acetate	Category 3
toluene	Category 2

Serious eye damage/eye irritation
Not classified according to GHS criteria

Respiratory sensitisation
Not classified according to GHS criteria

Skin sensitisation
Not classified according to GHS criteria

Germ cell mutagenicity
Not classified according to GHS criteria

Carcinogenicity
Not classified according to GHS criteria

Toxicity for reproduction

octamethylcyclotetrasiloxane	Category 2
toluene	Category 2

Target Organ Systemic Toxicant - Single exposure
Not classified according to GHS criteria

Target Organ Systemic Toxicant - Repeated exposure
Not classified according to GHS criteria

Aspiration toxicity
Not classified according to GHS criteria

Numerical measures of toxicity (acute toxicity estimation (ATE),etc.)
No information available.

Symptoms related to the physical, chemical and toxicological characteristics
Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Through skin resorbtion, solvents can cause some of the effects described here. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.

12. Ecological information

Product contains environmentally hazardous substances and product is not classified per GHS.

Ecotoxicity effects
There are no data available on the product itself. The product should not be allowed to enter drains or watercourses.

Acute aquatic toxicity

xylene	Category 3
ethylbenzene	Category 2
n-butyl acetate	Category 3
toluene	Category 2

Ecotoxic to terrestrial invertebrates

xylene	Category 9.4C

% of unknown composition 0%

Persistence and degradability
No information available.

Bioaccumulation
No information available.

Mobility in soil
No information available.

Other adverse effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods
Dispose of in accordance with local regulations.

Disposal considerations
A disposal process that converts the waste into energy is recommended. If this is not possible the hazardous waste must be disposed of by incineration.

14. Transport information

NZS5433

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Packing group:	III
Hazchem Code:	3Y

IMDG (Sea transport)

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	III
Marine Pollutant:	no
EmS:	F-E,S-E

ICAO/IATA (Air transport)

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	III

Matters needing attention for transportation

Confirm that there is no breakage, corrosion, or leakage from the container before shipping. Be sure to prevent damage to cargo by loading so as to avoid falling, dropping, or collapse. Ship in appropriate containers with denotation of the content in accordance with the relevant statutes and rules.

15. Regulatory information

National regulatory information

HSNO Approval Code	HSR002662
HSNO Classification	
Acute dermal toxicity	Category 6.1E
Acute inhalation toxicity	Category 6.1D
Skin corrosion/irritation	Category 6.3A
Toxicity for reproduction	Category 6.8B
Flammable liquids	Category 3.1C
Acute aquatic toxicity	Category 9.1C
Ecotoxic to terrestrial invertebrates	Category 9.4C

16. Other information

Revision Note

Version	Changes
1.0	

Revision Date: 2015-01-15
B11734629

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.

End of Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking

Product name	18710S VOC-Exempt reducer
Product code	18710S

Intended use of the substance/preparation
Thinner for professionnal use

Supplier	Axalta Coating Systems Australia Pty Limited
Street address	15 - 23 Melbourne Road, Riverstone NSW 2765, Australia
Telephone	
Telefax	

Emergency Information

Emergency telephone number	+(64) 9801 0034 NZ Poisons Information Centre: 0800 764 766 or +(64) 3 479 7248
Importer	Resene Automotive & Light Industrial
Street/Box	4 Te Apunga Place, Mt Wellington, Auckland, NZ
Nat.-Code/Postal code/City	
Telephone	+64 (09) 259 2738
Date of preparation	2015-01-29

2. Hazards identification

Classified as a Dangerous Good according to NZS 5433
Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001

HSNO Classification

Flammable liquids	Category 3.1B
Skin corrosion/irritation	Category 6.3B
Serious eye damage/eye irritation	Category 6.4A
Chronic aquatic toxicity	Category 9.1C

Endpoints which are “”not classified“”, “”cannot classified“” and “”not applicable“” are not shown

GHS-Labelling

Hazard symbols

Signal word	Danger
Hazard statements	Highly flammable liquid and vapour. Causes mild skin irritation. Causes serious eye irritation. Harmful to aquatic life with long lasting effects.
Precautionary statements	Wear eye protection/ face protection. Avoid release to the environment. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. If eye irritation persists: Get medical advice/ attention. Store in a well-ventilated place. Keep cool.

Other hazards which do not result in classification
None known.

3. Composition/information on ingredients

Pure substance/mixture
Mixture

CAS-No.	Chemical Name	Concentration	GHS Hazardous
98-56-6	4-chloro-a,a,a-trifluorotoluene	80 - 90%	√
67-64-1	acetone	10 - 20%	√

Non-regulated ingredients 0.1 - 1.0%

4. First aid measures

Eye contact
Remove contact lenses. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Seek medical advice.

Skin contact
Do NOT use solvents or thinners. Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. If skin irritation persists, call a physician.

Inhalation
Avoid inhalation of vapour or mist. Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

Ingestion
If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting. Keep at rest.

Most Important Symptoms/effects, acute and delayed

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Notes to physician
No data available on the product. See section 3 and 11 for hazardous ingredients found in the product.

5. Firefighting measures

Suitable extinguishing media
Universal aqueous film-forming foam, Carbon dioxide (CO2), Dry chemical, Water spray.

Extinguishing media which shall not be used for safety reasons
High volume water jet

Specific hazards
Flammable liquid. Vapours may form explosive mixtures with air. Remove all sources of ignition. Solvent vapours are heavier than air and may spread along floors. Do not allow run-off from fire fighting to enter drains or water courses. Never use pressure to empty container: container is not a pressure vessel. Always keep in containers of same material as the original one.

Special Protective Equipment and Fire Fighting Procedures
Wear as appropriate: Full protective flameproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. In the event of fire, cool tanks with water spray.

6. Accidental release measures

Personal precautions
Keep in a well-ventilated place. Keep away from sources of ignition. Comply with safety directives (see chapters 7 and 8). Do not inhale vapours.

Environmental precautions
Do not let product enter drains. Notify the respective authorities in accordance with local law in the case of contamination of rivers, lakes or waste water systems.

Methods for cleaning up
Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations. Clean preferably with a detergent; avoid use of solvents.

7. Handling and storage

Safe handling advice
Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation may charge electrostatically: always use grounded leads when transferring from one container to another. Operators should wear antistatic footwear and clothing. No sparking tools should be used. Avoid skin and eye contact. Do not breathe vapours or spray mist. Smoking, eating and drinking should be prohibited in the application area. During baking at temperatures above 400°C, small amounts of hydrogen fluoride can be evolved; these amounts increase as temperatures. Hydrogen fluoride vapours are very toxic and cause skin and eye irritation. Above 430°C an explosive reaction may occur if finely divided fluorocarbon comes into contact with metal powder (aluminium or magnesium). Operations such as grinding, buffing or grit blasting may generate such mixtures. Avoid any dust buildup with fluorocarbons and metal mixtures.

Storage
Suitable storage conditions
Observe label precautions. Store between 5 and 25 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Suitable container and packaging materials for safe storage
Always keep in containers made of the same material as the supply container.

8. Exposure controls/personal protection

National occupational exposure limits
Workplace Exposure Standards (WESs) 2002

Chemical Name		
4-chloro-a,a,a-trifluorotoluene	TWA	2.5 mg/m3
acetone	TWA	500 ppm
	STEL	1,000 ppm
	STEL	2,375 mg/m3
	TWA	1,185 mg/m3

Engineering measures
Provide adequate ventilation. This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

Protective equipment
Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

Respiratory protection
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Eye protection
Wear protective eyewear for protection against solvent spatter.

Hand protection
The breakthrough time of gloves is unknown for the product itself. The glove material given is recommended on basis of the substances in the preparation.

Glove material	Glove thickness	Break through time
Nitrile rubber	0.33 mm	60 min

The protective glove should be checked in each case for their work specific suitability (e.g. mechanical stability, product compatibility, and anti-static properties). When the intended use is for spray application a nitrile glove of the chemical resistance group 3 (e.g. Dermatril® glove) is to be used. After contamination, the glove has to be changed. If immersing the hands into the product is not avoidable (e.g. maintenance work) a butyl or fluorocarbon rubber glove should be used. When skin exposure may occur to materials specified in section 3 of this SDS, advice should be sought from the glove supplier as to appropriate type to use with this product and the permeation breakthrough times. Care should be taken when working with sharp edged articles as these can easily damage the gloves and make them ineffective. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. Damaged gloves or those showing signs of wear should be replaced immediately.

Skin and body protection
Wear suitable protective clothing. Personnel should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber.

Hygiene measures
Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use organic solvents!

9. Physical and chemical properties

Appearance

Form : liquid Colour: clear Odor Threshold : no data available

pH	No data available.	
Freezing point	Not applicable.	
Boiling point	139 °C	
Flash point	10 °C	
Evapouration rate	Slower than Ether	
Flammability		
Upper explosion limit	12.8 %	
Lower explosion limit	0.9 %	
Vapour pressure	42.9 hPa	
Solubility(ies)	appreciable	
Vapour density	no data available	
Density	1.21 g/cm^3	DIN 53217/ISO 2811
Partition coefficient: n-octanol/water	no data available	
Ignition temperature	465 °C	DIN 51794
Decomposition temperature		
Viscosity (23 °C)	Not applicable.	ISO 2431-1993

10. Stability and reactivity

Stability
Stable

Hazardous polymerisation
Will not occur.

Conditions to avoid
Stable under recommended storage and handling conditions (see section 7).

Materials to avoid
Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Hazardous decomposition products
In the event of fire Carbon monoxide, fluorinated hydrocarbons, hydrogen fluoride, nitrogen oxides may be formed.

11. Toxicological information

Information on likely routes of exposure

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. The thermal decomposition vapours of fluorinated polymers may cause polymer fume fever with flu-like symptoms in humans, especially when smoking contaminated tobacco.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Delayed and immediate effects and also chronic effects from short and long term exposure:

Acute oral toxicity
not hazardous

Acute dermal toxicity
not hazardous

Acute inhalation toxicity
not hazardous

% of unknown composition 0 %

Skin corrosion/irritation

acetone	Category 3

Serious eye damage/eye irritation

acetone	Category 2A

Respiratory sensitisation
Not classified according to GHS criteria

Skin sensitisation
Not classified according to GHS criteria

Germ cell mutagenicity
Not classified according to GHS criteria

Carcinogenicity
Not classified according to GHS criteria

Toxicity for reproduction
Not classified according to GHS criteria

Target Organ Systemic Toxicant - Single exposure
Not classified according to GHS criteria

Target Organ Systemic Toxicant - Repeated exposure
Not classified according to GHS criteria

Aspiration toxicity
Not classified according to GHS criteria

Numerical measures of toxicity (acute toxicity estimation (ATE),etc.)
No information available.

Symptoms related to the physical, chemical and toxicological characteristics
Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Through skin resorbtion, solvents can cause some of the effects described here. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.

12. Ecological information

Product contains environmentally hazardous substances and product is not classified per GHS.

Ecotoxicity effects
There are no data available on the product itself. The product should not be allowed to enter drains or watercourses.

Chronic aquatic toxicity

4-chloro-a,a,a-trifluorotoluene	Category 3

% of unknown composition 0%

Persistence and degradability
No information available.

Bioaccumulation
No information available.

Mobility in soil
No information available.

Other adverse effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods
Dispose of in accordance with local regulations.

Disposal considerations
A disposal process that converts the waste into energy is recommended. If this is not possible the hazardous waste must be disposed of by incineration.

14. Transport information

NZS5433

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Packing group:	II
Hazchem Code:	3YE

IMDG (Sea transport)

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	II
Marine Pollutant:	no
EmS:	F-E,S-E

ICAO/IATA (Air transport)

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	II

Matters needing attention for transportation
Confirm that there is no breakage, corrosion, or leakage from the container before shipping. Be sure to prevent damage to cargo by loading so as to avoid falling, dropping, or collapse. Ship in appropriate containers with denotation of the content in accordance with the relevant statutes and rules.

15. Regulatory information

National regulatory information

HSNO Approval Code	HSR002662
HSNO Control A	This product must be under the control of an approved handler during use.
HSNO Classification	
Skin corrosion/irritation	Category 6.3B
Serious eye damage/eye irritation	Category 6.4A
Flammable liquids	Category 3.1B
Chronic aquatic toxicity	Category 9.1C

16. Other information

Revision Note

Version	Changes
1.0	

Revision Date: 2015-01-29
B12871633

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.

End of Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking

Product name	18775S Marine Mid Temp Reducer
Product code	18775S

Intended use of the substance/preparation
Solvent for professional use

Supplier	Axalta Coating Systems Australia Pty Limited
Street address	15 - 23 Melbourne Road, Riverstone NSW 2765, Australia
Telephone	
Telefax	

Emergency Information

Emergency telephone number	+(64) 9801 0034 NZ Poisons Information Centre: 0800 764 766 or +(64) 3 479 7248
Importer	Resene Automotive & Light Industrial
Street/Box	4 Te Apunga Place, Mt Wellington, Auckland, NZ
Nat.-Code/Postal code/City	
Telephone	+64 (09) 259 2738
Date of preparation	2015-01-29

2. Hazards identification

Classified as a Dangerous Good according to NZS 5433
Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001

HSNO Classification

Flammable liquids	Category 3.1B
Acute oral toxicity	Category 6.1E
Acute dermal toxicity	Category 6.1E
Acute inhalation toxicity	Category 6.1E
Skin corrosion/irritation	Category 6.3B
Serious eye damage/eye irritation	Category 6.4A
Chronic aquatic toxicity	Category 9.1C

Endpoints which are “”not classified“”, “”cannot classified“” and “”not applicable“” are not shown

GHS-Labelling

Hazard symbols	
Signal word	Danger
Hazard statements	Highly flammable liquid and vapour. May be harmful if swallowed. May be harmful in contact with skin. May be harmful if inhaled. Causes mild skin irritation. Causes serious eye irritation. Harmful to aquatic life with long lasting effects.
Precautionary statements	Wear eye protection/ face protection. Avoid release to the environment. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed.

Call a POISON CENTER or doctor/ physician if you feel unwell.
If eye irritation persists: Get medical advice/ attention.
Store in a well-ventilated place. Keep cool.

Other hazards which do not result in classification
None known.

3. Composition/information on ingredients

Pure substance/mixture
Mixture

CAS-No.	Chemical Name	Concentration	GHS Hazardous
98-56-6	4-chloro-a,a,a-trifluorotoluene	40 - 50%	√
67-64-1	acetone	20 - 30%	√
110-43-0	heptan-2-one	10 - 20%	√
123-54-6	pentane-2,4-dione	5 - 10%	√

Non-regulated ingredients 0.1 - 1.0%

4. First aid measures

Eye contact
Remove contact lenses. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Seek medical advice.

Skin contact
Do NOT use solvents or thinners. Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. If skin irritation persists, call a physician.

Inhalation
Avoid inhalation of vapour or mist. Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

Ingestion
If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting. Keep at rest.

Most Important Symptoms/effects, acute and delayed

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Notes to physician
No data available on the product. See section 3 and 11 for hazardous ingredients found in the product.

5. Firefighting measures

Suitable extinguishing media
Universal aqueous film-forming foam, Carbon dioxide (CO2), Dry chemical, Water spray.

Extinguishing media which shall not be used for safety reasons
High volume water jet

Specific hazards
Flammable liquid. Vapours may form explosive mixtures with air. Remove all sources of ignition. Solvent vapours are heavier than air and may spread along floors. Do not allow run-off from fire fighting to enter drains or water courses. Never use pressure to empty container: container is not a pressure vessel. Always keep in containers of same material as the original one.

Special Protective Equipment and Fire Fighting Procedures
Wear as appropriate: Full protective flameproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. In the event of fire, cool tanks with water spray.

6. Accidental release measures

Personal precautions
Keep in a well-ventilated place. Keep away from sources of ignition. Comply with safety directives (see chapters 7 and 8). Do not inhale vapours.

Environmental precautions
Do not let product enter drains. Notify the respective authorities in accordance with local law in the case of contamination of rivers, lakes or waste water systems.

Methods for cleaning up
Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations. Clean preferably with a detergent; avoid use of solvents.

7. Handling and storage

Safe handling advice
Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation may charge electrostatically: always use grounded leads when transferring from one container to another. Operators should wear antistatic footwear and clothing. No sparking tools should be used. Avoid skin and eye contact. Do not breathe vapours or spray mist. Smoking, eating and drinking should be prohibited in the application area. During baking at temperatures above 400°C, small amounts of hydrogen fluoride can be evolved; these amounts increase as temperatures. Hydrogen fluoride vapours are very toxic and cause skin and eye irritation. Above 430°C an explosive reaction may occur if finely divided fluorocarbon comes into contact with metal powder (aluminium or magnesium). Operations such as grinding, buffing or grit blasting may generate such mixtures. Avoid any dust buildup with fluorocarbons and metal mixtures.

Storage
Suitable storage conditions
Observe label precautions. Store between 5 and 25 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Suitable container and packaging materials for safe storage
Always keep in containers made of the same material as the supply container.

8. Exposure controls/personal protection

Chemical Name

National occupational exposure limits
Workplace Exposure Standards (WESs) 2002

Chemical Name		
4-chloro-a,a,a-trifluorotoluene	TWA	2.5 mg/m3
acetone	TWA	500 ppm
	STEL	1,000 ppm
	STEL	2,375 mg/m3
	TWA	1,185 mg/m3
heptan-2-one	TWA	50 ppm
	TWA	233 mg/m3

Engineering measures
Provide adequate ventilation. This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

Protective equipment
Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

Respiratory protection
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Eye protection
Wear protective eyewear for protection against solvent spatter.

Hand protection
The breakthrough time of gloves is unknown for the product itself. The glove material given is recommended on basis of the substances in the preparation.

Chemical Name	Glove material	Glove thickness	Break through time
pentane-2,4-dione	butyl-rubber	0.7 mm	480 m

The protective glove should be checked in each case for their work specific suitability (e.g. mechanical stability, product compatibility, and anti-static properties). When the intended use is for spray application a nitrile glove of the chemical resistance group 3 (e.g. Dermatril® glove) is to be used. After contamination, the glove has to be changed. If immersing the hands into the product is not avoidable (e.g. maintenance work) a butyl or fluorocarbon rubber glove should be used. When skin exposure may occur to materials specified in section 3 of this SDS, advice should be sought from the glove supplier as to appropriate type to use with this product and the permeation breakthrough times. Care should be taken when working with sharp edged articles as these can easily damage the gloves and make them ineffective. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. Damaged gloves or those showing signs of wear should be replaced immediately.

Skin and body protection
Wear suitable protective clothing. Personnel should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber.

Hygiene measures
Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use organic solvents!

9. Physical and chemical properties

Appearance

Form : liquid Colour: transparent Odor Threshold : no data available

pH	No data available.	
Freezing point	Not applicable.	
Boiling point	135 °C	
Flash point	-7 °C	
Evapouration rate	Slower than Ether	
Flammability		
Upper explosion limit	12.8 %	
Lower explosion limit	0.9 %	
Vapour pressure	76.4 hPa	
Solubility(ies)	appreciable	
Vapour density	no data available	
Density	1.02 g/cm^3	DIN 53217/ISO 2811
Partition coefficient: n-octanol/water	no data available	
Ignition temperature	350 °C	DIN 51794
Decomposition temperature		
Viscosity (23 °C)	Not applicable.	ISO 2431-1993

10. Stability and reactivity

Stability
Stable

Hazardous polymerisation
Will not occur.

Conditions to avoid
Stable under recommended storage and handling conditions (see section 7).

Materials to avoid
Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Hazardous decomposition products
In the event of fire Carbon monoxide, fluorinated hydrocarbons, hydrogen fluoride, nitrogen oxides may be formed.

11. Toxicological information

Information on likely routes of exposure

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. The thermal decomposition vapours of fluorinated polymers may cause polymer fume fever with flu-like symptoms in humans, especially when smoking contaminated tobacco.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Delayed and immediate effects and also chronic effects from short and long term exposure:

Acute oral toxicity

heptan-2-one	Category 4
pentane-2,4-dione	Category 4

Acute dermal toxicity

pentane-2,4-dione	Category 3

Acute inhalation toxicity

heptan-2-one	Category 4
pentane-2,4-dione	Category 3

% of unknown composition 0 %

Skin corrosion/irritation

acetone	Category 3
heptan-2-one	Category 2
pentane-2,4-dione	Category 3

Serious eye damage/eye irritation

acetone	Category 2A
heptan-2-one	Category 2B
pentane-2,4-dione	Category 2A

Respiratory sensitisation
Not classified according to GHS criteria

Skin sensitisation
Not classified according to GHS criteria

Germ cell mutagenicity
Not classified according to GHS criteria

Carcinogenicity
Not classified according to GHS criteria

Toxicity for reproduction
Not classified according to GHS criteria

Target Organ Systemic Toxicant - Single exposure
Not classified according to GHS criteria

Target Organ Systemic Toxicant - Repeated exposure
Not classified according to GHS criteria

Aspiration toxicity
Not classified according to GHS criteria

Numerical measures of toxicity (acute toxicity estimation (ATE),etc.)
No information available.

Symptoms related to the physical, chemical and toxicological characteristics
Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Through skin resorbtion, solvents can cause some of the effects described here. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.

12. Ecological information

Product contains environmentally hazardous substances and product is not classified per GHS.

Ecotoxicity effects
There are no data available on the product itself. The product should not be allowed to enter drains or watercourses.

Chronic aquatic toxicity

4-chloro-a,a,a-trifluorotoluene	Category 3
pentane-2,4-dione	Category 3

% of unknown composition 0%

Persistence and degradability
No information available.

Bioaccumulation
No information available.

Mobility in soil
No information available.

Other adverse effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods
Dispose of in accordance with local regulations.

Disposal considerations
A disposal process that converts the waste into energy is recommended. If this is not possible the hazardous waste must be disposed of by incineration.

14. Transport information

NZS5433

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Packing group:	II
Hazchem Code:	3YE

IMDG (Sea transport)

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3

Subsidiary Hazard Class:	Not applicable.
Packing group:	II
Marine Pollutant:	no
EmS:	F-E,S-E

ICAO/IATA (Air transport)

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	II

Matters needing attention for transportation

Confirm that there is no breakage, corrosion, or leakage from the container before shipping. Be sure to prevent damage to cargo by loading so as to avoid falling, dropping, or collapse. Ship in appropriate containers with denotation of the content in accordance with the relevant statutes and rules.

15. Regulatory information

National regulatory information

HSNO Approval Code	HSR002662
HSNO Control A	This product must be under the control of an approved handler during use.
HSNO Classification	
Acute oral toxicity	Category 6.1E
Acute dermal toxicity	Category 6.1E
Acute inhalation toxicity	Category 6.1E
Skin corrosion/irritation	Category 6.3B
Serious eye damage/eye irritation	Category 6.4A
Flammable liquids	Category 3.1B
Chronic aquatic toxicity	Category 9.1C

16. Other information

Revision Note

Version	Changes
1.0	

Revision Date: 2015-01-29
B12776412

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.

End of Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking

Product name	18785S Marine High Temperature Reducer
Product code	18785S

Intended use of the substance/preparation
Solvent for professional use

Supplier	Axalta Coating Systems Australia Pty Limited
Street address	15 - 23 Melbourne Road, Riverstone NSW 2765, Australia
Telephone	
Telefax	

Emergency Information

Emergency telephone number	+(64) 9801 0034 NZ Poisons Information Centre: 0800 764 766 or +(64) 3 479 7248
Importer	Resene Automotive & Light Industrial
Street/Box	4 Te Apunga Place, Mt Wellington, Auckland, NZ
Nat.-Code/Postal code/City	
Telephone	+64 (09) 259 2738
Date of preparation	2015-01-29

2. Hazards identification

Classified as a Dangerous Good according to NZS 5433
Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001

HSNO Classification

Flammable liquids	Category 3.1B
Acute oral toxicity	Category 6.1E
Acute dermal toxicity	Category 6.1E
Acute inhalation toxicity	Category 6.1E
Skin corrosion/irritation	Category 6.3B
Serious eye damage/eye irritation	Category 6.4A
Chronic aquatic toxicity	Category 9.1C

Endpoints which are “”not classified“”, “”cannot classified“” and “”not applicable“” are not shown

GHS-Labelling

Hazard symbols	
Signal word	Danger
Hazard statements	Highly flammable liquid and vapour. May be harmful if swallowed. May be harmful in contact with skin. May be harmful if inhaled. Causes mild skin irritation. Causes serious eye irritation. Harmful to aquatic life with long lasting effects.
Precautionary statements	Wear eye protection/ face protection. Avoid release to the environment. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed.

Call a POISON CENTER or doctor/ physician if you feel unwell.
If eye irritation persists: Get medical advice/ attention.
Store in a well-ventilated place. Keep cool.

Other hazards which do not result in classification
None known.

3. Composition/information on ingredients

Pure substance/mixture
Mixture

CAS-No.	Chemical Name	Concentration	GHS Hazardous
98-56-6	4-chloro-a,a,a-trifluorotoluene	60 - 70%	√
67-64-1	acetone	10 - 20%	√
123-54-6	pentane-2,4-dione	5 - 10%	√
103-09-3	2-ethylhexyl acetate	5 - 10%	√

Non-regulated ingredients 0.1 - 1.0%

4. First aid measures

Eye contact
Remove contact lenses. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Seek medical advice.

Skin contact
Do NOT use solvents or thinners. Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. If skin irritation persists, call a physician.

Inhalation
Avoid inhalation of vapour or mist. Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

Ingestion
If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting. Keep at rest.

Most Important Symptoms/effects, acute and delayed

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Notes to physician
No data available on the product. See section 3 and 11 for hazardous ingredients found in the product.

5. Firefighting measures

Suitable extinguishing media
Universal aqueous film-forming foam, Carbon dioxide (CO2), Dry chemical, Water spray.

Extinguishing media which shall not be used for safety reasons
High volume water jet

Specific hazards
Flammable liquid. Vapours may form explosive mixtures with air. Remove all sources of ignition. Solvent vapours are heavier than air and may spread along floors. Do not allow run-off from fire fighting to enter drains or water courses. Never use pressure to empty container: container is not a pressure vessel. Always keep in containers of same material as the original one.

Special Protective Equipment and Fire Fighting Procedures
Wear as appropriate: Full protective flameproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. In the event of fire, cool tanks with water spray.

6. Accidental release measures

Personal precautions
Keep in a well-ventilated place. Keep away from sources of ignition. Comply with safety directives (see chapters 7 and 8). Do not inhale vapours.

Environmental precautions
Do not let product enter drains. Notify the respective authorities in accordance with local law in the case of contamination of rivers, lakes or waste water systems.

Methods for cleaning up
Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations. Clean preferably with a detergent; avoid use of solvents.

7. Handling and storage

Safe handling advice
Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation may charge electrostatically: always use grounded leads when transferring from one container to another. Operators should wear antistatic footwear and clothing. No sparking tools should be used. Avoid skin and eye contact. Do not breathe vapours or spray mist. Smoking, eating and drinking should be prohibited in the application area. During baking at temperatures above 400°C, small amounts of hydrogen fluoride can be evolved; these amounts increase as temperatures. Hydrogen fluoride vapours are very toxic and cause skin and eye irritation. Above 430°C an explosive reaction may occur if finely divided fluorocarbon comes into contact with metal powder (aluminium or magnesium). Operations such as grinding, buffing or grit blasting may generate such mixtures. Avoid any dust buildup with fluorocarbons and metal mixtures.

Storage
Suitable storage conditions
Observe label precautions. Store between 5 and 25 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Suitable container and packaging materials for safe storage
Always keep in containers made of the same material as the supply container.

8. Exposure controls/personal protection

Chemical Name

National occupational exposure limits
Workplace Exposure Standards (WESs) 2002

Chemical Name		
4-chloro-a,a,a-trifluorotoluene	TWA	2.5 mg/m3
acetone	TWA	500 ppm
	STEL	1,000 ppm
	STEL	2,375 mg/m3
	TWA	1,185 mg/m3

Engineering measures
Provide adequate ventilation. This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

Protective equipment
Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

Respiratory protection
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Eye protection
Wear protective eyewear for protection against solvent spatter.

Hand protection
The breakthrough time of gloves is unknown for the product itself. The glove material given is recommended on basis of the substances in the preparation.

Chemical Name	Glove material	Glove thickness	Break through time
pentane-2,4-dione	butyl-rubber	0.7 mm	480 m

The protective glove should be checked in each case for their work specific suitability (e.g. mechanical stability, product compatibility, and anti-static properties). When the intended use is for spray application a nitrile glove of the chemical resistance group 3 (e.g. Dermatril® glove) is to be used. After contamination, the glove has to be changed. If immersing the hands into the product is not avoidable (e.g. maintenance work) a butyl or fluorocarbon rubber glove should be used. When skin exposure may occur to materials specified in section 3 of this SDS, advice should be sought from the glove supplier as to appropriate type to use with this product and the permeation breakthrough times. Care should be taken when working with sharp edged articles as these can easily damage the gloves and make them ineffective. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. Damaged gloves or those showing signs of wear should be replaced immediately.

Skin and body protection
Wear suitable protective clothing. Personnel should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber.

Hygiene measures
Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use organic solvents!

9. Physical and chemical properties

Appearance

Form : liquid Colour: transparent Odor Threshold : no data available

pH	No data available.	
Freezing point	Not applicable.	
Boiling point	135 °C	
Flash point	-7 °C	
Evapouration rate	Slower than Ether	
Flammability		
Upper explosion limit	12.8 %	
Lower explosion limit	0.9 %	
Vapour pressure	36.7 hPa	
Solubility(ies)	appreciable	
Vapour density	no data available	
Density	1.15 g/cm^3	DIN 53217/ISO 2811
Partition coefficient: n-octanol/water	no data available	
Ignition temperature	268 °C	DIN 51794
Decomposition temperature		
Viscosity (23 °C)	Not applicable.	ISO 2431-1993

10. Stability and reactivity

Stability
Stable

Hazardous polymerisation
Will not occur.

Conditions to avoid
Stable under recommended storage and handling conditions (see section 7).

Materials to avoid
Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Hazardous decomposition products
In the event of fire Carbon monoxide, fluorinated hydrocarbons, hydrogen fluoride, nitrogen oxides may be formed.

11. Toxicological information

Information on likely routes of exposure

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. The thermal decomposition vapours of fluorinated polymers may cause polymer fume fever with flu-like symptoms in humans, especially when smoking contaminated tobacco.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Delayed and immediate effects and also chronic effects from short and long term exposure:

Acute oral toxicity

pentane-2,4-dione	Category 4

Acute dermal toxicity

pentane-2,4-dione	Category 3

Acute inhalation toxicity

pentane-2,4-dione	Category 3

% of unknown composition 0 %

Skin corrosion/irritation

acetone	Category 3
pentane-2,4-dione	Category 3
2-ethylhexyl acetate	Category 2

Serious eye damage/eye irritation

acetone	Category 2A
pentane-2,4-dione	Category 2A
2-ethylhexyl acetate	Category 2B

Respiratory sensitisation
Not classified according to GHS criteria

Skin sensitisation
Not classified according to GHS criteria

Germ cell mutagenicity
Not classified according to GHS criteria

Carcinogenicity
Not classified according to GHS criteria

Toxicity for reproduction
Not classified according to GHS criteria

Target Organ Systemic Toxicant - Single exposure
Not classified according to GHS criteria

Target Organ Systemic Toxicant - Repeated exposure
Not classified according to GHS criteria

Aspiration toxicity
Not classified according to GHS criteria

Numerical measures of toxicity (acute toxicity estimation (ATE),etc.)
No information available.

Symptoms related to the physical, chemical and toxicological characteristics
Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Through skin resorbtion, solvents can cause some of the effects described here. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.

12. Ecological information

Product contains environmentally hazardous substances and product is not classified per GHS.

Ecotoxicity effects
There are no data available on the product itself. The product should not be allowed to enter drains or watercourses.

Chronic aquatic toxicity

4-chloro-a,a,a-trifluorotoluene	Category 3
pentane-2,4-dione	Category 3
2-ethylhexyl acetate	Category 3

% of unknown composition 0%

Persistence and degradability
No information available.

Bioaccumulation
No information available.

Mobility in soil
No information available.

Other adverse effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods
Dispose of in accordance with local regulations.

Disposal considerations
A disposal process that converts the waste into energy is recommended. If this is not possible the hazardous waste must be disposed of by incineration.

14. Transport information

NZS5433

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Packing group:	II
Hazchem Code:	3YE

IMDG (Sea transport)

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	II
Marine Pollutant:	no
EmS:	F-E,S-E

ICAO/IATA (Air transport)

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	II

Matters needing attention for transportation
Confirm that there is no breakage, corrosion, or leakage from the container before shipping. Be sure to prevent damage to cargo by loading so as to avoid falling, dropping, or collapse. Ship in appropriate containers with denotation of the content in accordance with the relevant statutes and rules.

15. Regulatory information

National regulatory information

HSNO Approval Code	HSR002662
HSNO Control A	This product must be under the control of an approved handler during use.
HSNO Classification	
Acute oral toxicity	Category 6.1E
Acute dermal toxicity	Category 6.1E
Acute inhalation toxicity	Category 6.1E
Skin corrosion/irritation	Category 6.3B
Serious eye damage/eye irritation	Category 6.4A
Flammable liquids	Category 3.1B
Chronic aquatic toxicity	Category 9.1C

16. Other information

Revision Note

Version	Changes
1.0	
Revision Date:	2015-01-29
B12822894	

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.

End of Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking

Product name	DP152 Marine Basecoat Binder
Product code	DP152

Intended use of the substance/preparation
Coating for professional use

Supplier	Axalta Coating Systems Australia Pty Limited
Street address	15 - 23 Melbourne Road, Riverstone NSW 2765, Australia
Telephone	
Telefax	

Emergency Information

Emergency telephone number	+(64) 9801 0034 NZ Poisons Information Centre: 0800 764 766 or +(64) 3 479 7248
Importer	Resene Automotive & Light Industrial
Street/Box	4 Te Apunga Place, Mt Wellington, Auckland, NZ
Nat.-Code/Postal code/City	
Telephone	+64 (09) 259 2738
Date of preparation	2015-01-29

2. Hazards identification

Classified as a Dangerous Good according to NZS 5433
Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001

HSNO Classification

Flammable liquids	Category 3.1C
Acute inhalation toxicity	Category 6.1E
Skin corrosion/irritation	Category 6.3A
Serious eye damage/eye irritation	Category 6.4A
Toxicity for reproduction	Category 6.8B
Acute aquatic toxicity	Category 9.1C
Ecotoxic to terrestrial invertebrates	Category 9.4C

Endpoints which are “”not classified“”, “”cannot classified“” and “”not applicable“” are not shown

GHS-Labelling

Hazard symbols	
Signal word	Warning
Hazard statements	Flammable liquid and vapour. May be harmful if inhaled. Causes skin irritation. Causes serious eye irritation. Suspected of damaging fertility or the unborn child. Harmful to aquatic life.
Precautionary statements	Avoid release to the environment. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Obtain special instructions before use. Wear protective gloves/protective clothing/eye protection/face protection. IF exposed or concerned: Get medical advice/ attention. If eye irritation persists: Get medical advice/ attention.

Store in a well-ventilated place. Keep cool.

Other hazards which do not result in classification
None known.

3. Composition/information on ingredients

Pure substance/mixture
Mixture

CAS-No.	Chemical Name	Concentration	GHS Hazardous
1330-20-7	xylene	30 - 40%	√
123-86-4	n-butyl acetate	10 - 20%	√
108-65-6	2-methoxy-1-methylethyl acetate	10 - 20%	√
108-83-8	2,6-dimethylheptan-4-one	5 - 10%	√
100-41-4	ethylbenzene	5 - 10%	√
624-41-9	2-methylbutyl acetate	1 - 3%	√
78-83-1	iso-butanol	1 - 3%	√
628-63-7	pentyl acetate	1 - 3%	√
108-88-3	toluene	0.1 - 0.3%	√

Non-regulated ingredients 20 - 30%

4. First aid measures

Eye contact
Remove contact lenses. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Seek medical advice.

Skin contact
Do NOT use solvents or thinners. Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. If skin irritation persists, call a physician.

Inhalation
Avoid inhalation of vapour or mist. Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

Ingestion
If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting. Keep at rest.

Most Important Symptoms/effects, acute and delayed

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Notes to physician
No data available on the product. See section 3 and 11 for hazardous ingredients found in the product.

5. Firefighting measures

Suitable extinguishing media
Universal aqueous film-forming foam, Carbon dioxide (CO2), Dry chemical, Water spray.

Extinguishing media which shall not be used for safety reasons
High volume water jet

Specific hazards
Flammable liquid. Vapours may form explosive mixtures with air. Remove all sources of ignition. Solvent vapours are heavier than air and may spread along floors. Do not allow run-off from fire fighting to enter drains or water courses. Never use pressure to empty container: container is not a pressure vessel. Always keep in containers of same material as the original one.

Special Protective Equipment and Fire Fighting Procedures
Wear as appropriate: Full protective flameproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. In the event of fire, cool tanks with water spray.

6. Accidental release measures

Personal precautions
Keep in a well-ventilated place. Keep away from sources of ignition. Comply with safety directives (see chapters 7 and 8). Do not inhale vapours.

Environmental precautions
Do not let product enter drains. Notify the respective authorities in accordance with local law in the case of contamination of rivers, lakes or waste water systems.

Methods for cleaning up
Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations. Clean preferably with a detergent; avoid use of solvents.

7. Handling and storage

Safe handling advice
Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation may charge electrostatically: always use grounded leads when transferring from one container to another. Operators should wear antistatic footwear and clothing. No sparking tools should be used. Avoid skin and eye contact. Do not breathe vapours or spray mist. Smoking, eating and drinking should be prohibited in the application area.

Storage
Suitable storage conditions
Observe label precautions. Store between 5 and 25 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Suitable container and packaging materials for safe storage
Always keep in containers made of the same material as the supply container.

8. Exposure controls/personal protection

National occupational exposure limits
Workplace Exposure Standards (WESs) 2002

Chemical Name		
xylene	TWA	50 ppm
	TWA	217 mg/m3
n-butyl acetate	TWA	150 ppm
	STEL	200 ppm
	STEL	950 mg/m3
	TWA	713 mg/m3
2,6-dimethylheptan-4-one	TWA	25 ppm
	TWA	145 mg/m3
ethylbenzene	TWA	100 ppm
	STEL	125 ppm
	STEL	543 mg/m3
	TWA	434 mg/m3
iso-butanol	TWA	50 ppm
	TWA	152 mg/m3
pentyl acetate	TWA	100 ppm
	TWA	532 mg/m3
toluene	TWA	50 ppm
	TWA	188 mg/m3

Engineering measures
Provide adequate ventilation. This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

Protective equipment
Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

Respiratory protection
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Eye protection
Wear protective eyewear for protection against solvent spatter.

Hand protection
The breakthrough time of gloves is unknown for the product itself. The glove material given is recommended on basis of the substances in the preparation.

Chemical Name	Glove material	Glove thickness	Break through time
xylene	Nitrile rubber	0.33 mm	30 min
	Viton (R) ®	0.7 mm	480 min

Chemical Name	Glove material	Glove thickness	Break through time
n-butyl acetate	Viton (R) ®	0.7 mm	10 min
	Nitrile rubber	0.33 mm	30 min

The protective glove should be checked in each case for their work specific suitability (e.g. mechanical stability, product compatibility, and anti-static properties). When the intended use is for spray application a nitrile glove of the chemical resistance group 3 (e.g. Dermatril® glove) is to be used. After contamination, the glove has to be changed. If immersing the hands into the product is not avoidable (e.g. maintenance work) a butyl or fluorocarbon rubber glove should be used. When skin exposure may occur to materials specified in section 3 of this SDS, advice should be sought from the glove supplier as to appropriate type to use with this product and the permeation breakthrough times. Care should be taken when working with sharp edged articles as these can easily damage the gloves and make them ineffective. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. Damaged gloves or those showing signs of wear should be replaced immediately.

Skin and body protection
Wear suitable protective clothing. Personnel should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber.

Hygiene measures
Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use organic solvents!

9. Physical and chemical properties

Appearance

Form : liquid Colour: milky Odour: Characteristic Paint Odor Odor Threshold : no data available

pH	No data available.	
Freezing point	Not applicable.	
Boiling point	135 °C	
Flash point	33 °C	DIN 53213/ISO 1523
Evapouration rate	Slower than Ether	
Flammability		
Upper explosion limit	10.3 %	
Lower explosion limit	0.8 %	
Vapour pressure	6.1 hPa	
Solubility(ies)	appreciable	
Vapour density	no data available	
Density	0.92 g/cm^3	DIN 53217/ISO 2811
Partition coefficient: n-octanol/water	no data available	
Ignition temperature	272 °C	DIN 51794
Decomposition temperature		
Viscosity (23 °C)	73 s	ISO 2431-1993 6 mm

10. Stability and reactivity

Stability
Stable

Hazardous polymerisation
Will not occur.

Conditions to avoid
Stable under recommended storage and handling conditions (see section 7).

Materials to avoid
Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Hazardous decomposition products
The product contains ingredients which, under certain conditions, also may release formaldehyde. If necessary, the precise concentration has to be be determined. When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

11. Toxicological information

Information on likely routes of exposure

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Delayed and immediate effects and also chronic effects from short and long term exposure:

Acute oral toxicity
not hazardous

Acute dermal toxicity
not hazardous

Acute inhalation toxicity

xylene	Category 4
ethylbenzene	Category 4
toluene	Category 5

% of unknown composition 1.3 %

Skin corrosion/irritation

xylene	Category 2
n-butyl acetate	Category 3
2,6-dimethylheptan-4-one	Category 3
ethylbenzene	Category 3
2-methylbutyl acetate	Category 3
iso-butanol	Category 2
pentyl acetate	Category 3
toluene	Category 2

Serious eye damage/eye irritation

xylene	Category 2A
2-methoxy-1-methylethyl acetate	Category 2A
2,6-dimethylheptan-4-one	Category 2A
ethylbenzene	Category 2B
iso-butanol	Category 1
pentyl acetate	Category 2A
toluene	Category 2B

Respiratory sensitisation
Not classified according to GHS criteria

Skin sensitisation
Not classified according to GHS criteria

Germ cell mutagenicity
Not classified according to GHS criteria

Carcinogenicity
Not classified according to GHS criteria

Toxicity for reproduction

toluene	Category 2

Target Organ Systemic Toxicant - Single exposure
Not classified according to GHS criteria

Target Organ Systemic Toxicant - Repeated exposure
Not classified according to GHS criteria

Aspiration toxicity
Not classified according to GHS criteria

Numerical measures of toxicity (acute toxicity estimation (ATE),etc.)
No information available.

Symptoms related to the physical, chemical and toxicological characteristics
Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Through skin resorbtion, solvents can cause some of the effects described here. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.

12. Ecological information

Product contains environmentally hazardous substances and product is not classified per GHS.

Ecotoxicity effects
There are no data available on the product itself. The product should not be allowed to enter drains or watercourses.

Acute aquatic toxicity

xylene	Category 3
n-butyl acetate	Category 3
ethylbenzene	Category 2
toluene	Category 2

Ecotoxic to terrestrial invertebrates

xylene	Category 9.4C

% of unknown composition 6.7%

Persistence and degradability
No information available.

Bioaccumulation
No information available.

Mobility in soil
No information available.

Other adverse effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods
Dispose of in accordance with local regulations.

Disposal considerations
A disposal process that converts the waste into energy is recommended. If this is not possible the hazardous waste must be disposed of by incineration.

14. Transport information

NZS5433

Proper shipping name:	PAINT
UN number:	1263
Hazard Class:	3
Packing group:	III
Hazchem Code:	3Y

IMDG (Sea transport)

Proper shipping name:	PAINT
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	III
Marine Pollutant:	no
EmS:	F-E,S-E

ICAO/IATA (Air transport)

Proper shipping name:	PAINT
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	III

Matters needing attention for transportation
Confirm that there is no breakage, corrosion, or leakage from the container before shipping. Be sure to prevent damage to cargo by loading so as to avoid falling, dropping, or collapse. Ship in appropriate containers with denotation of the content in accordance with the relevant statutes and rules.

15. Regulatory information

National regulatory information

HSNO Approval Code	HSR002662
HSNO Classification	
Acute inhalation toxicity	Category 6.1E
Skin corrosion/irritation	Category 6.3A
Serious eye damage/eye irritation	Category 6.4A
Toxicity for reproduction	Category 6.8B
Flammable liquids	Category 3.1C
Acute aquatic toxicity	Category 9.1C
Ecotoxic to terrestrial invertebrates	Category 9.4C

16. Other information

Revision Note

Version	Changes
2.0	9

Revision Date: 2015-01-13
B11934758

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.

End of Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking

Product name	DP162 Marine Basecoat Binder
Product code	DP162

Intended use of the substance/preparation
Coating for professional use

Supplier	Axalta Coating Systems Australia Pty Limited
Street address	15 - 23 Melbourne Road, Riverstone NSW 2765, Australia
Telephone	
Telefax	

Emergency Information

Emergency telephone number	+(64) 9801 0034 NZ Poisons Information Centre: 0800 764 766 or +(64) 3 479 7248
Importer	Resene Automotive & Light Industrial
Street/Box	4 Te Apunga Place, Mt Wellington, Auckland, NZ
Nat.-Code/Postal code/City	
Telephone	+64 (09) 259 2738
Date of preparation	2015-01-29

2. Hazards identification

Classified as a Dangerous Good according to NZS 5433
Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001

HSNO Classification

Flammable liquids	Category 3.1C
Acute inhalation toxicity	Category 6.1E
Skin corrosion/irritation	Category 6.3A
Serious eye damage/eye irritation	Category 6.4A
Toxicity for reproduction	Category 6.8B
Acute aquatic toxicity	Category 9.1C

Endpoints which are “”not classified“”, “”cannot classified“” and “”not applicable“” are not shown

GHS-Labelling

Hazard symbols	
Signal word	Warning
Hazard statements	Flammable liquid and vapour. May be harmful if inhaled. Causes skin irritation. Causes serious eye irritation. Suspected of damaging fertility or the unborn child. Harmful to aquatic life.
Precautionary statements	Avoid release to the environment. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Obtain special instructions before use. Wear protective gloves/protective clothing/eye protection/face protection. IF exposed or concerned: Get medical advice/ attention. If eye irritation persists: Get medical advice/ attention.

Store in a well-ventilated place. Keep cool.

Other hazards which do not result in classification
None known.

3. Composition/information on ingredients

Pure substance/mixture
Mixture

CAS-No.	Chemical Name	Concentration	GHS Hazardous
123-86-4	n-butyl acetate	30 - 40%	√
1330-20-7	xylene	20 - 30%	√
100-41-4	ethylbenzene	5 - 10%	√
108-65-6	2-methoxy-1-methylethyl acetate	5 - 10%	√
624-41-9	2-methylbutyl acetate	1 - 3%	√
78-83-1	iso-butanol	1 - 3%	√
628-63-7	pentyl acetate	1 - 3%	√
108-88-3	toluene	0.1 - 0.3%	√

Non-regulated ingredients 20 - 30%

4. First aid measures

Eye contact
Remove contact lenses. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Seek medical advice.

Skin contact
Do NOT use solvents or thinners. Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. If skin irritation persists, call a physician.

Inhalation
Avoid inhalation of vapour or mist. Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

Ingestion
If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting. Keep at rest.

Most Important Symptoms/effects, acute and delayed

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Notes to physician
No data available on the product. See section 3 and 11 for hazardous ingredients found in the product.

5. Firefighting measures

Suitable extinguishing media
Universal aqueous film-forming foam, Carbon dioxide (CO2), Dry chemical, Water spray.

Extinguishing media which shall not be used for safety reasons
High volume water jet

Specific hazards
Flammable liquid. Vapours may form explosive mixtures with air. Remove all sources of ignition. Solvent vapours are heavier than air and may spread along floors. Do not allow run-off from fire fighting to enter drains or water courses. Never use pressure to empty container: container is not a pressure vessel. Always keep in containers of same material as the original one.

Special Protective Equipment and Fire Fighting Procedures
Wear as appropriate: Full protective flameproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. In the event of fire, cool tanks with water spray.

6. Accidental release measures

Personal precautions
Keep in a well-ventilated place. Keep away from sources of ignition. Comply with safety directives (see chapters 7 and 8). Do not inhale vapours.

Environmental precautions
Do not let product enter drains. Notify the respective authorities in accordance with local law in the case of contamination of rivers, lakes or waste water systems.

Methods for cleaning up
Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations. Clean preferably with a detergent; avoid use of solvents.

7. Handling and storage

Safe handling advice
Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation may charge electrostatically: always use grounded leads when transferring from one container to another. Operators should wear antistatic footwear and clothing. No sparking tools should be used. Avoid skin and eye contact. Do not breathe vapours or spray mist. Smoking, eating and drinking should be prohibited in the application area.

Storage
Suitable storage conditions
Observe label precautions. Store between 5 and 25 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Suitable container and packaging materials for safe storage
Always keep in containers made of the same material as the supply container.

8. Exposure controls/personal protection

National occupational exposure limits
Workplace Exposure Standards (WESs) 2002

Chemical Name		
n-butyl acetate	TWA	150 ppm
	STEL	200 ppm
	STEL	950 mg/m3
	TWA	713 mg/m3
xylene	TWA	50 ppm
	TWA	217 mg/m3
ethylbenzene	TWA	100 ppm
	STEL	125 ppm
	STEL	543 mg/m3
	TWA	434 mg/m3
iso-butanol	TWA	50 ppm
	TWA	152 mg/m3
pentyl acetate	TWA	100 ppm
	TWA	532 mg/m3
toluene	TWA	50 ppm
	TWA	188 mg/m3

Engineering measures
Provide adequate ventilation. This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

Protective equipment
Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

Respiratory protection
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Eye protection
Wear protective eyewear for protection against solvent spatter.

Hand protection
The breakthrough time of gloves is unknown for the product itself. The glove material given is recommended on basis of the substances in the preparation.

Chemical Name	Glove material	Glove thickness	Break through time
n-butyl acetate	Viton (R) ®	0.7 mm	10 min
	Nitrile rubber	0.33 mm	30 min
xylene	Nitrile rubber	0.33 mm	30 min
	Viton (R) ®	0.7 mm	480 min

The protective glove should be checked in each case for their work specific suitability (e.g. mechanical stability, product compatibility, and anti-static properties). When the intended use is for spray application a nitrile glove of the chemical resistance group 3 (e.g. Dermatril® glove) is to be used. After contamination, the glove has to be changed. If immersing the hands into the product is not avoidable (e.g. maintenance work) a butyl or fluorocarbon rubber glove should be used. When skin exposure may occur to materials specified in section 3 of this SDS, advice should be sought from the glove supplier as to appropriate type to use with this product and the permeation breakthrough times. Care should be taken when working with sharp edged articles as these can easily damage the gloves and make them ineffective. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. Damaged gloves or those showing signs of wear should be replaced immediately.

Skin and body protection
Wear suitable protective clothing. Personnel should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber.

Hygiene measures
Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use organic solvents!

9. Physical and chemical properties

Appearance

Form : liquid Colour: milky Odour: Characteristic Paint Odor Odor Threshold : no data available

pH	not applicable	
Freezing point	Not applicable.	
Boiling point	135 °C	
Flash point	30 °C	DIN 53213/ISO 1523
Evapouration rate	Slower than Ether	
Flammability		
Upper explosion limit	10.3 %	
Lower explosion limit	1 %	
Vapour pressure	8.4 hPa	
Solubility(ies)	moderate	
Vapour density	no data available	
Density	0.93 g/cm^3	DIN 53217/ISO 2811
Partition coefficient: n-octanol/water	no data available	
Ignition temperature	272 °C	DIN 51794
Decomposition temperature		
Viscosity (23 °C)	66 s	ISO 2431-1993 6 mm

10. Stability and reactivity

Stability
Stable

Hazardous polymerisation
Will not occur.

Conditions to avoid
Stable under recommended storage and handling conditions (see section 7).

Materials to avoid
Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Hazardous decomposition products
The product contains ingredients which, under certain conditions, also may release formaldehyde. If necessary, the precise concentration has to be be determined. When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

11. Toxicological information

Information on likely routes of exposure

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Delayed and immediate effects and also chronic effects from short and long term exposure:

Acute oral toxicity
not hazardous

Acute dermal toxicity
not hazardous

Acute inhalation toxicity

xylene	Category 4
ethylbenzene	Category 4
toluene	Category 5

% of unknown composition 1.5 %

Skin corrosion/irritation

n-butyl acetate	Category 3
xylene	Category 2
ethylbenzene	Category 3
2-methylbutyl acetate	Category 3
iso-butanol	Category 2
pentyl acetate	Category 3
toluene	Category 2

Serious eye damage/eye irritation

xylene	Category 2A
ethylbenzene	Category 2B
2-methoxy-1-methylethyl acetate	Category 2A
iso-butanol	Category 1
pentyl acetate	Category 2A
toluene	Category 2B

Respiratory sensitisation
Not classified according to GHS criteria

Skin sensitisation
Not classified according to GHS criteria

Germ cell mutagenicity
Not classified according to GHS criteria

Carcinogenicity
Not classified according to GHS criteria

Toxicity for reproduction

toluene	Category 2

Target Organ Systemic Toxicant - Single exposure
Not classified according to GHS criteria

Target Organ Systemic Toxicant - Repeated exposure
Not classified according to GHS criteria

Aspiration toxicity
Not classified according to GHS criteria

Numerical measures of toxicity (acute toxicity estimation (ATE),etc.)
No information available.

Symptoms related to the physical, chemical and toxicological characteristics
Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Through skin resorbtion, solvents can cause some of the effects described here. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.

12. Ecological information

Product contains environmentally hazardous substances and product is not classified per GHS.

Ecotoxicity effects
There are no data available on the product itself. The product should not be allowed to enter drains or watercourses.

Acute aquatic toxicity

n-butyl acetate	Category 3
xylene	Category 3
ethylbenzene	Category 2
toluene	Category 2

% of unknown composition 3%

Persistence and degradability
No information available.

Bioaccumulation
No information available.

Mobility in soil
No information available.

Other adverse effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods
Dispose of in accordance with local regulations.

Disposal considerations
A disposal process that converts the waste into energy is recommended. If this is not possible the hazardous waste must be disposed of by incineration.

14. Transport information

NZS5433

Proper shipping name:	PAINT
UN number:	1263
Hazard Class:	3
Packing group:	III
Hazchem Code:	3Y

IMDG (Sea transport)

Proper shipping name:	PAINT
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	III
Marine Pollutant:	no
EmS:	F-E,S-E

ICAO/IATA (Air transport)

Proper shipping name:	PAINT
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	III

Matters needing attention for transportation
Confirm that there is no breakage, corrosion, or leakage from the container before shipping. Be sure to prevent damage to cargo by loading so as to avoid falling, dropping, or collapse. Ship in appropriate containers with denotation of the content in accordance with the relevant statutes and rules.

15. Regulatory information

National regulatory information

HSNO Approval Code	HSR002662
HSNO Classification	
Acute inhalation toxicity	Category 6.1E
Skin corrosion/irritation	Category 6.3A
Serious eye damage/eye irritation	Category 6.4A
Toxicity for reproduction	Category 6.8B
Flammable liquids	Category 3.1C
Acute aquatic toxicity	Category 9.1C

16. Other information

Revision Note

Version	Changes
2.0	9

Revision Date: 2015-01-13
B11934780

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.

End of Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking

Product name	DP182 MARINE TOPGLOSS BINDER
Product code	DP182
reference number	DP182

Intended use of the substance/preparation
Coating for professional use

Supplier	Axalta Coating Systems Australia Pty Limited
Street address	15 - 23 Melbourne Road, Riverstone NSW 2765, Australia
Telephone	
Telefax	
Emergency telephone number	NZ Poisons Information Centre Ph: 0800 764 766 24-hour Emergency Number: (64)-9526 2501
Importer	Resene Paints Ltd.
Street/Box	4 Te Apunga Place, Mt Wellington, Auckland, NZ
Nat.-Code/Postal code/City	
Telephone	+64 (09) 259 2738
Date of preparation	2013-08-28

2. Hazards identification

Classified as a Dangerous Good according to NZS 5433
Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001

HSNO Classification

Flammable liquids	Category 3.1C
Skin corrosion/irritation	Category 6.3B
Serious eye damage/eye irritation	Category 6.4A
Respiratory sensitisation	Category 6.5A
Skin sensitisation	Category 6.5B
Target Organ Systemic Toxicant - Single exposure	Category 6.9B
Target Organ Systemic Toxicant - Repeated exposure	Category 6.9B
Acute aquatic toxicity	Category 9.1C
Chronic aquatic toxicity	Category 9.1C

Endpoints which are “”not classified“”, “”cannot classified“” and “”not applicable“” are not shown

GHS-Labelling

Hazard symbols	
Signal word	Danger
Hazard statements	Flammable liquid and vapour. Causes mild skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Causes damage to organs. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.
Precautionary statements	Contaminated work clothing should not be allowed out of the workplace. Keep container tightly closed.

Avoid release to the environment.
Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
Do not eat, drink or smoke when using this product.
Ground/bond container and receiving equipment.
In case of inadequate ventilation wear respiratory protection.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Take precautionary measures against static discharge.
Use explosion-proof electrical/ventilating/lighting equipment.
Use only non-sparking tools.
Wash hands after handling.
Wear protective gloves/ eye protection/ face protection.
If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician.
IF exposed: Call a POISON CENTER or doctor/ physician.
If eye irritation persists: Get medical advice/ attention.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
If skin irritation or rash occurs: Get medical advice/ attention.
Specific treatment (see supplemental first aid instructions on this label).
Store in a well-ventilated place. Keep cool.
Store locked up.
Dispose of contents/container in accordance with local regulation.

Other hazards which do not result in classification
Contains: methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction.

3. Composition/information on ingredients

Pure substance/mixture
Mixture

CAS-No.	Chemical Name	Concentration	GHS Hazardous
123-86-4	n-butyl acetate	10 - 20%	√
64742-95-6	solvent naphtha (petroleum), light arom. (<0,1% benzene)	5 - 10%	√
108-65-6	2-methoxy-1-methylethyl acetate	5 - 10%	√
1330-20-7	xylene	5 - 10%	√
95-63-6	1,2,4-trimethylbenzene	3 - 5%	√
100-41-4	ethylbenzene	1 - 3%	√
623-84-7	propane-1,2-diyl diacetate	1 - 3%	√
108-67-8	mesitylene	0.3 - 1.0%	√
82919-37-7	methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	0.3 - 1.0%	√
122-99-6	2-phenoxyethanol	0.1 - 0.3%	√
64-19-7	acetic acid	0.1 - 0.3%	√
98-82-8	cumene	0.1 - 0.3%	√
107-98-2	1-methoxy-2-propanol	0.1 - 0.3%	√

Non-regulated ingredients 50 - 60%

4. First aid measures

Eye contact
Remove contact lenses. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Seek medical advice.

Skin contact
Do NOT use solvents or thinners. Take off all contaminated clothing immediately. If skin irritation persists, call a physician.

Inhalation
Avoid inhalation of vapour or mist. Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

Ingestion
If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting. Keep at rest.

Most Important Symptoms/effects, acute and delayed

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Notes to physician
No data available on the product. See section 3 and 11 for hazardous ingredients found in the product.

5. Firefighting measures

Suitable extinguishing media
Universal aqueous film-forming foam, Carbon dioxide (CO2), Dry chemical, Water spray.

Extinguishing media which shall not be used for safety reasons
High volume water jet

Specific hazards
Flammable liquid. Vapours may form explosive mixtures with air. Remove all sources of ignition. Solvent vapours are heavier than air and may spread along floors. Do not allow run-off from fire fighting to enter drains or water courses. Never use pressure to empty container: container is not a pressure vessel. Always keep in containers of same material as the original one.

Special Protective Equipment and Fire Fighting Procedures
Wear as appropriate: Full protective flameproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. In the event of fire, cool tanks with water spray.

6. Accidental release measures

Personal precautions
Keep in a well-ventilated place. Keep away from sources of ignition. Comply with safety directives (see chapters 7 and 8). Do not inhale vapours.

Environmental precautions
Do not let product enter drains. Notify the respective authorities in accordance with local law in the case of contamination of rivers, lakes or waste water systems.

Methods for cleaning up
Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations. Clean preferably with a detergent; avoid use of solvents.

7. Handling and storage

Handling
Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Safe handling advice
Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation may charge electrostatically: always use grounded leads when transferring from one container to another. Operators should wear antistatic footwear and clothing. No sparking tools should be used. Avoid skin and eye contact. Do not breathe vapours or spray mist. Smoking, eating and drinking should be prohibited in the application area.

Storage
Suitable storage conditions
Observe label precautions. Store between 5 and 25 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Suitable container and packaging materials for safe storage
Always keep in containers made of the same material as the supply container.

8. Exposure controls/personal protection

Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

National occupational exposure limits
Workplace Exposure Standards (WESs) 2002

Chemical Name		
n-butyl acetate	TWA	150 ppm
	STEL	200 ppm
	STEL	950 mg/m3
	TWA	713 mg/m3
xylene	TWA	50 ppm
	TWA	217 mg/m3
1,2,4-trimethylbenzene	TWA	25 ppm
	TWA	123 mg/m3
ethylbenzene	TWA	100 ppm
	STEL	125 ppm
	STEL	543 mg/m3
	TWA	434 mg/m3
mesitylene	TWA	25 ppm
	TWA	25 ppm
	TWA	123 mg/m3
	TWA	123 mg/m3
acetic acid	TWA	10 ppm
	STEL	15 ppm
	STEL	37 mg/m3

Chemical Name		
	TWA	25 mg/m3
cumene	TWA	25 ppm
	STEL	75 ppm
	STEL	375 mg/m3
	TWA	125 mg/m3
1-methoxy-2-propanol	TWA	100 ppm
	STEL	150 ppm
	STEL	553 mg/m3
	TWA	369 mg/m3

Engineering measures
Provide adequate ventilation. This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

Protective equipment
Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

Respiratory protection
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Eye protection
Wear protective eyewear for protection against solvent spatter.

Hand protection
The breakthrough time of gloves is unknown for the product itself. The glove material given is recommended on basis of the substances in the preparation.

Chemical Name	Glove material	Glove thickness	Break through time
n-butyl acetate	Viton (R) ®	0.7 mm	10 min
	Nitrile rubber	0.33 mm	30 min
solvent naphtha (petroleum), light arom. (<0,1% benzene)	Viton (R) ®	0.7 mm	30 min
xylene	Nitrile rubber	0.33 mm	30 min
	Viton (R) ®	0.7 mm	480 min

The protective glove should be checked in each case for their work specific suitability (e.g. mechanical stability, product compatibility, and anti-static properties). When the intended use is for spray application a nitrile glove of the chemical resistance group 3 (e.g. Dermatril® glove) is to be used. After contamination, the glove has to be changed. If immersing the hands into the product is not avoidable (e.g. maintenance work) a butyl or fluorocarbon rubber glove should be used. When skin exposure may occur to materials specified in section 3 of this SDS, advice should be sought from the glove supplier as to appropriate type to use with this product and the permeation breakthrough times. Care should be taken when working with sharp edged articles as these can easily damage the gloves and make them ineffective. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. Damaged gloves or those showing signs of wear should be replaced immediately.

Skin and body protection
Wear suitable protective clothing. Personnel should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber.

Hygiene measures
Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use organic solvents!

9. Physical and chemical properties

Appearance

Form : liquid Colour: milky Odor Threshold : no data available

pH	not applicable	
Freezing point	Not applicable.	
Boiling point	135 °C	
Flash point	26 °C	
Evapouration rate	Slower than Ether	
Flammability		
Upper explosion limit	9.8 %	
Lower explosion limit	0.9 %	
Vapour pressure	4.0 hPa	
Solubility(ies)	moderate	
Vapour density	no data available	
Density	0.99 g/cm^3	DIN 53217/ISO 2811
Partition coefficient: n-octanol/water	no data available	
Ignition temperature	272 °C	DIN 51794
Decomposition temperature		
Viscosity (23 °C)	45 s	ISO 2431-1993 6 mm

10. Stability and reactivity

Stability
Stable

Hazardous polymerisation
Will not occur.

Conditions to avoid
Stable under recommended storage and handling conditions (see section 7).

Materials to avoid
Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Hazardous decomposition products
When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

11. Toxicological information

Information on likely routes of exposure

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Delayed and immediate effects and also chronic effects from short and long term exposure:

Acute oral toxicity
not hazardous

Acute dermal toxicity
Not classified according to GHS criteria

Acute inhalation toxicity
not hazardous

% of unknown composition 43.1 %

Skin corrosion/irritation

n-butyl acetate	Category 3
solvent naphtha (petroleum), light arom. (<0,1% benzene)	Category 3
xylene	Category 2
1,2,4-trimethylbenzene	Category 2
ethylbenzene	Category 3
propane-1,2-diyl diacetate	Category 3
mesitylene	Category 3
acetic acid	Category 1A
1-methoxy-2-propanol	Category 3

Serious eye damage/eye irritation

2-methoxy-1-methylethyl acetate	Category 2
xylene	Category 2
1,2,4-trimethylbenzene	Category 2
ethylbenzene	Category 2B
propane-1,2-diyl diacetate	Category 2A
mesitylene	Category 2A
2-phenoxyethanol	Category 2
acetic acid	Category 1
1-methoxy-2-propanol	Category 2B

Respiratory sensitisation

acetic acid	Category 1

Skin sensitisation

methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Category 1

Germ cell mutagenicity
Not classified according to GHS criteria

Carcinogenicity
Not classified according to GHS criteria

Toxicity for reproduction
Not classified according to GHS criteria

Target Organ Systemic Toxicant - Single exposure

- **Inhalation**

  Respiratory system 1-methoxy-2-propanol, 2-methoxy-1-methylethyl acetate, 1,2,4-trimethylbenzene, cumene, propane-1,2-diyl diacetate

  Central nervous system 1,2,4-trimethylbenzene, propane-1,2-diyl diacetate

Target Organ Systemic Toxicant - Repeated exposure

- **Skin Absorption**

Kidney 2-phenoxyethanol

Central nervous system 1-methoxy-2-propanol, 1,2,4-trimethylbenzene

- **Inhalation**

  Respiratory system 1-methoxy-2-propanol

Aspiration toxicity
Not classified according to GHS criteria

Numerical measures of toxicity (acute toxicity estimation (ATE),etc.)
No information available.

Symptoms related to the physical, chemical and toxicological characteristics
Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Through skin resorbtion, solvents can cause some of the effects described here. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.

12. Ecological information

Product contains environmentally hazardous substances and product is not classified per GHS.

Ecotoxicity effects
There are no data available on the product itself. The product should not be allowed to enter drains or watercourses.

Acute aquatic toxicity

n-butyl acetate	Category 3
solvent naphtha (petroleum), light arom. (<0,1% benzene)	Category 2
xylene	Category 3
1,2,4-trimethylbenzene	Category 2
ethylbenzene	Category 2
propane-1,2-diyl diacetate	Category 3
mesitylene	Category 2
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Category 1
cumene	Category 2

Chronic aquatic toxicity

solvent naphtha (petroleum), light arom. (<0,1% benzene)	Category 2
1,2,4-trimethylbenzene	Category 2
mesitylene	Category 2
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Category 1
cumene	Category 2

% of unknown composition 44.4%

Persistence and degradability
No information available.

Bioaccumulation
No information available.

Mobility in soil
No information available.

Other adverse effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods
Dispose of in accordance with local regulations.

Disposal considerations
A disposal process that converts the waste into energy is recommended. If this is not possible the hazardous waste must be disposed of by incineration.

14. Transport information

NZS5433

Proper shipping name:	PAINT
UN number:	1263
Hazard Class:	3
Packing group:	III
Hazchem Code:	3Y

IMDG (Sea transport)

Proper shipping name:	PAINT
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	III
Marine Pollutant:	yes [solvent naphtha (petroleum), light arom. (<0,1% benzene)]
EmS:	F-E,S-E

ICAO/IATA (Air transport)

Proper shipping name:	PAINT
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	III

Matters needing attention for transportation
Confirm that there is no breakage, corrosion, or leakage from the container before shipping. Be sure to prevent damage to cargo by loading so as to avoid falling, dropping, or collapse. Ship in appropriate containers with denotation of the content in accordance with the relevant statutes and rules.

15. Regulatory information

National regulatory information

HSNO Approval Code	HSR002662
HSNO Classification	
Skin corrosion/irritation	Category 6.3B
Serious eye damage/eye irritation	Category 6.4A
Respiratory sensitisation	Category 6.5A
Skin sensitisation	Category 6.5B
Target Organ Systemic Toxicant - Single exposure	Category 6.9B
Target Organ Systemic Toxicant - Repeated exposure	Category 6.9B
Flammable liquids	Category 3.1C
Acute aquatic toxicity	Category 9.1C
Chronic aquatic toxicity	Category 9.1C

16. Other information

Revision Note

Version	Changes
2.0	2, 3, 5, 7, 8, 9, 11, 12, 15, 16

Version	Changes
Revision Date:	2013-08-26
B12141873	

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.

1. Identification of the substance/mixture and of the company/undertaking

Product name	DP287 Marine 2K Topgloss Binder
Product code	DP287

Intended use of the substance/preparation
Coating for professional use

Supplier	Axalta Coating Systems Australia Pty Limited
Street address	15 - 23 Melbourne Road, Riverstone NSW 2765, Australia
Telephone	
Telefax	

Emergency Information

Emergency telephone number	+(64) 9801 0034 NZ Poisons Information Centre: 0800 764 766 or +(64) 3 479 7248
Importer	Resene Automotive & Light Industrial
Street/Box	4 Te Apunga Place, Mt Wellington, Auckland, NZ
Nat.-Code/Postal code/City	
Telephone	+64 (09) 259 2738
Date of preparation	2015-01-29

2. Hazards identification

Classified as a Dangerous Good according to NZS 5433
Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001

HSNO Classification

Flammable liquids	Category 3.1C
Skin corrosion/irritation	Category 6.3A
Skin sensitisation	Category 6.5B
Acute aquatic toxicity	Category 9.1C
Chronic aquatic toxicity	Category 9.1C

Endpoints which are “”not classified“”, “”cannot classified“” and “”not applicable“” are not shown

GHS-Labelling

Hazard symbols	
Signal word	Warning
Hazard statements	Flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.
Precautionary statements	Avoid release to the environment. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/ vapours/ spray. If skin irritation or rash occurs: Get medical advice/ attention. Wash contaminated clothing before reuse. Store in a well-ventilated place. Keep cool.

Other hazards which do not result in classification
Contains: methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction.

3. Composition/information on ingredients

Pure substance/mixture
Mixture

CAS-No.	Chemical Name	Concentration	GHS Hazardous
123-86-4	n-butyl acetate	10 - 20%	√
98516-30-4	ethoxypropyl acetate	5 - 10%	√
108-65-6	2-methoxy-1-methylethyl acetate	5 - 10%	√
1330-20-7	xylene	5 - 10%	√
95-63-6	1,2,4-trimethylbenzene	3 - 5%	√
64742-95-6	solvent naphtha (petroleum), light arom. (<0,1% benzene)	3 - 5%	√
No information available.	pentyl acetate mixture of isomers	3 - 5%	√
41556-26-7	bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	1 - 3%	√
100-41-4	ethylbenzene	1 - 3%	√
No information available.	A mixture of: α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-hydroxypoly(oxyethylene); α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)	1 - 3%	√
108-67-8	mesitylene	0.3 - 1.0%	√
82919-37-7	methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	0.3 - 1.0%	√
122-99-6	2-phenoxyethanol	0.1 - 0.3%	√
98-82-8	cumene	0.1 - 0.3%	√

Non-regulated ingredients 40 - 50%

4. First aid measures

Eye contact
Remove contact lenses. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Seek medical advice.

Skin contact
Do NOT use solvents or thinners. Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. If skin irritation persists, call a physician.

Inhalation
Avoid inhalation of vapour or mist. Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

Ingestion
If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting. Keep at rest.

Most Important Symptoms/effects, acute and delayed

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Notes to physician
No data available on the product. See section 3 and 11 for hazardous ingredients found in the product.

5. Firefighting measures

Suitable extinguishing media
Universal aqueous film-forming foam, Carbon dioxide (CO2), Dry chemical, Water spray.

Extinguishing media which shall not be used for safety reasons
High volume water jet

Specific hazards
The product is not flammable. Avoid heating above flash point. Do not allow run-off from fire fighting to enter drains or water courses. Never use pressure to empty container: container is not a pressure vessel. Always keep in containers of same material as the original one.

Special Protective Equipment and Fire Fighting Procedures
Wear as appropriate: Full protective flameproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. In the event of fire, cool tanks with water spray.

6. Accidental release measures

Personal precautions
Keep in a well-ventilated place. Keep away from sources of ignition. Comply with safety directives (see chapters 7 and 8). Do not inhale vapours.

Environmental precautions
Do not let product enter drains. Notify the respective authorities in accordance with local law in the case of contamination of rivers, lakes or waste water systems.

Methods for cleaning up
Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations. Clean preferably with a detergent; avoid use of solvents.

7. Handling and storage

Handling
Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Safe handling advice
Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation may charge electrostatically: always use grounded leads when transferring from one container to another. Operators should wear antistatic footwear and clothing. No sparking tools should be used. Avoid skin and eye contact. Do not breathe vapours or spray mist. Smoking, eating and drinking should be prohibited in the application area.

Storage
Suitable storage conditions
Observe label precautions. Store between 5 and 25 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Suitable container and packaging materials for safe storage
Always keep in containers made of the same material as the supply container.

8. Exposure controls/personal protection

Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

National occupational exposure limits
Workplace Exposure Standards (WESs) 2002

Chemical Name		
n-butyl acetate	TWA	150 ppm
	STEL	200 ppm
	STEL	950 mg/m3
	TWA	713 mg/m3
xylene	TWA	50 ppm
	TWA	217 mg/m3
1,2,4-trimethylbenzene	TWA	25 ppm
	TWA	123 mg/m3
ethylbenzene	TWA	100 ppm
	STEL	125 ppm
	STEL	543 mg/m3
	TWA	434 mg/m3
mesitylene	TWA	25 ppm
	TWA	25 ppm
	TWA	123 mg/m3
	TWA	123 mg/m3
cumene	TWA	25 ppm
	STEL	75 ppm
	STEL	375 mg/m3
	TWA	125 mg/m3

Engineering measures
Provide adequate ventilation. This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

Protective equipment
Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

Respiratory protection
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Eye protection
Wear protective eyewear for protection against solvent spatter.

Hand protection
The breakthrough time of gloves is unknown for the product itself. The glove material given is recommended on basis of the substances in the preparation.

Chemical Name	Glove material	Glove thickness	Break through time
n-butyl acetate	Viton (R) ®	0.7 mm	10 min
	Nitrile rubber	0.33 mm	30 min
xylene	Nitrile rubber	0.33 mm	30 min
	Viton (R) ®	0.7 mm	480 min
solvent naphtha (petroleum), light arom. (<0,1% benzene)	Viton (R) ®	0.7 mm	30 min

The protective glove should be checked in each case for their work specific suitability (e.g. mechanical stability, product compatibility, and anti-static properties). When the intended use is for spray application a nitrile glove of the chemical resistance group 3 (e.g. Dermatril® glove) is to be used. After contamination, the glove has to be changed. If immersing the hands into the product is not avoidable (e.g. maintenance work) a butyl or fluorocarbon rubber glove should be used. When skin exposure may occur to materials specified in section 3 of this SDS, advice should be sought from the glove supplier as to appropriate type to use with this product and the permeation breakthrough times. Care should be taken when working with sharp edged articles as these can easily damage the gloves and make them ineffective. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. Damaged gloves or those showing signs of wear should be replaced immediately.

Skin and body protection
Wear suitable protective clothing. Personnel should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber.

Hygiene measures
Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use organic solvents!

9. Physical and chemical properties

Appearance

Form : liquid Colour: clear Odor Threshold : no data available

pH	not applicable	
Freezing point	Not applicable.	
Boiling point	135 °C	
Flash point	38 °C	DIN 53213/ISO 1523
Evapouration rate	Slower than Ether	
Flammability		
Upper explosion limit	10.3 %	
Lower explosion limit	0.9 %	
Vapour pressure	3.6 hPa	

Solubility(ies)	moderate	
Vapour density	no data available	
Density	1.01 g/cm^3	DIN 53217/ISO 2811
Partition coefficient: n-octanol/water	no data available	
Ignition temperature	272 °C	DIN 51794
Decomposition temperature		
Viscosity (23 °C)	<20 s	ISO 2431-1993 6 mm

10. Stability and reactivity

Stability
Stable

Hazardous polymerisation
Will not occur.

Conditions to avoid
Stable under recommended storage and handling conditions (see section 7).

Materials to avoid
Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Hazardous decomposition products
When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

11. Toxicological information

Information on likely routes of exposure

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Delayed and immediate effects and also chronic effects from short and long term exposure:

Acute oral toxicity
not hazardous

Acute dermal toxicity
not hazardous

Acute inhalation toxicity
not hazardous

% of unknown composition 0 %

Skin corrosion/irritation

n-butyl acetate	Category 3
xylene	Category 2
1,2,4-trimethylbenzene	Category 2
solvent naphtha (petroleum), light arom. (<0,1% benzene)	Category 3
pentyl acetate mixture of isomers	Category 3
ethylbenzene	Category 3
mesitylene	Category 3

Serious eye damage/eye irritation
Not classified according to GHS criteria

Respiratory sensitisation
Not classified according to GHS criteria

Skin sensitisation

bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate
A mixture of: α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-hydroxypoly(oxyethylene); α-3-(3-(2H-benzotriazol-2-yl)-5-tert-b
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

Germ cell mutagenicity
Not classified according to GHS criteria

Carcinogenicity
Not classified according to GHS criteria

Toxicity for reproduction
Not classified according to GHS criteria

Target Organ Systemic Toxicant - Single exposure
Not classified according to GHS criteria

Target Organ Systemic Toxicant - Repeated exposure
Not classified according to GHS criteria

Aspiration toxicity
Not classified according to GHS criteria

Numerical measures of toxicity (acute toxicity estimation (ATE),etc.)
No information available.

Symptoms related to the physical, chemical and toxicological characteristics
Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Through skin resorbtion, solvents can cause some of the effects described here. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.

12. Ecological information

Product contains environmentally hazardous substances and product is not classified per GHS.

Ecotoxicity effects
There are no data available on the product itself. The product should not be allowed to enter drains or watercourses.

Acute aquatic toxicity

n-butyl acetate	Category 3
xylene	Category 3
1,2,4-trimethylbenzene	Category 2
solvent naphtha (petroleum), light arom. (<0,1% benzene)	Category 2
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	Category 1
ethylbenzene	Category 2
mesitylene	Category 2
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Category 1
cumene	Category 2

Chronic aquatic toxicity

1,2,4-trimethylbenzene
solvent naphtha (petroleum), light arom. (<0,1% benzene)
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate
A mixture of: α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-hydroxypoly(oxyethylene); α-3-(3-(2H-benzotriazol-2-yl)-5-tert-b
mesitylene
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate
cumene

% of unknown composition 11%

Persistence and degradability
No information available.

Bioaccumulation
No information available.

Mobility in soil
No information available.

Other adverse effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods
Dispose of in accordance with local regulations.

Disposal considerations
A disposal process that converts the waste into energy is recommended. If this is not possible the hazardous waste must be disposed of by incineration.

14. Transport information

NZS5433

Proper shipping name:	PAINT
UN number:	1263
Hazard Class:	3
Packing group:	III
Hazchem Code:	3Y

IMDG (Sea transport)

Proper shipping name:	PAINT
UN number:	1263
Hazard Class:	3

Subsidiary Hazard Class:	Not applicable.
Packing group:	III
Marine Pollutant:	no
EmS:	F-E,S-E

ICAO/IATA (Air transport)

Proper shipping name:	PAINT
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	III

Matters needing attention for transportation

Confirm that there is no breakage, corrosion, or leakage from the container before shipping. Be sure to prevent damage to cargo by loading so as to avoid falling, dropping, or collapse. Ship in appropriate containers with denotation of the content in accordance with the relevant statutes and rules.

15. Regulatory information

National regulatory information

HSNO Approval Code	HSR002662
HSNO Classification	
Skin corrosion/irritation	Category 6.3A
Skin sensitisation	Category 6.5B
Flammable liquids	Category 3.1C
Acute aquatic toxicity	Category 9.1C
Chronic aquatic toxicity	Category 9.1C

16. Other information

Revision Note

Version	Changes
1.0	

Revision Date: 2015-01-29
B12905596

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.

End of Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking

Product name	DP2100 Marine HS Activator (Standard)
Product code	DP2100

Intended use of the substance/preparation
Hardener for professional use

Supplier	Axalta Coating Systems Australia Pty Limited
Street address	15 - 23 Melbourne Road, Riverstone NSW 2765, Australia
Telephone	
Telefax	

Emergency Information

Emergency telephone number	+(64) 9801 0034 NZ Poisons Information Centre: 0800 764 766 or +(64) 3 479 7248
Importer	Resene Automotive & Light Industrial
Street/Box	4 Te Apunga Place, Mt Wellington, Auckland, NZ
Nat.-Code/Postal code/City	
Telephone	+64 (09) 259 2738
Date of preparation	2015-01-29

2. Hazards identification

Classified as a Dangerous Good according to NZS 5433
Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001

HSNO Classification

Flammable liquids	Category 3.1C
Skin corrosion/irritation	Category 6.3B
Respiratory sensitisation	Category 6.5A
Skin sensitisation	Category 6.5B
Acute aquatic toxicity	Category 9.1C
Chronic aquatic toxicity	Category 9.1C

Endpoints which are “”not classified“”, “”cannot classified“” and “”not applicable“” are not shown

GHS-Labelling

Hazard symbols	
Signal word	Danger
Hazard statements	Flammable liquid and vapour. Causes mild skin irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.
Precautionary statements	Avoid release to the environment. In case of inadequate ventilation wear respiratory protection. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/ vapours/ spray. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician.

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
If skin irritation or rash occurs: Get medical advice/ attention.
Wash contaminated clothing before reuse.
Store in a well-ventilated place. Keep cool.

Other hazards which do not result in classification
Contains isocyanates. See information supplied by the manufacturer. Contains: bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate; hexamethylene-di-isocyanate; methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction.

3. Composition/information on ingredients

Pure substance/mixture
Mixture

CAS-No.	Chemical Name	Concentration	GHS Hazardous
28182-81-2	Hexamethylene diisocyanate, oligomers	70 - 80%	√
123-86-4	n-butyl acetate	10 - 20%	√
1330-20-7	xylene	5 - 10%	√
95-63-6	1,2,4-trimethylbenzene	1 - 3%	√
64742-95-6	solvent naphtha (petroleum), light arom. (<0,1% benzene)	1 - 3%	√
100-41-4	ethylbenzene	1 - 3%	√
41556-26-7	bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	0.3 - 1.0%	√
108-67-8	mesitylene	0.1 - 0.3%	√
822-06-0	hexamethylene-di-isocyanate	0.1 - 0.3%	√
82919-37-7	methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	0.1 - 0.3%	√

Non-regulated ingredients 0.1 - 1.0%

4. First aid measures

Eye contact
Remove contact lenses. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Seek medical advice.

Skin contact
Do NOT use solvents or thinners. Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. If skin irritation persists, call a physician.

Inhalation
Avoid inhalation of vapour or mist. Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

Ingestion
If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting. Keep at rest.

Most Important Symptoms/effects, acute and delayed

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. Exposure to isocyanates may cause respiratory sensitization. This effect may be permanent. Symptoms include an asthma-like reaction with shortness of breath, wheezing, cough or permanent lung sensitization. This effect may be delayed for several hours after exposure. Repeated overexposure to isocyanates may cause a decrease in lung function, which may be permanent. Individuals with lung or breathing problems or prior reactions to isocyanates must not be exposed to vapors or spray mist of this product.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis. Skin contact my cause skin sensitization.

Notes to physician
No data available on the product. See section 3 and 11 for hazardous ingredients found in the product.

5. Firefighting measures

Suitable extinguishing media
Universal aqueous film-forming foam, Carbon dioxide (CO2), Dry chemical, Water spray.

Extinguishing media which shall not be used for safety reasons
High volume water jet

Specific hazards
Flammable liquid. Vapours may form explosive mixtures with air. Remove all sources of ignition. Solvent vapours are heavier than air and may spread along floors. Do not allow run-off from fire fighting to enter drains or water courses. Never use pressure to empty container: container is not a pressure vessel. Always keep in containers of same material as the original one.

Special Protective Equipment and Fire Fighting Procedures
Wear as appropriate: Full protective flameproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. In the event of fire, cool tanks with water spray.

6. Accidental release measures

Personal precautions
Keep in a well-ventilated place. Keep away from sources of ignition. Comply with safety directives (see chapters 7 and 8). Do not inhale vapours.

Environmental precautions
Do not let product enter drains. Notify the respective authorities in accordance with local law in the case of contamination of rivers, lakes or waste water systems.

Methods for cleaning up
Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations. The contaminated area should be cleaned up immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): water (45 parts), ethanol or isopropyl alcohol (50 parts), concentrated (d : 0,880) ammonia solution (5 parts). A non-flammable alternative is sodium carbonate (5 parts), water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in non-sealed container. Once this stage is reached, close container and dispose according to local regulations (see section 13).

7. Handling and storage

Handling
Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Safe handling advice
Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation may charge electrostatically: always use grounded leads when transferring from one container to another. Operators should wear antistatic footwear and clothing. No sparking tools should be used. Avoid skin and eye contact. Do not breathe vapours or spray mist. Smoking, eating and drinking should be prohibited in the application area.

Storage
Suitable storage conditions
Observe label precautions. Store between 5 and 25 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Suitable container and packaging materials for safe storage
Always keep in containers made of the same material as the supply container.

8. Exposure controls/personal protection

Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

National occupational exposure limits
Workplace Exposure Standards (WESs) 2002

Chemical Name		
Hexamethylene diisocyanate, oligomers	STEL	0.07 mg/m3
	TWA	0.02 mg/m3
n-butyl acetate	TWA	150 ppm
	STEL	200 ppm
	STEL	950 mg/m3
	TWA	713 mg/m3
xylene	TWA	50 ppm
	TWA	217 mg/m3
1,2,4-trimethylbenzene	TWA	25 ppm
	TWA	123 mg/m3
ethylbenzene	TWA	100 ppm
	STEL	125 ppm
	STEL	543 mg/m3
	TWA	434 mg/m3
mesitylene	TWA	25 ppm
	TWA	25 ppm
	TWA	123 mg/m3
	TWA	123 mg/m3
hexamethylene-di-isocyanate	STEL	0.07 mg/m3

Chemical Name		
	TWA	0.02 mg/m3

Engineering measures
Provide adequate ventilation. Air-fed protective respiratory equipment must be worn by spray operator even when good ventilation is provided.

Protective equipment
Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

Respiratory protection
For spraying: air-fed respirator. For operations other than spraying: in well ventilated areas, air-fed respirators could be replaced by a combination of charcoal filter and particulate filter mask.

Eye protection
Wear protective eyewear for protection against solvent spatter.

Hand protection
The breakthrough time of gloves is unknown for the product itself. The glove material given is recommended on basis of the substances in the preparation.

Chemical Name	Glove material	Glove thickness	Break through time
n-butyl acetate	Viton (R) ®	0.7 mm	10 min
	Nitrile rubber	0.33 mm	30 min
xylene	Nitrile rubber	0.33 mm	30 min
	Viton (R) ®	0.7 mm	480 min
solvent naphtha (petroleum), light arom. (<0,1% benzene)	Viton (R) ®	0.7 mm	30 min

The protective glove should be checked in each case for their work specific suitability (e.g. mechanical stability, product compatibility, and anti-static properties). When the intended use is for spray application a nitrile glove of the chemical resistance group 3 (e.g. Dermatril® glove) is to be used. After contamination, the glove has to be changed. If immersing the hands into the product is not avoidable (e.g. maintenance work) a butyl or fluorocarbon rubber glove should be used. When skin exposure may occur to materials specified in section 3 of this SDS, advice should be sought from the glove supplier as to appropriate type to use with this product and the permeation breakthrough times. Care should be taken when working with sharp edged articles as these can easily damage the gloves and make them ineffective. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. Damaged gloves or those showing signs of wear should be replaced immediately.

Skin and body protection
Wear suitable protective clothing. Personnel should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber.

Hygiene measures
Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use organic solvents!

9. Physical and chemical properties

Appearance

Form : liquid Colour: clear Odor Threshold : no data available

pH	not applicable

Freezing point	Not applicable.	
Boiling point	104 °C	
Flash point	24 °C	DIN 53213/ISO 1523
Evapouration rate	Slower than Ether	
Flammability		
Upper explosion limit	10.3 %	
Lower explosion limit	1 %	
Vapour pressure	3.3 hPa	
Solubility(ies)	partly miscible	
Vapour density	no data available	
Density	1.06 g/cm^3	DIN 53217/ISO 2811
Partition coefficient: n-octanol/water	no data available	
Ignition temperature	415 °C	DIN 51794
Decomposition temperature		
Viscosity (23 °C)	<20 s	ISO 2431-1993 6 mm

10. Stability and reactivity

Stability
Stable

Hazardous polymerisation
Will not occur.

Conditions to avoid
Stable under recommended storage and handling conditions (see section 7).

Materials to avoid
Keep away from oxidising agents and strongly acid or alkaline materials. Amines and alcohols cause exothermic reactions. Mixture reacts slowly with water resulting in evolution of CO2. Evolution of CO2 in closed containers causes overpressure and produces a risk of bursting.

Hazardous decomposition products
When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen as well as hydrogen cyanide, amines, alcohols and water.

11. Toxicological information

Information on likely routes of exposure

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. Exposure to isocyanates may cause respiratory sensitization. This effect may be permanent. Symptoms include an asthma-like reaction with shortness of breath, wheezing, cough or permanent lung sensitization. This effect may be delayed for several hours after exposure. Repeated overexposure to isocyanates may cause a decrease in lung function, which may be permanent. Individuals with lung or breathing problems or prior reactions to isocyanates must not be exposed to vapors or spray mist of this product.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Delayed and immediate effects and also chronic effects from short and long term exposure:

Acute oral toxicity
not hazardous

Acute dermal toxicity
not hazardous

Acute inhalation toxicity
not hazardous

% of unknown composition 0 %

Skin corrosion/irritation

n-butyl acetate	Category 3
xylene	Category 2
1,2,4-trimethylbenzene	Category 2
solvent naphtha (petroleum), light arom. (<0,1% benzene)	Category 3
ethylbenzene	Category 3
mesitylene	Category 3
hexamethylene-di-isocyanate	Category 1C

Serious eye damage/eye irritation
Not classified according to GHS criteria

Respiratory sensitisation

Hexamethylene diisocyanate, oligomers	Category 1
hexamethylene-di-isocyanate	Category 1

Skin sensitisation

Hexamethylene diisocyanate, oligomers	Category 1
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	Category 1
hexamethylene-di-isocyanate	Category 1
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Category 1

Germ cell mutagenicity
Not classified according to GHS criteria

Carcinogenicity
Not classified according to GHS criteria

Toxicity for reproduction
Not classified according to GHS criteria

Target Organ Systemic Toxicant - Single exposure
Not classified according to GHS criteria

Target Organ Systemic Toxicant - Repeated exposure
Not classified according to GHS criteria

Aspiration toxicity
Not classified according to GHS criteria

Numerical measures of toxicity (acute toxicity estimation (ATE),etc.)
No information available.

Symptoms related to the physical, chemical and toxicological characteristics
Based on the properties of the isocyanate components and considering toxicological data on similar products, the following applies: This formulation may cause acute irritation and/or sensitization of the respiratory system leading to an asthmatic condition, wheeziness and a tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Repeated exposure may lead to permanent respiratory disability. Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous

system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Through skin resorbtion, solvents can cause some of the effects described here. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage. Components of the product may be absorbed into the body through the skin.

12. Ecological information

Product contains environmentally hazardous substances and product is not classified per GHS.

Ecotoxicity effects
There are no data available on the product itself. The product should not be allowed to enter drains or watercourses.

Acute aquatic toxicity

n-butyl acetate	Category 3
xylene	Category 3
1,2,4-trimethylbenzene	Category 2
solvent naphtha (petroleum), light arom. (<0,1% benzene)	Category 2
ethylbenzene	Category 2
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	Category 1
mesitylene	Category 2
hexamethylene-di-isocyanate	Category 3
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Category 1

Chronic aquatic toxicity

1,2,4-trimethylbenzene	Category 2
solvent naphtha (petroleum), light arom. (<0,1% benzene)	Category 2
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	Category 1
mesitylene	Category 2
hexamethylene-di-isocyanate	Category 3
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Category 1

% of unknown composition 0%

Persistence and degradability
No information available.

Bioaccumulation
No information available.

Mobility in soil
No information available.

Other adverse effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods
Dispose of in accordance with local regulations.

Disposal considerations
A disposal process that converts the waste into energy is recommended. If this is not possible the hazardous waste must be disposed of by incineration.

14. Transport information

NZS5433

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Packing group:	III
Hazchem Code:	3Y

IMDG (Sea transport)

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	III
Marine Pollutant:	no
EmS:	F-E,S-E

ICAO/IATA (Air transport)

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	III

Matters needing attention for transportation

Confirm that there is no breakage, corrosion, or leakage from the container before shipping. Be sure to prevent damage to cargo by loading so as to avoid falling, dropping, or collapse. Ship in appropriate containers with denotation of the content in accordance with the relevant statutes and rules.

15. Regulatory information

National regulatory information

HSNO Approval Code	HSR002662
HSNO Classification	
Skin corrosion/irritation	Category 6.3B
Respiratory sensitisation	Category 6.5A
Skin sensitisation	Category 6.5B
Flammable liquids	Category 3.1C
Acute aquatic toxicity	Category 9.1C
Chronic aquatic toxicity	Category 9.1C

16. Other information

Revision Note

Version	Changes
2.1	9

Revision Date: 2015-01-29
B12821910

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.

End of Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking

Product name	DP2110 Marine HS Activator (Slow)
Product code	DP2110

Intended use of the substance/preparation
Hardener for professional use

Supplier	Axalta Coating Systems Australia Pty Limited
Street address	15 - 23 Melbourne Road, Riverstone NSW 2765, Australia
Telephone	
Telefax	

Emergency Information

Emergency telephone number	+(64) 9801 0034 NZ Poisons Information Centre: 0800 764 766 or +(64) 3 479 7248
Importer	Resene Automotive & Light Industrial
Street/Box	4 Te Apunga Place, Mt Wellington, Auckland, NZ
Nat.-Code/Postal code/City	
Telephone	+64 (09) 259 2738
Date of preparation	2015-01-29

2. Hazards identification

Classified as a Dangerous Good according to NZS 5433
Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001

HSNO Classification

Flammable liquids	Category 3.1C
Skin corrosion/irritation	Category 6.3B
Respiratory sensitisation	Category 6.5A
Skin sensitisation	Category 6.5B
Chronic aquatic toxicity	Category 9.1C

Endpoints which are “”not classified“”, “”cannot classified“” and “”not applicable“” are not shown

GHS-Labelling

Hazard symbols	
Signal word	Danger
Hazard statements	Flammable liquid and vapour. Causes mild skin irritation. May cause an allergic skin reaction. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Harmful to aquatic life with long lasting effects.
Precautionary statements	Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Avoid breathing dust/ vapours/ spray. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. In case of inadequate ventilation wear respiratory protection. IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If skin irritation or rash occurs: Get medical advice/ attention.

If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician.
Wash contaminated clothing before reuse.
Store in a well-ventilated place. Keep cool.

Other hazards which do not result in classification
Contains isocyanates. See information supplied by the manufacturer. Contains: hexamethylene-di-isocyanate. May produce an allergic reaction.

3. Composition/information on ingredients

Pure substance/mixture
Mixture

CAS-No.	Chemical Name	Concentration	GHS Hazardous
28182-81-2	Hexamethylene diisocyanate, oligomers	70 - 80%	√
112-07-2	2-butoxyethyl acetate	5 - 10%	√
763-69-9	ethyl 3-ethoxypropionate	5 - 10%	√
108-65-6	2-methoxy-1-methylethyl acetate	5 - 10%	√
123-86-4	n-butyl acetate	3 - 5%	√
95-63-6	1,2,4-trimethylbenzene	1 - 3%	√
64742-95-6	solvent naphtha (petroleum), light arom. (<0,1% benzene)	1 - 3%	√
1330-20-7	xylene	1 - 3%	√
100-41-4	ethylbenzene	0.3 - 1.0%	√
108-67-8	mesitylene	0.1 - 0.3%	√
822-06-0	hexamethylene-di-isocyanate	0.1 - 0.3%	√

Non-regulated ingredients 0.1 - 1.0%

4. First aid measures

Eye contact
Remove contact lenses. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Seek medical advice.

Skin contact
Do NOT use solvents or thinners. Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. If skin irritation persists, call a physician.

Inhalation
Avoid inhalation of vapour or mist. Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

Ingestion
If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting. Keep at rest.

Most Important Symptoms/effects, acute and delayed

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. Exposure to isocyanates may cause respiratory sensitization. This effect may be permanent. Symptoms include an asthma-like reaction with shortness of breath, wheezing, cough or permanent lung sensitization. This effect may be delayed for several hours after exposure. Repeated overexposure to isocyanates may cause a decrease in lung function, which may be permanent. Individuals with lung or breathing problems or prior reactions to isocyanates must not be exposed to vapors or spray mist of this product.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis. Skin contact my cause skin sensitization.

Notes to physician
No data available on the product. See section 3 and 11 for hazardous ingredients found in the product.

5. Firefighting measures

Suitable extinguishing media
Universal aqueous film-forming foam, Carbon dioxide (CO2), Dry chemical, Water spray.

Extinguishing media which shall not be used for safety reasons
High volume water jet

Specific hazards
The product is not flammable. Avoid heating above flash point. Do not allow run-off from fire fighting to enter drains or water courses. Never use pressure to empty container: container is not a pressure vessel. Always keep in containers of same material as the original one.

Special Protective Equipment and Fire Fighting Procedures
Wear as appropriate: Full protective flameproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. In the event of fire, cool tanks with water spray.

6. Accidental release measures

Personal precautions
Keep in a well-ventilated place. Keep away from sources of ignition. Comply with safety directives (see chapters 7 and 8). Do not inhale vapours.

Environmental precautions
Do not let product enter drains. Notify the respective authorities in accordance with local law in the case of contamination of rivers, lakes or waste water systems.

Methods for cleaning up
Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations. The contaminated area should be cleaned up immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): water (45 parts), ethanol or isopropyl alcohol (50 parts), concentrated (d : 0,880) ammonia solution (5 parts). A non-flammable alternative is sodium carbonate (5 parts), water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in non-sealed container. Once this stage is reached, close container and dispose according to local regulations (see section 13).

7. Handling and storage

Handling
Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Safe handling advice
Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation may charge electrostatically: always use grounded leads when transferring from one container to another. Operators should wear antistatic footwear and clothing. No sparking tools should be used. Avoid skin and eye contact. Do not breathe vapours or spray mist. Smoking, eating and drinking should be prohibited in the application area.

Storage
Suitable storage conditions
Observe label precautions. Store between 5 and 25 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Suitable container and packaging materials for safe storage
Always keep in containers made of the same material as the supply container.

8. Exposure controls/personal protection

Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

National occupational exposure limits
Workplace Exposure Standards (WESs) 2002

Chemical Name		
Hexamethylene diisocyanate, oligomers	STEL	0.07 mg/m3
	TWA	0.02 mg/m3
n-butyl acetate	TWA	150 ppm
	STEL	200 ppm
	STEL	950 mg/m3
	TWA	713 mg/m3
1,2,4-trimethylbenzene	TWA	25 ppm
	TWA	123 mg/m3
xylene	TWA	50 ppm
	TWA	217 mg/m3
ethylbenzene	TWA	100 ppm
	STEL	125 ppm
	STEL	543 mg/m3
	TWA	434 mg/m3
mesitylene	TWA	25 ppm
	TWA	25 ppm
	TWA	123 mg/m3
	TWA	123 mg/m3
hexamethylene-di-isocyanate	STEL	0.07 mg/m3

Chemical Name		
	TWA	0.02 mg/m3

Engineering measures
Provide adequate ventilation. Air-fed protective respiratory equipment must be worn by spray operator even when good ventilation is provided.

Protective equipment
Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

Respiratory protection
For spraying: air-fed respirator. For operations other than spraying: in well ventilated areas, air-fed respirators could be replaced by a combination of charcoal filter and particulate filter mask.

Eye protection
Wear protective eyewear for protection against solvent spatter.

Hand protection
The breakthrough time of gloves is unknown for the product itself. The glove material given is recommended on basis of the substances in the preparation.

Chemical Name	Glove material	Glove thickness	Break through time
2-butoxyethyl acetate	Viton (R) ®	0.7 mm	480 m
	Nitrile rubber	0.33 mm	480 m
n-butyl acetate	Viton (R) ®	0.7 mm	10 min
	Nitrile rubber	0.33 mm	30 min
solvent naphtha (petroleum), light arom. (<0,1% benzene)	Viton (R) ®	0.7 mm	30 min
xylene	Nitrile rubber	0.33 mm	30 min
	Viton (R) ®	0.7 mm	480 min

The protective glove should be checked in each case for their work specific suitability (e.g. mechanical stability, product compatibility, and anti-static properties). When the intended use is for spray application a nitrile glove of the chemical resistance group 3 (e.g. Dermatril® glove) is to be used. After contamination, the glove has to be changed. If immersing the hands into the product is not avoidable (e.g. maintenance work) a butyl or fluorocarbon rubber glove should be used. When skin exposure may occur to materials specified in section 3 of this SDS, advice should be sought from the glove supplier as to appropriate type to use with this product and the permeation breakthrough times. Care should be taken when working with sharp edged articles as these can easily damage the gloves and make them ineffective. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. Damaged gloves or those showing signs of wear should be replaced immediately.

Skin and body protection
Wear suitable protective clothing. Personnel should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber.

Hygiene measures
Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use organic solvents!

9. Physical and chemical properties

Appearance

Form : liquid Colour: clear Odour: Characteristic Paint Odor Odor Threshold : no data available

pH	not applicable	
Freezing point	Not applicable.	
Boiling point	104 °C	
Flash point	54 °C	DIN 53213/ISO 1523
Evapouration rate	Slower than Ether	
Flammability		
Upper explosion limit	7 %	
Lower explosion limit	1 %	
Vapour pressure	1.4 hPa	
Solubility(ies)	moderate	
Vapour density	no data available	
Density	1.08 g/cm^3	DIN 53217/ISO 2811
Partition coefficient: n-octanol/water	no data available	
Ignition temperature	272 °C	DIN 51794
Decomposition temperature		
Viscosity (23 °C)	<20 s	ISO 2431-1993 6 mm

10. Stability and reactivity

Stability
Stable

Hazardous polymerisation
Will not occur.

Conditions to avoid
Stable under recommended storage and handling conditions (see section 7).

Materials to avoid
Keep away from oxidising agents and strongly acid or alkaline materials. Amines and alcohols cause exothermic reactions. Mixture reacts slowly with water resulting in evolution of CO2. Evolution of CO2 in closed containers causes overpressure and produces a risk of bursting.

Hazardous decomposition products
When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen as well as hydrogen cyanide, amines, alcohols and water.

11. Toxicological information

Information on likely routes of exposure

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. Exposure to isocyanates may cause respiratory sensitization. This effect may be permanent. Symptoms include an asthma-like reaction with shortness of breath, wheezing, cough or permanent lung sensitization. This effect may be delayed for several hours after exposure. Repeated overexposure to isocyanates may cause a decrease in lung function, which may be permanent. Individuals with lung or breathing problems or prior reactions to isocyanates must not be exposed to vapors or spray mist of this product.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Delayed and immediate effects and also chronic effects from short and long term exposure:

Acute oral toxicity
not hazardous

Acute dermal toxicity
not hazardous

Acute inhalation toxicity
not hazardous

% of unknown composition 0 %

Skin corrosion/irritation

ethyl 3-ethoxypropionate	Category 3
n-butyl acetate	Category 3
1,2,4-trimethylbenzene	Category 2
solvent naphtha (petroleum), light arom. (<0,1% benzene)	Category 3
xylene	Category 2
ethylbenzene	Category 3
mesitylene	Category 3
hexamethylene-di-isocyanate	Category 1C

Serious eye damage/eye irritation
Not classified according to GHS criteria

Respiratory sensitisation

Hexamethylene diisocyanate, oligomers	Category 1
hexamethylene-di-isocyanate	Category 1

Skin sensitisation

Hexamethylene diisocyanate, oligomers	Category 1
hexamethylene-di-isocyanate	Category 1

Germ cell mutagenicity
Not classified according to GHS criteria

Carcinogenicity
Not classified according to GHS criteria

Toxicity for reproduction
Not classified according to GHS criteria

Target Organ Systemic Toxicant - Single exposure
Not classified according to GHS criteria

Target Organ Systemic Toxicant - Repeated exposure
Not classified according to GHS criteria

Aspiration toxicity
Not classified according to GHS criteria

Numerical measures of toxicity (acute toxicity estimation (ATE),etc.)
No information available.

Symptoms related to the physical, chemical and toxicological characteristics
Based on the properties of the isocyanate components and considering toxicological data on similar products, the following applies: This formulation may cause acute irritation and/or sensitization of the respiratory system leading to an asthmatic condition, wheeziness and a tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Repeated exposure may lead to permanent respiratory disability. Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Through skin resorbtion, solvents can cause some of the effects described here. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage. Components of the product may be absorbed into the body through the skin.

12. Ecological information

Product contains environmentally hazardous substances and product is not classified per GHS.

Ecotoxicity effects
There are no data available on the product itself. The product should not be allowed to enter drains or watercourses.

Chronic aquatic toxicity

1,2,4-trimethylbenzene	Category 2
solvent naphtha (petroleum), light arom. (<0,1% benzene)	Category 2
mesitylene	Category 2
hexamethylene-di-isocyanate	Category 3

% of unknown composition 0%

Persistence and degradability
No information available.

Bioaccumulation
No information available.

Mobility in soil
No information available.

Other adverse effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods
Dispose of in accordance with local regulations.

Disposal considerations
A disposal process that converts the waste into energy is recommended. If this is not possible the hazardous waste must be disposed of by incineration.

14. Transport information

NZS5433

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Packing group:	III

Hazchem Code:	3Y

IMDG (Sea transport)

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	III
Marine Pollutant:	no
EmS:	F-E,S-E

ICAO/IATA (Air transport)

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	III

Matters needing attention for transportation
Confirm that there is no breakage, corrosion, or leakage from the container before shipping. Be sure to prevent damage to cargo by loading so as to avoid falling, dropping, or collapse. Ship in appropriate containers with denotation of the content in accordance with the relevant statutes and rules.

15. Regulatory information

National regulatory information

HSNO Approval Code	HSR002662
HSNO Classification	
Skin corrosion/irritation	Category 6.3B
Respiratory sensitisation	Category 6.5A
Skin sensitisation	Category 6.5B
Flammable liquids	Category 3.1C
Chronic aquatic toxicity	Category 9.1C

16. Other information

Revision Note

Version	Changes
1.0	

Revision Date: 2014-12-05
B11971703

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.

End of Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking

Product name	DP2120 Marine Basecoat Activator
Product code	DP2120

Intended use of the substance/preparation
Hardener for professional use

Supplier	Axalta Coating Systems Australia Pty Limited
Street address	15 - 23 Melbourne Road, Riverstone NSW 2765, Australia
Telephone	
Telefax	

Emergency Information

Emergency telephone number	+(64) 9801 0034 NZ Poisons Information Centre: 0800 764 766 or +(64) 3 479 7248
Importer	Resene Automotive & Light Industrial
Street/Box	4 Te Apunga Place, Mt Wellington, Auckland, NZ
Nat.-Code/Postal code/City	
Telephone	+64 (09) 259 2738
Date of preparation	2015-01-29

2. Hazards identification

Classified as a Dangerous Good according to NZS 5433
Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001

HSNO Classification

Flammable liquids	Category 3.1C
Acute inhalation toxicity	Category 6.1E
Skin corrosion/irritation	Category 6.3A
Respiratory sensitisation	Category 6.5A
Skin sensitisation	Category 6.5B
Toxicity for reproduction	Category 6.8B
Acute aquatic toxicity	Category 9.1C
Ecotoxic to terrestrial invertebrates	Category 9.4C

Endpoints which are “”not classified“”, “”cannot classified“” and “”not applicable“” are not shown

GHS-Labelling

Hazard symbols	
Signal word	Danger
Hazard statements	Flammable liquid and vapour. May be harmful if inhaled. Causes skin irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Suspected of damaging fertility or the unborn child. Harmful to aquatic life.
Precautionary statements	Avoid release to the environment. In case of inadequate ventilation wear respiratory protection. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Obtain special instructions before use.

Wear protective gloves/protective clothing/eye protection/face protection.
Avoid breathing dust/ vapours/ spray.
If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician.
IF exposed or concerned: Get medical advice/ attention.
IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
If skin irritation or rash occurs: Get medical advice/ attention.
Wash contaminated clothing before reuse.
Store in a well-ventilated place. Keep cool.

Other hazards which do not result in classification
Contains isocyanates. See information supplied by the manufacturer. Contains: hexamethylene-di-isocyanate. May produce an allergic reaction.

3. Composition/information on ingredients

Pure substance/mixture
Mixture

CAS-No.	Chemical Name	Concentration	GHS Hazardous
28182-81-2	Hexamethylene diisocyanate, oligomers	50 - 60%	√
1330-20-7	xylene	20 - 30%	√
123-86-4	n-butyl acetate	5 - 10%	√
100-41-4	ethylbenzene	5 - 10%	√
822-06-0	hexamethylene-di-isocyanate	0.1 - 0.3%	√
108-88-3	toluene	0.1 - 0.3%	√

Non-regulated ingredients 0.0 - 0.1%

4. First aid measures

Eye contact
Remove contact lenses. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Seek medical advice.

Skin contact
Do NOT use solvents or thinners. Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. If skin irritation persists, call a physician.

Inhalation
Avoid inhalation of vapour or mist. Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

Ingestion
If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting. Keep at rest.

Most Important Symptoms/effects, acute and delayed

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. Exposure to isocyanates may cause respiratory sensitization. This effect may be permanent. Symptoms include an asthma-like reaction with shortness of breath, wheezing,

cough or permanent lung sensitization. This effect may be delayed for several hours after exposure. Repeated overexposure to isocyanates may cause a decrease in lung function, which may be permanent. Individuals with lung or breathing problems or prior reactions to isocyanates must not be exposed to vapors or spray mist of this product.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis. Skin contact my cause skin sensitization.

Notes to physician
No data available on the product. See section 3 and 11 for hazardous ingredients found in the product.

5. Firefighting measures

Suitable extinguishing media
Universal aqueous film-forming foam, Carbon dioxide (CO2), Dry chemical, Water spray.

Extinguishing media which shall not be used for safety reasons
High volume water jet

Specific hazards
Flammable liquid. Vapours may form explosive mixtures with air. Remove all sources of ignition. Solvent vapours are heavier than air and may spread along floors. Do not allow run-off from fire fighting to enter drains or water courses. Never use pressure to empty container: container is not a pressure vessel. Always keep in containers of same material as the original one.

Special Protective Equipment and Fire Fighting Procedures
Wear as appropriate: Full protective flameproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. In the event of fire, cool tanks with water spray.

6. Accidental release measures

Personal precautions
Keep in a well-ventilated place. Keep away from sources of ignition. Comply with safety directives (see chapters 7 and 8). Do not inhale vapours.

Environmental precautions
Do not let product enter drains. Notify the respective authorities in accordance with local law in the case of contamination of rivers, lakes or waste water systems.

Methods for cleaning up
Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations. The contaminated area should be cleaned up immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): water (45 parts), ethanol or isopropyl alcohol (50 parts), concentrated (d : 0,880) ammonia solution (5 parts). A non-flammable alternative is sodium carbonate (5 parts), water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in non-sealed container. Once this stage is reached, close container and dispose according to local regulations (see section 13).

7. Handling and storage

Handling
Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Safe handling advice
Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation may charge electrostatically: always use grounded leads when transferring from one container to another. Operators should wear antistatic footwear and clothing. No sparking tools should be used. Avoid skin and eye contact. Do not breathe vapours or spray mist. Smoking, eating and drinking should be prohibited in the application area.

Storage
Suitable storage conditions
Observe label precautions. Store between 5 and 25 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Suitable container and packaging materials for safe storage
Always keep in containers made of the same material as the supply container.

8. Exposure controls/personal protection

Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

National occupational exposure limits
Workplace Exposure Standards (WESs) 2002

Chemical Name		
Hexamethylene diisocyanate, oligomers	STEL	0.07 mg/m3
	TWA	0.02 mg/m3
xylene	TWA	50 ppm
	TWA	217 mg/m3
n-butyl acetate	TWA	150 ppm
	STEL	200 ppm
	STEL	950 mg/m3
	TWA	713 mg/m3
ethylbenzene	TWA	100 ppm
	STEL	125 ppm
	STEL	543 mg/m3
	TWA	434 mg/m3
hexamethylene-di-isocyanate	STEL	0.07 mg/m3
	TWA	0.02 mg/m3
toluene	TWA	50 ppm
	TWA	188 mg/m3

Engineering measures
Provide adequate ventilation. Air-fed protective respiratory equipment must be worn by spray operator even when good ventilation is provided.

Protective equipment
Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

Respiratory protection
For spraying: air-fed respirator. For operations other than spraying: in well ventilated areas, air-fed respirators could be replaced by a combination of charcoal filter and particulate filter mask.

Eye protection
Wear protective eyewear for protection against solvent spatter.

Hand protection
The breakthrough time of gloves is unknown for the product itself. The glove material given is recommended on basis of the substances in the preparation.

Chemical Name	Glove material	Glove thickness	Break through time
xylene	Nitrile rubber	0.33 mm	30 min
	Viton (R) ®	0.7 mm	480 min
n-butyl acetate	Viton (R) ®	0.7 mm	10 min
	Nitrile rubber	0.33 mm	30 min

The protective glove should be checked in each case for their work specific suitability (e.g. mechanical stability, product compatibility, and anti-static properties). When the intended use is for spray application a nitrile glove of the chemical resistance group 3 (e.g. Dermatril® glove) is to be used. After contamination, the glove has to be changed. If immersing the hands into the product is not avoidable (e.g. maintenance work) a butyl or fluorocarbon rubber glove should be used. When skin exposure may occur to materials specified in section 3 of this SDS, advice should be sought from the glove supplier as to appropriate type to use with this product and the permeation breakthrough times. Care should be taken when working with sharp edged articles as these can easily damage the gloves and make them ineffective. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. Damaged gloves or those showing signs of wear should be replaced immediately.

Skin and body protection
Wear suitable protective clothing. Personnel should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber.

Hygiene measures
Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use organic solvents!

9. Physical and chemical properties

Appearance

Form : liquid Colour: clear Odour: Characteristic Paint Odor Odor Threshold : no data available

pH	not applicable	
Freezing point	Not applicable.	
Boiling point	135 °C	
Flash point	31 °C	DIN 53213/ISO 1523
Evapouration rate	Slower than Ether	
Flammability		
Upper explosion limit	7 %	
Lower explosion limit	1 %	
Vapour pressure	4.2 hPa	
Solubility(ies)	partly miscible	
Vapour density	no data available	
Density	1.01 g/cm^3	DIN 53217/ISO 2811
Partition coefficient: n-octanol/water	no data available	
Ignition temperature	415 °C	DIN 51794
Decomposition temperature		
Viscosity (23 °C)	<20 s	ISO 2431-1993 6 mm

10. Stability and reactivity

Stability
Stable

Hazardous polymerisation
Will not occur.

Conditions to avoid
Stable under recommended storage and handling conditions (see section 7).

Materials to avoid
Keep away from oxidising agents and strongly acid or alkaline materials. Amines and alcohols cause exothermic reactions. Mixture reacts slowly with water resulting in evolution of CO2. Evolution of CO2 in closed containers causes overpressure and produces a risk of bursting.

Hazardous decomposition products
When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen as well as hydrogen cyanide, amines, alcohols and water.

11. Toxicological information

Information on likely routes of exposure

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. Exposure to isocyanates may cause respiratory sensitization. This effect may be permanent. Symptoms include an asthma-like reaction with shortness of breath, wheezing, cough or permanent lung sensitization. This effect may be delayed for several hours after exposure. Repeated overexposure to isocyanates may cause a decrease in lung function, which may be permanent. Individuals with lung or breathing problems or prior reactions to isocyanates must not be exposed to vapors or spray mist of this product.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Delayed and immediate effects and also chronic effects from short and long term exposure:

Acute oral toxicity
not hazardous

Acute dermal toxicity
not hazardous

Acute inhalation toxicity

Hexamethylene diisocyanate, oligomers	Category 4
xylene	Category 4
ethylbenzene	Category 4
hexamethylene-di-isocyanate	Category 1
toluene	Category 5

% of unknown composition 0 %

Skin corrosion/irritation

xylene	Category 2
n-butyl acetate	Category 3
ethylbenzene	Category 3
hexamethylene-di-isocyanate	Category 1C
toluene	Category 2

Serious eye damage/eye irritation
Not classified according to GHS criteria

Respiratory sensitisation

Hexamethylene diisocyanate, oligomers	Category 1
hexamethylene-di-isocyanate	Category 1

Skin sensitisation

Hexamethylene diisocyanate, oligomers	Category 1
hexamethylene-di-isocyanate	Category 1

Germ cell mutagenicity
Not classified according to GHS criteria

Carcinogenicity
Not classified according to GHS criteria

Toxicity for reproduction

toluene	Category 2

Target Organ Systemic Toxicant - Single exposure
Not classified according to GHS criteria

Target Organ Systemic Toxicant - Repeated exposure
Not classified according to GHS criteria

Aspiration toxicity
Not classified according to GHS criteria

Numerical measures of toxicity (acute toxicity estimation (ATE),etc.)
No information available.

Symptoms related to the physical, chemical and toxicological characteristics
Based on the properties of the isocyanate components and considering toxicological data on similar products, the following applies: This formulation may cause acute irritation and/or sensitization of the respiratory system leading to an asthmatic condition, wheeziness and a tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Repeated exposure may lead to permanent respiratory disability. Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Through skin resorbtion, solvents can cause some of the effects described here. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage. Components of the product may be absorbed into the body through the skin.

12. Ecological information

Product contains environmentally hazardous substances and product is not classified per GHS.

Ecotoxicity effects
There are no data available on the product itself. The product should not be allowed to enter drains or watercourses.

Acute aquatic toxicity

xylene	Category 3
n-butyl acetate	Category 3
ethylbenzene	Category 2
hexamethylene-di-isocyanate	Category 3
toluene	Category 2

Ecotoxic to terrestrial invertebrates

xylene	Category 9.4C

% of unknown composition 0%

Persistence and degradability
No information available.

Bioaccumulation
No information available.

Mobility in soil
No information available.

Other adverse effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods
Dispose of in accordance with local regulations.

Disposal considerations
A disposal process that converts the waste into energy is recommended. If this is not possible the hazardous waste must be disposed of by incineration.

14. Transport information

NZS5433

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Packing group:	III
Hazchem Code:	3Y

IMDG (Sea transport)

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	III
Marine Pollutant:	no
EmS:	F-E,S-E

ICAO/IATA (Air transport)

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	III

Matters needing attention for transportation
Confirm that there is no breakage, corrosion, or leakage from the container before shipping. Be sure to prevent damage to cargo by loading so as to avoid falling, dropping, or collapse. Ship in appropriate containers with denotation of the content in accordance with the relevant statutes and rules.

15. Regulatory information

National regulatory information

HSNO Approval Code	HSR002662
HSNO Classification	
Acute inhalation toxicity	Category 6.1E
Skin corrosion/irritation	Category 6.3A
Respiratory sensitisation	Category 6.5A
Skin sensitisation	Category 6.5B
Toxicity for reproduction	Category 6.8B
Flammable liquids	Category 3.1C
Acute aquatic toxicity	Category 9.1C
Ecotoxic to terrestrial invertebrates	Category 9.4C

16. Other information

Revision Note

Version	Changes
1.0	
Revision Date:	2014-12-05
B11934544	

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.

End of Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking

Product name	DP4101 Marine HS Primer (White)
Product code	DP4101

Intended use of the substance/preparation
Coating for professional use

Supplier	Axalta Coating Systems Australia Pty Limited
Street address	15 - 23 Melbourne Road, Riverstone NSW 2765, Australia
Telephone	
Telefax	

Emergency Information

Emergency telephone number	+(64) 9801 0034 NZ Poisons Information Centre: 0800 764 766 or +(64) 3 479 7248
Importer	Resene Automotive & Light Industrial
Street/Box	4 Te Apunga Place, Mt Wellington, Auckland, NZ
Nat.-Code/Postal code/City	
Telephone	+64 (09) 259 2738
Date of preparation	2015-01-29

2. Hazards identification

Classified as a Dangerous Good according to NZS 5433
Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001

HSNO Classification

Flammable liquids	Category 3.1C
Skin corrosion/irritation	Category 6.3B
Skin sensitisation	Category 6.5B
Acute aquatic toxicity	Category 9.1B
Chronic aquatic toxicity	Category 9.1B

Endpoints which are “”not classified“”, “”cannot classified“” and “”not applicable“” are not shown

GHS-Labelling

Hazard symbols	
Signal word	Warning
Hazard statements	Flammable liquid and vapour. Causes mild skin irritation. May cause an allergic skin reaction. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.
Precautionary statements	Avoid release to the environment. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/ vapours/ spray. Collect spillage. If skin irritation or rash occurs: Get medical advice/ attention. Wash contaminated clothing before reuse. Store in a well-ventilated place. Keep cool.

Other hazards which do not result in classification
Contains: Fatty acids, tall-oil, compds. with oleylamine. May produce an allergic reaction.

3. Composition/information on ingredients

Pure substance/mixture
Mixture

CAS-No.	Chemical Name	Concentration	GHS Hazardous
1332-58-7	Kaolin	20 - 30%	
123-86-4	n-butyl acetate	10 - 20%	√
13463-67-7	Titanium dioxide	10 - 20%	
1330-20-7	xylene	5 - 10%	√
7779-90-0	trizinc bis(orthophosphate)	5 - 10%	√
14807-96-6	Talc (Mg3H2(SiO3)4)	3 - 5%	
95-63-6	1,2,4-trimethylbenzene	1 - 3%	√
64742-95-6	solvent naphtha (petroleum), light arom. (<0,1% benzene)	1 - 3%	√
100-41-4	ethylbenzene	1 - 3%	√
108-67-8	mesitylene	0.3 - 1.0%	√
21645-51-2	aluminium hydroxide	0.3 - 1.0%	
7631-86-9	amorphous Silica	0.3 - 1.0%	
85711-55-3	Fatty acids, tall-oil, compds. with oleylamine	0.1 - 0.3%	√
1314-13-2	zinc oxide	0.1 - 0.3%	√

Non-regulated ingredients 20 - 30%

4. First aid measures

Eye contact
Remove contact lenses. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Seek medical advice.

Skin contact
Do NOT use solvents or thinners. Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. If skin irritation persists, call a physician.

Inhalation
Avoid inhalation of vapour or mist. Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

Ingestion
If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting. Keep at rest.

Most Important Symptoms/effects, acute and delayed

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Notes to physician
No data available on the product. See section 3 and 11 for hazardous ingredients found in the product.

5. Firefighting measures

Suitable extinguishing media
Universal aqueous film-forming foam, Carbon dioxide (CO2), Dry chemical, Water spray.

Extinguishing media which shall not be used for safety reasons
High volume water jet

Specific hazards
Flammable liquid. Vapours may form explosive mixtures with air. Remove all sources of ignition. Solvent vapours are heavier than air and may spread along floors. Do not allow run-off from fire fighting to enter drains or water courses. Never use pressure to empty container: container is not a pressure vessel. Always keep in containers of same material as the original one.

Special Protective Equipment and Fire Fighting Procedures
Wear as appropriate: Full protective flameproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. In the event of fire, cool tanks with water spray.

6. Accidental release measures

Personal precautions
Keep in a well-ventilated place. Keep away from sources of ignition. Comply with safety directives (see chapters 7 and 8). Do not inhale vapours.

Environmental precautions
Do not let product enter drains. Notify the respective authorities in accordance with local law in the case of contamination of rivers, lakes or waste water systems.

Methods for cleaning up
Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations. Clean preferably with a detergent; avoid use of solvents.

7. Handling and storage

Handling
Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Safe handling advice
Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation may charge electrostatically: always use grounded leads when transferring from one container to another. Operators should wear antistatic footwear and clothing. No sparking tools should be used. Avoid skin and eye contact. Do not breathe vapours or spray mist. Smoking, eating and drinking should be prohibited in the application area.

Storage
Suitable storage conditions
Observe label precautions. Store between 5 and 25 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Suitable container and packaging materials for safe storage
Always keep in containers made of the same material as the supply container.

8. Exposure controls/personal protection

Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

National occupational exposure limits
Workplace Exposure Standards (WESs) 2002

Chemical Name		
Kaolin	TWA	2 mg/m3
n-butyl acetate	TWA	150 ppm
	STEL	200 ppm
	STEL	950 mg/m3
	TWA	713 mg/m3
Titanium dioxide	TWA	10 mg/m3
xylene	TWA	50 ppm
	TWA	217 mg/m3
trizinc bis(orthophosphate)	TWA	10 mg/m3
Talc (Mg3H2(SiO3)4)	TWA	2 mg/m3
1,2,4-trimethylbenzene	TWA	25 ppm
	TWA	123 mg/m3
ethylbenzene	TWA	100 ppm
	STEL	125 ppm
	STEL	543 mg/m3
	TWA	434 mg/m3
mesitylene	TWA	25 ppm
	TWA	25 ppm
	TWA	123 mg/m3
	TWA	123 mg/m3
aluminium hydroxide	TWA	2 mg/m3
amorphous Silica	TWA	10 mg/m3
zinc oxide	STEL	10 mg/m3
	TWA	5 mg/m3

Engineering measures
Provide adequate ventilation. This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

Protective equipment
Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

Respiratory protection
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Eye protection
Wear protective eyewear for protection against solvent spatter.

Hand protection
The breakthrough time of gloves is unknown for the product itself. The glove material given is recommended on basis of the substances in the preparation.

Chemical Name	Glove material	Glove thickness	Break through time
n-butyl acetate	Viton (R) ®	0.7 mm	10 min
	Nitrile rubber	0.33 mm	30 min
xylene	Nitrile rubber	0.33 mm	30 min
	Viton (R) ®	0.7 mm	480 min
solvent naphtha (petroleum), light arom. (<0,1% benzene)	Viton (R) ®	0.7 mm	30 min

The protective glove should be checked in each case for their work specific suitability (e.g. mechanical stability, product compatibility, and anti-static properties). When the intended use is for spray application a nitrile glove of the chemical resistance group 3 (e.g. Dermatril® glove) is to be used. After contamination, the glove has to be changed. If immersing the hands into the product is not avoidable (e.g. maintenance work) a butyl or fluorocarbon rubber glove should be used. When skin exposure may occur to materials specified in section 3 of this SDS, advice should be sought from the glove supplier as to appropriate type to use with this product and the permeation breakthrough times. Care should be taken when working with sharp edged articles as these can easily damage the gloves and make them ineffective. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. Damaged gloves or those showing signs of wear should be replaced immediately.

Skin and body protection
Wear suitable protective clothing. Personnel should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber.

Hygiene measures
Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use organic solvents!

9. Physical and chemical properties

Appearance

Form : liquid Colour: white Odour: Characteristic Paint Odor Odor Threshold : no data available

pH	not applicable
Freezing point	Not applicable.
Boiling point	135 °C
Flash point	24 °C
Evapouration rate	Slower than Ether
Flammability	
Upper explosion limit	10.3 %
Lower explosion limit	0.9 %
Vapour pressure	3.5 hPa

Solubility(ies)	partly miscible	
Vapour density	no data available	
Density	1.49 g/cm^3	DIN 53217/ISO 2811
Partition coefficient: n-octanol/water	no data available	
Ignition temperature	401 °C	DIN 51794
Decomposition temperature		
Viscosity (23 °C)	>100 s	ISO 2431-1993 6 mm

10. Stability and reactivity

Stability
Stable

Hazardous polymerisation
Will not occur.

Conditions to avoid
Stable under recommended storage and handling conditions (see section 7).

Materials to avoid
Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Hazardous decomposition products
When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

11. Toxicological information

Information on likely routes of exposure

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Delayed and immediate effects and also chronic effects from short and long term exposure:

Acute oral toxicity
not hazardous

Acute dermal toxicity
not hazardous

Acute inhalation toxicity
not hazardous

% of unknown composition 0 %

Skin corrosion/irritation

n-butyl acetate	Category 3
xylene	Category 2
1,2,4-trimethylbenzene	Category 2
solvent naphtha (petroleum), light arom. (<0,1% benzene)	Category 3
ethylbenzene	Category 3
mesitylene	Category 3

Serious eye damage/eye irritation
Not classified according to GHS criteria

Respiratory sensitisation
Not classified according to GHS criteria

Skin sensitisation

Fatty acids, tall-oil, compds. with oleylamine	Category 1A

Germ cell mutagenicity
Not classified according to GHS criteria

Carcinogenicity
Not classified according to GHS criteria

Toxicity for reproduction
Not classified according to GHS criteria

Target Organ Systemic Toxicant - Single exposure
Not classified according to GHS criteria

Target Organ Systemic Toxicant - Repeated exposure
Not classified according to GHS criteria

Aspiration toxicity
Not classified according to GHS criteria

Numerical measures of toxicity (acute toxicity estimation (ATE),etc.)
No information available.

Symptoms related to the physical, chemical and toxicological characteristics
Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Through skin resorbtion, solvents can cause some of the effects described here. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.

12. Ecological information

Product contains environmentally hazardous substances and product is not classified per GHS.

Ecotoxicity effects
There are no data available on the product itself. The product should not be allowed to enter drains or watercourses.

Acute aquatic toxicity

n-butyl acetate	Category 3
Titanium dioxide	Category 3
xylene	Category 3
trizinc bis(orthophosphate)	Category 1
1,2,4-trimethylbenzene	Category 2
solvent naphtha (petroleum), light arom. (<0,1% benzene)	Category 2
ethylbenzene	Category 2
mesitylene	Category 2
aluminium hydroxide	Category 1
zinc oxide	Category 1

Chronic aquatic toxicity

trizinc bis(orthophosphate)	Category 1
1,2,4-trimethylbenzene	Category 2
solvent naphtha (petroleum), light arom. (<0,1% benzene)	Category 2
mesitylene	Category 2
aluminium hydroxide	Category 1
zinc oxide	Category 1

% of unknown composition 0%

Persistence and degradability
No information available.

Bioaccumulation
No information available.

Mobility in soil
No information available.

Other adverse effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods
Dispose of in accordance with local regulations.

Disposal considerations
A disposal process that converts the waste into energy is recommended. If this is not possible the hazardous waste must be disposed of by incineration.

14. Transport information

NZS5433

Proper shipping name:	PAINT
UN number:	1263
Hazard Class:	3
Packing group:	III
Hazchem Code:	3Y

IMDG (Sea transport)

Proper shipping name:	PAINT

UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	III
Marine Pollutant:	yes [trizinc bis(orthophosphate)]
EmS:	F-E,S-E

ICAO/IATA (Air transport)

Proper shipping name:	PAINT
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	III

Matters needing attention for transportation

Confirm that there is no breakage, corrosion, or leakage from the container before shipping. Be sure to prevent damage to cargo by loading so as to avoid falling, dropping, or collapse. Ship in appropriate containers with denotation of the content in accordance with the relevant statutes and rules.

15. Regulatory information

National regulatory information

HSNO Approval Code	HSR002662
HSNO Classification	
Skin corrosion/irritation	Category 6.3B
Skin sensitisation	Category 6.5B
Flammable liquids	Category 3.1C
Acute aquatic toxicity	Category 9.1B
Chronic aquatic toxicity	Category 9.1B

16. Other information

Revision Note

Version	Changes
2.0	9

Revision Date: 2015-01-13
B11937389

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.

End of Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking

Product name	DP4104 Marine HS Primer (Grey)
Product code	DP4104

Intended use of the substance/preparation
Coating for professional use

Supplier	Axalta Coating Systems Australia Pty Limited
Street address	15 - 23 Melbourne Road, Riverstone NSW 2765, Australia
Telephone	
Telefax	

Emergency Information

Emergency telephone number	+(64) 9801 0034 NZ Poisons Information Centre: 0800 764 766 or +(64) 3 479 7248
Importer	Resene Automotive & Light Industrial
Street/Box	4 Te Apunga Place, Mt Wellington, Auckland, NZ
Nat.-Code/Postal code/City	
Telephone	+64 (09) 259 2738
Date of preparation	2015-01-29

2. Hazards identification

Classified as a Dangerous Good according to NZS 5433
Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001

HSNO Classification

Flammable liquids	Category 3.1C
Skin corrosion/irritation	Category 6.3B
Skin sensitisation	Category 6.5B
Acute aquatic toxicity	Category 9.1B
Chronic aquatic toxicity	Category 9.1B

Endpoints which are “”not classified“”, “”cannot classified“” and “”not applicable“” are not shown

GHS-Labelling

Hazard symbols	
Signal word	Warning
Hazard statements	Flammable liquid and vapour. Toxic to aquatic life. Toxic to aquatic life with long lasting effects. May cause an allergic skin reaction. Causes mild skin irritation.
Precautionary statements	Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Store in a well-ventilated place. Keep cool. Avoid release to the environment. Collect spillage. Avoid breathing dust/ vapours/ spray. Wear protective gloves/protective clothing/eye protection/face protection. If skin irritation or rash occurs: Get medical advice/ attention. Wash contaminated clothing before reuse.

Other hazards which do not result in classification
Contains: Fatty acids, tall-oil, compds. with oleylamine. May produce an allergic reaction.

3. Composition/information on ingredients

Pure substance/mixture
Mixture

CAS-No.	Chemical Name	Concentration	GHS Hazardous
1332-58-7	Kaolin	20 - 30%	
123-86-4	n-butyl acetate	10 - 20%	√
13463-67-7	Titanium dioxide	5 - 10%	
1330-20-7	xylene	5 - 10%	√
7779-90-0	trizinc bis(orthophosphate)	5 - 10%	√
14807-96-6	Talc (Mg3H2(SiO3)4)	3 - 5%	
95-63-6	1,2,4-trimethylbenzene	1 - 3%	√
64742-95-6	solvent naphtha (petroleum), light arom. (<0,1% benzene)	1 - 3%	√
100-41-4	ethylbenzene	1 - 3%	√
108-67-8	mesitylene	0.3 - 1.0%	√
21645-51-2	aluminium hydroxide	0.3 - 1.0%	
7631-86-9	amorphous Silica	0.3 - 1.0%	
1333-86-4	carbon black	0.1 - 0.3%	
85711-55-3	Fatty acids, tall-oil, compds. with oleylamine	0.1 - 0.3%	√
1314-13-2	zinc oxide	0.1 - 0.3%	√

Non-regulated ingredients 20 - 30%

4. First aid measures

Eye contact
Remove contact lenses. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Seek medical advice.

Skin contact
Do NOT use solvents or thinners. Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. If skin irritation persists, call a physician.

Inhalation
Avoid inhalation of vapour or mist. Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

Ingestion
If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting. Keep at rest.

Most Important Symptoms/effects, acute and delayed

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Notes to physician
No data available on the product. See section 3 and 11 for hazardous ingredients found in the product.

5. Firefighting measures

Suitable extinguishing media
Universal aqueous film-forming foam, Carbon dioxide (CO2), Dry chemical, Water spray.

Extinguishing media which shall not be used for safety reasons
High volume water jet

Specific hazards
Flammable liquid. Vapours may form explosive mixtures with air. Remove all sources of ignition. Solvent vapours are heavier than air and may spread along floors. Do not allow run-off from fire fighting to enter drains or water courses. Never use pressure to empty container: container is not a pressure vessel. Always keep in containers of same material as the original one.

Special Protective Equipment and Fire Fighting Procedures
Wear as appropriate: Full protective flameproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. In the event of fire, cool tanks with water spray.

6. Accidental release measures

Personal precautions
Keep in a well-ventilated place. Keep away from sources of ignition. Comply with safety directives (see chapters 7 and 8). Do not inhale vapours.

Environmental precautions
Do not let product enter drains. Notify the respective authorities in accordance with local law in the case of contamination of rivers, lakes or waste water systems.

Methods for cleaning up
Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations. Clean preferably with a detergent; avoid use of solvents.

7. Handling and storage

Handling
Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Safe handling advice
Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation may charge electrostatically: always use grounded leads when transferring from one container to another. Operators should wear antistatic footwear and clothing. No sparking tools should be used. Avoid skin and eye contact. Do not breathe vapours or spray mist. Smoking, eating and drinking should be prohibited in the application area.

Storage
Suitable storage conditions
Observe label precautions. Store between 5 and 25 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Suitable container and packaging materials for safe storage
Always keep in containers made of the same material as the supply container.

8. Exposure controls/personal protection

Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

National occupational exposure limits
Workplace Exposure Standards (WESs) 2002

Chemical Name		
Kaolin	TWA	2 mg/m3
n-butyl acetate	TWA	150 ppm
	STEL	200 ppm
	STEL	950 mg/m3
	TWA	713 mg/m3
Titanium dioxide	TWA	10 mg/m3
xylene	TWA	50 ppm
	TWA	217 mg/m3
trizinc bis(orthophosphate)	TWA	10 mg/m3
Talc (Mg3H2(SiO3)4)	TWA	2 mg/m3
1,2,4-trimethylbenzene	TWA	25 ppm
	TWA	123 mg/m3
ethylbenzene	TWA	100 ppm
	STEL	125 ppm
	STEL	543 mg/m3
	TWA	434 mg/m3
mesitylene	TWA	25 ppm
	TWA	25 ppm
	TWA	123 mg/m3
	TWA	123 mg/m3
aluminium hydroxide	TWA	2 mg/m3
amorphous Silica	TWA	10 mg/m3
carbon black	TWA	3 mg/m3
zinc oxide	STEL	10 mg/m3
	TWA	5 mg/m3

Engineering measures
Provide adequate ventilation. This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

Protective equipment
Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

Respiratory protection
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Eye protection
Wear protective eyewear for protection against solvent spatter.

Hand protection
The breakthrough time of gloves is unknown for the product itself. The glove material given is recommended on basis of the substances in the preparation.

Chemical Name	Glove material	Glove thickness	Break through time
n-butyl acetate	Viton (R) ®	0.7 mm	10 min
	Nitrile rubber	0.33 mm	30 min
xylene	Nitrile rubber	0.33 mm	30 min
	Viton (R) ®	0.7 mm	480 min
solvent naphtha (petroleum), light arom. (<0,1% benzene)	Viton (R) ®	0.7 mm	30 min

The protective glove should be checked in each case for their work specific suitability (e.g. mechanical stability, product compatibility, and anti-static properties). When the intended use is for spray application a nitrile glove of the chemical resistance group 3 (e.g. Dermatril® glove) is to be used. After contamination, the glove has to be changed. If immersing the hands into the product is not avoidable (e.g. maintenance work) a butyl or fluorocarbon rubber glove should be used. When skin exposure may occur to materials specified in section 3 of this SDS, advice should be sought from the glove supplier as to appropriate type to use with this product and the permeation breakthrough times. Care should be taken when working with sharp edged articles as these can easily damage the gloves and make them ineffective. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. Damaged gloves or those showing signs of wear should be replaced immediately.

Skin and body protection
Wear suitable protective clothing. Personnel should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber.

Hygiene measures
Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use organic solvents!

9. Physical and chemical properties

Appearance

Form : liquid Colour: grey Odour: Characteristic Paint Odor Odor Threshold : no data available

pH	not applicable	
Freezing point	Not applicable.	
Boiling point	135 °C	
Flash point	30 °C	DIN 53213/ISO 1523
Evapouration rate	Slower than Ether	
Flammability		

Upper explosion limit	10.3 %	
Lower explosion limit	0.9 %	
Vapour pressure	3.6 hPa	
Solubility(ies)	partly miscible	
Vapour density	no data available	
Density	1.48 g/cm^3	DIN 53217/ISO 2811
Partition coefficient: n-octanol/water	no data available	
Ignition temperature	401 °C	DIN 51794
Decomposition temperature		
Viscosity (23 °C)	100 s	ISO 2431-1993 6 mm

10. Stability and reactivity

Stability
Stable

Hazardous polymerisation
Will not occur.

Conditions to avoid
Stable under recommended storage and handling conditions (see section 7).

Materials to avoid
Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Hazardous decomposition products
When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

11. Toxicological information

Information on likely routes of exposure

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Delayed and immediate effects and also chronic effects from short and long term exposure:

Acute oral toxicity
not hazardous

Acute dermal toxicity
not hazardous

Acute inhalation toxicity
not hazardous

% of unknown composition 0 %

Skin corrosion/irritation

n-butyl acetate	Category 3
xylene	Category 2
1,2,4-trimethylbenzene	Category 2
solvent naphtha (petroleum), light arom. (<0,1% benzene)	Category 3
ethylbenzene	Category 3
mesitylene	Category 3

Serious eye damage/eye irritation
Not classified according to GHS criteria

Respiratory sensitisation
Not classified according to GHS criteria

Skin sensitisation

Fatty acids, tall-oil, compds. with oleylamine	Category 1A

Germ cell mutagenicity
Not classified according to GHS criteria

Carcinogenicity
Not classified according to GHS criteria

Toxicity for reproduction
Not classified according to GHS criteria

Target Organ Systemic Toxicant - Single exposure
Not classified according to GHS criteria

Target Organ Systemic Toxicant - Repeated exposure
Not classified according to GHS criteria

Aspiration toxicity
Not classified according to GHS criteria

Numerical measures of toxicity (acute toxicity estimation (ATE),etc.)
No information available.

Symptoms related to the physical, chemical and toxicological characteristics
Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Through skin resorbtion, solvents can cause some of the effects described here. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.

12. Ecological information

Product contains environmentally hazardous substances and product is not classified per GHS.

Ecotoxicity effects
There are no data available on the product itself. The product should not be allowed to enter drains or watercourses.

Acute aquatic toxicity

n-butyl acetate	Category 3
Titanium dioxide	Category 3
xylene	Category 3
trizinc bis(orthophosphate)	Category 1
1,2,4-trimethylbenzene	Category 2
solvent naphtha (petroleum), light arom. (<0,1% benzene)	Category 2
ethylbenzene	Category 2
mesitylene	Category 2
aluminium hydroxide	Category 1
zinc oxide	Category 1

Chronic aquatic toxicity

trizinc bis(orthophosphate)	Category 1
1,2,4-trimethylbenzene	Category 2
solvent naphtha (petroleum), light arom. (<0,1% benzene)	Category 2
mesitylene	Category 2
aluminium hydroxide	Category 1
zinc oxide	Category 1

% of unknown composition 0%

Persistence and degradability
No information available.

Bioaccumulation
No information available.

Mobility in soil
No information available.

Other adverse effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods
Dispose of in accordance with local regulations.

Disposal considerations
A disposal process that converts the waste into energy is recommended. If this is not possible the hazardous waste must be disposed of by incineration.

14. Transport information

NZS5433

Proper shipping name:	PAINT
UN number:	1263
Hazard Class:	3
Packing group:	III
Hazchem Code:	3Y

IMDG (Sea transport)

Proper shipping name:	PAINT

UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	III
Marine Pollutant:	yes [trizinc bis(orthophosphate)]
EmS:	F-E,S-E

ICAO/IATA (Air transport)

Proper shipping name:	PAINT
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	III

Matters needing attention for transportation

Confirm that there is no breakage, corrosion, or leakage from the container before shipping. Be sure to prevent damage to cargo by loading so as to avoid falling, dropping, or collapse. Ship in appropriate containers with denotation of the content in accordance with the relevant statutes and rules.

15. Regulatory information

National regulatory information

HSNO Approval Code	HSR002662
HSNO Classification	
Skin corrosion/irritation	Category 6.3B
Skin sensitisation	Category 6.5B
Flammable liquids	Category 3.1C
Acute aquatic toxicity	Category 9.1B
Chronic aquatic toxicity	Category 9.1B

16. Other information

Revision Note

Version	Changes
2.1	2

Revision Date: 2015-01-29
B11937397

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.

End of Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking

Product name	DP6920 MARINE FINISHES 2K TOPGLOSS
Product code	DP6920
reference number	DP6920

Intended use of the substance/preparation
Coating for professional use

Supplier	Axalta Coating Systems Australia Pty Limited
Street address	15 - 23 Melbourne Road, Riverstone NSW 2765, Australia
Telephone	
Telefax	
Emergency telephone number	NZ Poisons Information Centre Ph: 0800 764 766 24-hour Emergency Number: (64)-9526 2501
Importer	Resene Paints Ltd.
Street/Box	4 Te Apunga Place, Mt Wellington, Auckland, NZ
Nat.-Code/Postal code/City	
Telephone	+64 (09) 259 2738
Date of preparation	2013-08-28

2. Hazards identification

Classified as a Dangerous Good according to NZS 5433
Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001

HSNO Classification

Flammable liquids	Category 3.1C
Skin corrosion/irritation	Category 6.3B
Serious eye damage/eye irritation	Category 6.4A
Respiratory sensitisation	Category 6.5A
Skin sensitisation	Category 6.5B
Target Organ Systemic Toxicant - Single exposure	Category 6.9B
Target Organ Systemic Toxicant - Repeated exposure	Category 6.9B
Acute aquatic toxicity	Category 9.1C
Chronic aquatic toxicity	Category 9.1C

Endpoints which are “”not classified“”, “”cannot classified“” and “”not applicable“” are not shown

GHS-Labelling

Hazard symbols	
Signal word	Danger
Hazard statements	Flammable liquid and vapour. Causes mild skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Causes damage to organs. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.
Precautionary statements	Contaminated work clothing should not be allowed out of the workplace. Keep container tightly closed.

Avoid release to the environment.
Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
Do not eat, drink or smoke when using this product.
Ground/bond container and receiving equipment.
In case of inadequate ventilation wear respiratory protection.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Take precautionary measures against static discharge.
Use explosion-proof electrical/ventilating/lighting equipment.
Use only non-sparking tools.
Wash hands after handling.
Wear protective gloves/ eye protection/ face protection.
If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician.
IF exposed: Call a POISON CENTER or doctor/ physician.
If eye irritation persists: Get medical advice/ attention.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
If skin irritation or rash occurs: Get medical advice/ attention.
Specific treatment (see supplemental first aid instructions on this label).
Store in a well-ventilated place. Keep cool.
Store locked up.
Dispose of contents/container in accordance with local regulation.

Other hazards which do not result in classification
Contains: methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction.

3. Composition/information on ingredients

Pure substance/mixture
Mixture

CAS-No.	Chemical Name	Concentration	GHS Hazardous
123-86-4	n-butyl acetate	20 - 30%	√
64742-95-6	solvent naphtha (petroleum), light arom. (<0,1% benzene)	5 - 10%	√
110-12-3	5-methylhexan-2-one	5 - 10%	√
95-63-6	1,2,4-trimethylbenzene	3 - 5%	√
623-84-7	propane-1,2-diyl diacetate	1 - 3%	√
1330-20-7	xylene	1 - 3%	√
108-67-8	mesitylene	0.3 - 1.0%	√
64-19-7	acetic acid	0.1 - 0.3%	√
98-82-8	cumene	0.1 - 0.3%	√
82919-37-7	methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	0.1 - 0.3%	√
100-41-4	ethylbenzene	0.1 - 0.3%	√
107-98-2	1-methoxy-2-propanol	0.1 - 0.3%	√

Non-regulated ingredients 40 - 50%

4. First aid measures

Eye contact
Remove contact lenses. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Seek medical advice.

Skin contact
Do NOT use solvents or thinners. Take off all contaminated clothing immediately. If skin irritation persists, call a physician.

Inhalation
Avoid inhalation of vapour or mist. Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

Ingestion
If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting. Keep at rest.

Most Important Symptoms/effects, acute and delayed

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Notes to physician
No data available on the product. See section 3 and 11 for hazardous ingredients found in the product.

5. Firefighting measures

Suitable extinguishing media
Universal aqueous film-forming foam, Carbon dioxide (CO2), Dry chemical, Water spray.

Extinguishing media which shall not be used for safety reasons
High volume water jet

Specific hazards
Flammable liquid. Vapours may form explosive mixtures with air. Remove all sources of ignition. Solvent vapours are heavier than air and may spread along floors. Do not allow run-off from fire fighting to enter drains or water courses. Never use pressure to empty container: container is not a pressure vessel. Always keep in containers of same material as the original one.

Special Protective Equipment and Fire Fighting Procedures
Wear as appropriate: Full protective flameproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. In the event of fire, cool tanks with water spray.

6. Accidental release measures

Personal precautions
Keep in a well-ventilated place. Keep away from sources of ignition. Comply with safety directives (see chapters 7 and 8). Do not inhale vapours.

Environmental precautions
Do not let product enter drains. Notify the respective authorities in accordance with local law in the case of contamination of rivers, lakes or waste water systems.

Methods for cleaning up
Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations. Clean preferably with a detergent; avoid use of solvents.

7. Handling and storage

Handling
Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Safe handling advice
Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation may charge electrostatically: always use grounded leads when transferring from one container to another. Operators should wear antistatic footwear and clothing. No sparking tools should be used. Avoid skin and eye contact. Do not breathe vapours or spray mist. Smoking, eating and drinking should be prohibited in the application area.

Storage
Suitable storage conditions
Observe label precautions. Store between 5 and 25 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Suitable container and packaging materials for safe storage
Always keep in containers made of the same material as the supply container.

8. Exposure controls/personal protection

Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

National occupational exposure limits
Workplace Exposure Standards (WESs) 2002

Chemical Name		
n-butyl acetate	TWA	150 ppm
	STEL	200 ppm
	STEL	950 mg/m3
	TWA	713 mg/m3
5-methylhexan-2-one	TWA	50 ppm
	TWA	234 mg/m3
1,2,4-trimethylbenzene	TWA	25 ppm
	TWA	123 mg/m3
xylene	TWA	50 ppm
	TWA	217 mg/m3
mesitylene	TWA	25 ppm
	TWA	25 ppm
	TWA	123 mg/m3
	TWA	123 mg/m3
acetic acid	TWA	10 ppm
	STEL	15 ppm
	STEL	37 mg/m3
	TWA	25 mg/m3
cumene	TWA	25 ppm

Chemical Name		
	STEL	75 ppm
	STEL	375 mg/m3
	TWA	125 mg/m3
ethylbenzene	TWA	100 ppm
	STEL	125 ppm
	STEL	543 mg/m3
	TWA	434 mg/m3
1-methoxy-2-propanol	TWA	100 ppm
	STEL	150 ppm
	STEL	553 mg/m3
	TWA	369 mg/m3

Engineering measures
Provide adequate ventilation. This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

Protective equipment
Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

Respiratory protection
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Eye protection
Wear protective eyewear for protection against solvent spatter.

Hand protection
The breakthrough time of gloves is unknown for the product itself. The glove material given is recommended on basis of the substances in the preparation.

Chemical Name	Glove material	Glove thickness	Break through time
n-butyl acetate	Viton (R) ®	0.7 mm	10 min
	Nitrile rubber	0.33 mm	30 min
solvent naphtha (petroleum), light arom. (<0,1% benzene)	Viton (R) ®	0.7 mm	30 min
xylene	Nitrile rubber	0.33 mm	30 min
	Viton (R) ®	0.7 mm	480 min

The protective glove should be checked in each case for their work specific suitability (e.g. mechanical stability, product compatibility, and anti-static properties). When the intended use is for spray application a nitrile glove of the chemical resistance group 3 (e.g. Dermatril® glove) is to be used. After contamination, the glove has to be changed. If immersing the hands into the product is not avoidable (e.g. maintenance work) a butyl or fluorocarbon rubber glove should be used. When skin exposure may occur to materials specified in section 3 of this SDS, advice should be sought from the glove supplier as to appropriate type to use with this product and the permeation breakthrough times. Care should be taken when working with sharp edged articles as these can easily damage the gloves and make them ineffective. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. Damaged gloves or those showing signs of wear should be replaced immediately.

Skin and body protection
Wear suitable protective clothing. Personnel should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber.

Hygiene measures
Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use organic solvents!

9. Physical and chemical properties

Appearance

Form : liquid Colour: clear Odour: Characteristic Paint Odor Odor Threshold : no data available

pH	not applicable	
Freezing point	Not applicable.	
Boiling point	144 °C	
Flash point	35 °C	
Evapouration rate	Slower than Ether	
Flammability		
Upper explosion limit	8.2 %	
Lower explosion limit	0.9 %	
Vapour pressure	4.7 hPa	
Solubility(ies)	moderate	
Vapour density	no data available	
Density	0.97 g/cm^3	DIN 53217/ISO 2811
Partition coefficient: n-octanol/water	no data available	
Ignition temperature	370 °C	DIN 51794
Decomposition temperature		
Viscosity (23 °C)	<20 s	ISO 2431-1993 6 mm

10. Stability and reactivity

Stability
Stable

Hazardous polymerisation
Will not occur.

Conditions to avoid
Stable under recommended storage and handling conditions (see section 7).

Materials to avoid
Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Hazardous decomposition products
When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

11. Toxicological information

Information on likely routes of exposure

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Delayed and immediate effects and also chronic effects from short and long term exposure:

Acute oral toxicity
not hazardous

Acute dermal toxicity
Not classified according to GHS criteria

Acute inhalation toxicity
not hazardous

% of unknown composition 1.6 %

Skin corrosion/irritation

n-butyl acetate	Category 3
solvent naphtha (petroleum), light arom. (<0,1% benzene)	Category 3
5-methylhexan-2-one	Category 3
1,2,4-trimethylbenzene	Category 2
propane-1,2-diyl diacetate	Category 3
xylene	Category 2
mesitylene	Category 3
acetic acid	Category 1A
ethylbenzene	Category 3
1-methoxy-2-propanol	Category 3

Serious eye damage/eye irritation

5-methylhexan-2-one	Category 2A
1,2,4-trimethylbenzene	Category 2
propane-1,2-diyl diacetate	Category 2A
xylene	Category 2
mesitylene	Category 2A
acetic acid	Category 1
ethylbenzene	Category 2B
1-methoxy-2-propanol	Category 2B

Respiratory sensitisation

acetic acid	Category 1

Skin sensitisation

methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Category 1

Germ cell mutagenicity
Not classified according to GHS criteria

Carcinogenicity
Not classified according to GHS criteria

Toxicity for reproduction
Not classified according to GHS criteria

Target Organ Systemic Toxicant - Single exposure

- **Inhalation**

  Respiratory system 1-methoxy-2-propanol, 1,2,4-trimethylbenzene, cumene, propane-1,2-diyl diacetate

  Central nervous system 1,2,4-trimethylbenzene, propane-1,2-diyl diacetate

Target Organ Systemic Toxicant - Repeated exposure

- **Skin Absorption**

  Central nervous system 1-methoxy-2-propanol, 1,2,4-trimethylbenzene

- **Inhalation**

  Respiratory system 1-methoxy-2-propanol

Aspiration toxicity
Not classified according to GHS criteria

Numerical measures of toxicity (acute toxicity estimation (ATE),etc.)
No information available.

Symptoms related to the physical, chemical and toxicological characteristics
Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Through skin resorbtion, solvents can cause some of the effects described here. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.

12. Ecological information

Product contains environmentally hazardous substances and product is not classified per GHS.

Ecotoxicity effects
There are no data available on the product itself. The product should not be allowed to enter drains or watercourses.

Acute aquatic toxicity

n-butyl acetate	Category 3
solvent naphtha (petroleum), light arom. (<0,1% benzene)	Category 2
1,2,4-trimethylbenzene	Category 2
propane-1,2-diyl diacetate	Category 3
xylene	Category 3
mesitylene	Category 2
cumene	Category 2
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Category 1
ethylbenzene	Category 2

Chronic aquatic toxicity

solvent naphtha (petroleum), light arom. (<0,1% benzene)	Category 2
1,2,4-trimethylbenzene	Category 2
mesitylene	Category 2
cumene	Category 2
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Category 1

% of unknown composition 1.6%

Persistence and degradability
No information available.

Bioaccumulation
No information available.

Mobility in soil
No information available.

Other adverse effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods
Dispose of in accordance with local regulations.

Disposal considerations
A disposal process that converts the waste into energy is recommended. If this is not possible the hazardous waste must be disposed of by incineration.

14. Transport information

NZS5433

Proper shipping name:	PAINT
UN number:	1263
Hazard Class:	3
Packing group:	III
Hazchem Code:	3Y

IMDG (Sea transport)

Proper shipping name:	PAINT
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	III
Marine Pollutant:	no
EmS:	F-E,S-E

ICAO/IATA (Air transport)

Proper shipping name:	PAINT
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	III

Matters needing attention for transportation
Confirm that there is no breakage, corrosion, or leakage from the container before shipping. Be sure to prevent damage to cargo by loading so as to avoid falling, dropping, or collapse. Ship in appropriate containers with denotation of the content in accordance with the relevant statutes and rules.

15. Regulatory information

National regulatory information

HSNO Approval Code	HSR002662
HSNO Classification	
Skin corrosion/irritation	Category 6.3B
Serious eye damage/eye irritation	Category 6.4A
Respiratory sensitisation	Category 6.5A
Skin sensitisation	Category 6.5B
Target Organ Systemic Toxicant - Single exposure	Category 6.9B
Target Organ Systemic Toxicant - Repeated exposure	Category 6.9B
Flammable liquids	Category 3.1C
Acute aquatic toxicity	Category 9.1C
Chronic aquatic toxicity	Category 9.1C

16. Other information

Revision Note

Version	Changes
2.0	2, 3, 8, 9, 11, 12, 15, 16

Revision Date: 2013-08-26
B11892573

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.

1. Identification of the substance/mixture and of the company/undertaking

Product name	DP6940 Marine Superflow HS Clear
Product code	DP6940

Intended use of the substance/preparation
Coating for professional use

Supplier	Axalta Coating Systems Australia Pty Limited
Street address	15 - 23 Melbourne Road, Riverstone NSW 2765, Australia
Telephone	
Telefax	

Emergency Information

Emergency telephone number	+(64) 9801 0034 NZ Poisons Information Centre: 0800 764 766 or +(64) 3 479 7248
Importer	Resene Automotive & Light Industrial
Street/Box	4 Te Apunga Place, Mt Wellington, Auckland, NZ
Nat.-Code/Postal code/City	
Telephone	+64 (09) 259 2738
Date of preparation	2015-01-29

2. Hazards identification

Classified as a Dangerous Good according to NZS 5433
Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001

HSNO Classification

Flammable liquids	Category 3.1C
Skin corrosion/irritation	Category 6.3B
Serious eye damage/eye irritation	Category 6.4A
Skin sensitisation	Category 6.5B
Acute aquatic toxicity	Category 9.1C
Chronic aquatic toxicity	Category 9.1C

Endpoints which are “”not classified“”, “”cannot classified“” and “”not applicable“” are not shown

GHS-Labelling

Hazard symbols

Signal word: Warning

Hazard statements:
Flammable liquid and vapour.
Causes mild skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.
Harmful to aquatic life.
Harmful to aquatic life with long lasting effects.

Precautionary statements:
Avoid release to the environment.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Wear protective gloves/protective clothing/eye protection/face protection.
Avoid breathing dust/ vapours/ spray.
If eye irritation persists: Get medical advice/ attention.
If skin irritation or rash occurs: Get medical advice/ attention.

Wash contaminated clothing before reuse.
Store in a well-ventilated place. Keep cool.

Other hazards which do not result in classification
Contains: bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate; methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction.

3. Composition/information on ingredients

Pure substance/mixture
Mixture

CAS-No.	Chemical Name	Concentration	GHS Hazardous
628-63-7	pentyl acetate	10 - 20%	√
624-41-9	2-methylbutyl acetate	5 - 10%	√
123-86-4	n-butyl acetate	5 - 10%	√
110-12-3	5-methylhexan-2-one	5 - 10%	√
64742-95-6	solvent naphtha (petroleum), light arom. (<0,1% benzene)	3 - 5%	√
95-63-6	1,2,4-trimethylbenzene	1 - 3%	√
112-07-2	2-butoxyethyl acetate	1 - 3%	√
No information available.	A mixture of: α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-hydroxypoly(oxyethylene); α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)	1 - 3%	√
108-67-8	mesitylene	0.3 - 1.0%	√
41556-26-7	bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	0.3 - 1.0%	√
112-34-5	2-(2-butoxyethoxy)ethanol	0.3 - 1.0%	√
107-98-2	1-methoxy-2-propanol	0.3 - 1.0%	√
64-19-7	acetic acid	0.1 - 0.3%	√
98-82-8	cumene	0.1 - 0.3%	√
82919-37-7	methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	0.1 - 0.3%	√
108-65-6	2-methoxy-1-methylethyl acetate	0.1 - 0.3%	√
1330-20-7	xylene	0.1 - 0.3%	√

Non-regulated ingredients 40 - 50%

4. First aid measures

Eye contact
Remove contact lenses. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Seek medical advice.

Skin contact
Do NOT use solvents or thinners. Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. If skin irritation persists, call a physician.

Inhalation
Avoid inhalation of vapour or mist. Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

Ingestion
If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting. Keep at rest.

Most Important Symptoms/effects, acute and delayed

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Notes to physician
No data available on the product. See section 3 and 11 for hazardous ingredients found in the product.

5. Firefighting measures

Suitable extinguishing media
Universal aqueous film-forming foam, Carbon dioxide (CO2), Dry chemical, Water spray.

Extinguishing media which shall not be used for safety reasons
High volume water jet

Specific hazards
The product is not flammable. Avoid heating above flash point. Do not allow run-off from fire fighting to enter drains or water courses. Never use pressure to empty container: container is not a pressure vessel. Always keep in containers of same material as the original one.

Special Protective Equipment and Fire Fighting Procedures
Wear as appropriate: Full protective flameproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. In the event of fire, cool tanks with water spray.

6. Accidental release measures

Personal precautions
Keep in a well-ventilated place. Keep away from sources of ignition. Comply with safety directives (see chapters 7 and 8). Do not inhale vapours.

Environmental precautions
Do not let product enter drains. Notify the respective authorities in accordance with local law in the case of contamination of rivers, lakes or waste water systems.

Methods for cleaning up
Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations. Clean preferably with a detergent; avoid use of solvents.

7. Handling and storage

Handling
Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Safe handling advice
Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation may charge electrostatically: always use grounded leads when transferring from one container to another. Operators should wear antistatic footwear and clothing. No sparking tools should be used. Avoid skin and eye contact. Do not breathe vapours or spray mist. Smoking, eating and drinking should be prohibited in the application area.

Storage
Suitable storage conditions
Observe label precautions. Store between 5 and 25 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Suitable container and packaging materials for safe storage
Always keep in containers made of the same material as the supply container.

8. Exposure controls/personal protection

Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

National occupational exposure limits
Workplace Exposure Standards (WESs) 2002

Chemical Name		
pentyl acetate	TWA	100 ppm
	TWA	532 mg/m3
n-butyl acetate	TWA	150 ppm
	STEL	200 ppm
	STEL	950 mg/m3
	TWA	713 mg/m3
5-methylhexan-2-one	TWA	50 ppm
	TWA	234 mg/m3
1,2,4-trimethylbenzene	TWA	25 ppm
	TWA	123 mg/m3
mesitylene	TWA	25 ppm
	TWA	25 ppm
	TWA	123 mg/m3
	TWA	123 mg/m3
1-methoxy-2-propanol	TWA	100 ppm

Chemical Name		
	STEL	150 ppm
	STEL	553 mg/m3
	TWA	369 mg/m3
acetic acid	TWA	10 ppm
	STEL	15 ppm
	STEL	37 mg/m3
	TWA	25 mg/m3
cumene	TWA	25 ppm
	STEL	75 ppm
	STEL	375 mg/m3
	TWA	125 mg/m3
xylene	TWA	50 ppm
	TWA	217 mg/m3

Engineering measures
Provide adequate ventilation. This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

Protective equipment
Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

Respiratory protection
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Eye protection
Wear protective eyewear for protection against solvent spatter.

Hand protection
The breakthrough time of gloves is unknown for the product itself. The glove material given is recommended on basis of the substances in the preparation.

Chemical Name	Glove material	Glove thickness	Break through time
n-butyl acetate	Viton (R) ®	0.7 mm	10 min
	Nitrile rubber	0.33 mm	30 min
solvent naphtha (petroleum), light arom. (<0,1% benzene)	Viton (R) ®	0.7 mm	30 min
2-butoxyethyl acetate	Viton (R) ®	0.7 mm	480 m
	Nitrile rubber	0.33 mm	480 m
xylene	Nitrile rubber	0.33 mm	30 min
	Viton (R) ®	0.7 mm	480 min

The protective glove should be checked in each case for their work specific suitability (e.g. mechanical stability, product compatibility, and anti-static properties). When the intended use is for spray application a nitrile glove of the chemical resistance

group 3 (e.g. Dermatril® glove) is to be used. After contamination, the glove has to be changed. If immersing the hands into the product is not avoidable (e.g. maintenance work) a butyl or fluorocarbon rubber glove should be used. When skin exposure may occur to materials specified in section 3 of this SDS, advice should be sought from the glove supplier as to appropriate type to use with this product and the permeation breakthrough times. Care should be taken when working with sharp edged articles as these can easily damage the gloves and make them ineffective. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. Damaged gloves or those showing signs of wear should be replaced immediately.

Skin and body protection
Wear suitable protective clothing. Personnel should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber.

Hygiene measures
Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use organic solvents!

9. Physical and chemical properties

Appearance

Form : liquid Colour: clear Odor Threshold : no data available

pH	not applicable	
Freezing point	Not applicable.	
Boiling point	144 °C	
Flash point	38 °C	DIN 53213/ISO 1523
Evapouration rate	Slower than Ether	
Flammability		
Upper explosion limit	10.3 %	
Lower explosion limit	0.9 %	
Vapour pressure	2.9 hPa	
Solubility(ies)	moderate	
Vapour density	no data available	
Density	0.98 g/cm^3	DIN 53217/ISO 2811
Partition coefficient: n-octanol/water	no data available	
Ignition temperature	360 °C	DIN 51794
Decomposition temperature		
Viscosity (23 °C)	<20 s	ISO 2431-1993 6 mm

10. Stability and reactivity

Stability
Stable

Hazardous polymerisation
Will not occur.

Conditions to avoid
Stable under recommended storage and handling conditions (see section 7).

Materials to avoid
Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Hazardous decomposition products
When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

11. Toxicological information

Information on likely routes of exposure

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Delayed and immediate effects and also chronic effects from short and long term exposure:

Acute oral toxicity
not hazardous

Acute dermal toxicity
not hazardous

Acute inhalation toxicity
not hazardous

% of unknown composition 7.2 %

Skin corrosion/irritation

pentyl acetate	Category 3
2-methylbutyl acetate	Category 3
n-butyl acetate	Category 3
5-methylhexan-2-one	Category 3
solvent naphtha (petroleum), light arom. (<0,1% benzene)	Category 3
1,2,4-trimethylbenzene	Category 2
mesitylene	Category 3
2-(2-butoxyethoxy)ethanol	Category 3
1-methoxy-2-propanol	Category 3
acetic acid	Category 1A
xylene	Category 2

Serious eye damage/eye irritation

pentyl acetate	Category 2A
5-methylhexan-2-one	Category 2A
1,2,4-trimethylbenzene	Category 2A
mesitylene	Category 2A
2-(2-butoxyethoxy)ethanol	Category 2A
1-methoxy-2-propanol	Category 2B
acetic acid	Category 1
2-methoxy-1-methylethyl acetate	Category 2A
xylene	Category 2A

Respiratory sensitisation
Not classified according to GHS criteria

Skin sensitisation

A mixture of: α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-hydroxypoly(oxyethylene); α-3-(3-(2H-benzotriazol-2-yl)-5-tert-b
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

Germ cell mutagenicity
Not classified according to GHS criteria

Carcinogenicity
Not classified according to GHS criteria

Toxicity for reproduction
Not classified according to GHS criteria

Target Organ Systemic Toxicant - Single exposure
Not classified according to GHS criteria

Target Organ Systemic Toxicant - Repeated exposure
Not classified according to GHS criteria

Aspiration toxicity
Not classified according to GHS criteria

Numerical measures of toxicity (acute toxicity estimation (ATE),etc.)
No information available.

Symptoms related to the physical, chemical and toxicological characteristics
Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Through skin resorbtion, solvents can cause some of the effects described here. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.

12. Ecological information

Product contains environmentally hazardous substances and product is not classified per GHS.

Ecotoxicity effects
There are no data available on the product itself. The product should not be allowed to enter drains or watercourses.

Acute aquatic toxicity

n-butyl acetate	Category 3
solvent naphtha (petroleum), light arom. (<0,1% benzene)	Category 2
1,2,4-trimethylbenzene	Category 2
2-butoxyethyl acetate	Category 3
mesitylene	Category 2
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	Category 1
cumene	Category 2
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Category 1
xylene	Category 3

Chronic aquatic toxicity

pentyl acetate
solvent naphtha (petroleum), light arom. (<0,1% benzene)
1,2,4-trimethylbenzene
A mixture of: α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-hydroxypoly(oxyethylene); α-3-(3-(2H-benzotriazol-2-yl)-5-tert-b
mesitylene
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate
cumene
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

% of unknown composition 7.2%

Persistence and degradability
No information available.

Bioaccumulation
No information available.

Mobility in soil
No information available.

Other adverse effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods
Dispose of in accordance with local regulations.

Disposal considerations
A disposal process that converts the waste into energy is recommended. If this is not possible the hazardous waste must be disposed of by incineration.

14. Transport information

NZS5433

Proper shipping name:	PAINT
UN number:	1263
Hazard Class:	3
Packing group:	III
Hazchem Code:	3Y

IMDG (Sea transport)

Proper shipping name:	PAINT
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	III
Marine Pollutant:	no
EmS:	F-E,S-E

ICAO/IATA (Air transport)

Proper shipping name:	PAINT
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	III

Matters needing attention for transportation
Confirm that there is no breakage, corrosion, or leakage from the container before shipping. Be sure to prevent damage to cargo by loading so as to avoid falling, dropping, or collapse. Ship in appropriate containers with denotation of the content in accordance with the relevant statutes and rules.

15. Regulatory information

National regulatory information

HSNO Approval Code	HSR002662
HSNO Classification	
Skin corrosion/irritation	Category 6.3B
Serious eye damage/eye irritation	Category 6.4A
Skin sensitisation	Category 6.5B
Flammable liquids	Category 3.1C
Acute aquatic toxicity	Category 9.1C
Chronic aquatic toxicity	Category 9.1C

16. Other information

Revision Note

Version	Changes
1.0	

Revision Date: 2015-01-29
B12808921

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.

End of Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking

Product name	DP8130 MARINE FIN ALU GRIP PRIMER
Product code	DP8130
reference number	DP8130

Intended use of the substance/preparation
Coating for professional use

Supplier	Axalta Coating Systems Australia Pty Limited
Street address	15 - 23 Melbourne Road, Riverstone NSW 2765, Australia
Telephone	
Telefax	
Emergency telephone number	NZ Poisons Information Centre Ph: 0800 764 766 24-hour Emergency Number: (64)-9526 2501
Importer	Resene Paints Ltd.
Street/Box	4 Te Apunga Place, Mt Wellington, Auckland, NZ
Nat.-Code/Postal code/City	
Telephone	+64 (09) 259 2738
Date of preparation	2013-08-28

2. Hazards identification

Classified as a Dangerous Good according to NZS 5433
Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001

HSNO Classification

Flammable liquids	Category 3.1C
Acute oral toxicity	Category 6.1E
Acute inhalation toxicity	Category 6.1E
Skin corrosion/irritation	Category 6.3A
Serious eye damage/eye irritation	Category 6.4A
Toxicity for reproduction	Category 6.8B
Target Organ Systemic Toxicant - Single exposure	Category 6.9A
Target Organ Systemic Toxicant - Repeated exposure	Category 6.9B
Acute aquatic toxicity	Category 9.1C
Ecotoxic to terrestrial invertebrates	Category 9.4C

Endpoints which are “”not classified“”, “”cannot classified“” and “”not applicable“” are not shown

GHS-Labelling

Hazard symbols	
Signal word	Danger
Hazard statements	Flammable liquid and vapour. May be harmful if swallowed. May be harmful if inhaled. Causes skin irritation. Causes serious eye irritation. Suspected of damaging fertility or the unborn child. Causes damage to organs. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life.
Precautionary statements	Keep container tightly closed. Avoid release to the environment.

Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
Do not eat, drink or smoke when using this product.
Ground/bond container and receiving equipment.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Obtain special instructions before use.
Take precautionary measures against static discharge.
Use explosion-proof electrical/ventilating/lighting equipment.
Use only non-sparking tools.
Wash hands after handling.
Wear protective gloves/ eye protection/ face protection.
IF exposed: Call a POISON CENTER or doctor/ physician.
If eye irritation persists: Get medical advice/ attention.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF INHALED: Call a POISON CENTER or doctor/ physician if you feel unwell.
IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
If skin irritation occurs, seek medical advice/attention.
Specific treatment (see supplemental first aid instructions on this label).
Store in a well-ventilated place. Keep cool.
Store locked up.
Dispose of contents/container in accordance with local regulation.

Other hazards which do not result in classification
Contains epoxy constituents. See information supplied by the manufacturer.

3. Composition/information on ingredients

Pure substance/mixture
Mixture

CAS-No.	Chemical Name	Concentration	GHS Hazardous
1330-20-7	xylene	30 - 40%	√
108-10-1	4-methylpentan-2-one	10 - 20%	√
100-41-4	ethylbenzene	5 - 10%	√
107-98-2	1-methoxy-2-propanol	1 - 3%	√
108-88-3	toluene	0.1 - 0.3%	√

Non-regulated ingredients 40 - 50%

4. First aid measures

Eye contact
Remove contact lenses. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Seek medical advice.

Skin contact
Do NOT use solvents or thinners. Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. If skin irritation persists, call a physician.

Inhalation
Avoid inhalation of vapour or mist. Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

Ingestion
If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting. Keep at rest.

Most Important Symptoms/effects, acute and delayed

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Notes to physician
No data available on the product. See section 3 and 11 for hazardous ingredients found in the product.

5. Firefighting measures

Suitable extinguishing media
Universal aqueous film-forming foam, Carbon dioxide (CO2), Dry chemical, Water spray.

Extinguishing media which shall not be used for safety reasons
High volume water jet

Specific hazards
Flammable liquid. Vapours may form explosive mixtures with air. Remove all sources of ignition. Solvent vapours are heavier than air and may spread along floors. Do not allow run-off from fire fighting to enter drains or water courses. Never use pressure to empty container: container is not a pressure vessel. Always keep in containers of same material as the original one.

Special Protective Equipment and Fire Fighting Procedures
Wear as appropriate: Full protective flameproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. In the event of fire, cool tanks with water spray.

6. Accidental release measures

Personal precautions
Keep in a well-ventilated place. Keep away from sources of ignition. Comply with safety directives (see chapters 7 and 8). Do not inhale vapours.

Environmental precautions
Do not let product enter drains. Notify the respective authorities in accordance with local law in the case of contamination of rivers, lakes or waste water systems.

Methods for cleaning up
Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations. Clean preferably with a detergent; avoid use of solvents.

7. Handling and storage

Safe handling advice
Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation may charge electrostatically: always use grounded leads when transferring from one container to another. Operators should wear antistatic footwear and clothing. No sparking tools should be used. Avoid skin and eye contact. Do not breathe vapours or spray mist. Smoking, eating and drinking should be prohibited in the application area.

Storage
Suitable storage conditions
Observe label precautions. Store between 5 and 25 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Suitable container and packaging materials for safe storage
Always keep in containers made of the same material as the supply container.

8. Exposure controls/personal protection

Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

National occupational exposure limits
Workplace Exposure Standards (WESs) 2002

Chemical Name		
xylene	TWA	50 ppm
	TWA	217 mg/m3
4-methylpentan-2-one	TWA	50 ppm
	STEL	75 ppm
	STEL	307 mg/m3
	TWA	205 mg/m3
ethylbenzene	TWA	100 ppm
	STEL	125 ppm
	STEL	543 mg/m3
	TWA	434 mg/m3
1-methoxy-2-propanol	TWA	100 ppm
	STEL	150 ppm
	STEL	553 mg/m3
	TWA	369 mg/m3
toluene	TWA	50 ppm
	TWA	188 mg/m3

Engineering measures
Provide adequate ventilation. This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

Protective equipment
Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

Respiratory protection
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Eye protection
Wear protective eyewear for protection against solvent spatter.

Hand protection
The breakthrough time of gloves is unknown for the product itself. The glove material given is recommended on basis of the substances in the preparation.

Chemical Name	Glove material	Glove thickness	Break through time
xylene	Nitrile rubber	0.33 mm	30 min
	Viton (R) ®	0.7 mm	480 min

The protective glove should be checked in each case for their work specific suitability (e.g. mechanical stability, product compatibility, and anti-static properties). When the intended use is for spray application a nitrile glove of the chemical resistance group 3 (e.g. Dermatril® glove) is to be used. After contamination, the glove has to be changed. If immersing the hands into the product is not avoidable (e.g. maintenance work) a butyl or fluorocarbon rubber glove should be used. When skin exposure may occur to materials specified in section 3 of this SDS, advice should be sought from the glove supplier as to appropriate type to use with this product and the permeation breakthrough times. Care should be taken when working with sharp edged articles as these can easily damage the gloves and make them ineffective. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. Damaged gloves or those showing signs of wear should be replaced immediately.

Skin and body protection
Wear suitable protective clothing. Personnel should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber.

Hygiene measures
Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use organic solvents!

9. Physical and chemical properties

Appearance

Form : liquid Colour: diverse Odor Threshold : no data available

pH	not applicable	
Freezing point	Not applicable.	
Boiling point	Not applicable.	
Flash point	27 °C	DIN 53213/ISO 1523
Evapouration rate	Slower than Ether	
Flammability		
Upper explosion limit	Not applicable.	
Lower explosion limit	Not applicable.	
Vapour pressure	Not applicable.	
Solubility(ies)	moderate	
Vapour density	no data available	
Density	1.13 g/cm^3	DIN 53217/ISO 2811
Partition coefficient: n-octanol/water	no data available	
Ignition temperature	Not applicable.	DIN 51794
Decomposition temperature		
Viscosity (23 °C)	Not applicable.	ISO 2431-1993

10. Stability and reactivity

Stability
Stable

Hazardous polymerisation
Will not occur.

Conditions to avoid
Stable under recommended storage and handling conditions (see section 7).

Materials to avoid
Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Hazardous decomposition products
When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

11. Toxicological information

Information on likely routes of exposure

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Delayed and immediate effects and also chronic effects from short and long term exposure:

Acute oral toxicity

xylene	Category 5
4-methylpentan-2-one	Category 5
ethylbenzene	Category 5

Acute dermal toxicity
not hazardous

Acute inhalation toxicity

xylene	Category 4
4-methylpentan-2-one	Category 4
ethylbenzene	Category 4
toluene	Category 5

% of unknown composition 0 %

Skin corrosion/irritation

xylene	Category 2
4-methylpentan-2-one	Category 3
ethylbenzene	Category 3
1-methoxy-2-propanol	Category 3
toluene	Category 2

Serious eye damage/eye irritation

xylene	Category 2
4-methylpentan-2-one	Category 2
ethylbenzene	Category 2B
1-methoxy-2-propanol	Category 2B
toluene	Category 2B

Respiratory sensitisation
Not classified according to GHS criteria

Skin sensitisation
Not classified according to GHS criteria

Germ cell mutagenicity
Not classified according to GHS criteria

Carcinogenicity
Not classified according to GHS criteria

Toxicity for reproduction

toluene	Category 2

Target Organ Systemic Toxicant - Single exposure

- **Skin Absorption**

  Narcotic effects toluene

- **Inhalation**

  Respiratory system 1-methoxy-2-propanol

Target Organ Systemic Toxicant - Repeated exposure

- **Skin Absorption**

  Central nervous system 1-methoxy-2-propanol

- **Inhalation**

  Respiratory system 1-methoxy-2-propanol

Aspiration toxicity
Not classified according to GHS criteria

Numerical measures of toxicity (acute toxicity estimation (ATE),etc.)
No information available.

Symptoms related to the physical, chemical and toxicological characteristics
Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Through skin resorbtion, solvents can cause some of the effects described here. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage. Based on the properties of the epoxy constituent(s) and considering toxicological data on similar preparations, this preparation may be a skin sensitiser and an irritant. Low molecular epoxy constituents are irritating to eyes, mucous membranes and skin. Repeated skin contact may lead to irritation and to sensitization, possibly with cross-sensitization to other epoxies. Avoid skin and eye contact. Avoid inhalation of vapour or mist.

12. Ecological information

Product contains environmentally hazardous substances and product is not classified per GHS.

Ecotoxicity effects
There are no data available on the product itself. The product should not be allowed to enter drains or watercourses.

Acute aquatic toxicity

xylene	Category 3
ethylbenzene	Category 2
toluene	Category 2

Ecotoxic to terrestrial invertebrates

xylene	Category 9.4C

% of unknown composition 40%

Persistence and degradability
No information available.

Bioaccumulation
No information available.

Mobility in soil
No information available.

Other adverse effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods
Dispose of in accordance with local regulations.

Disposal considerations
A disposal process that converts the waste into energy is recommended. If this is not possible the hazardous waste must be disposed of by incineration.

14. Transport information

NZS5433

Proper shipping name:	PAINT
UN number:	1263
Hazard Class:	3
Packing group:	III
Hazchem Code:	3Y

IMDG (Sea transport)

Proper shipping name:	PAINT
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	III
Marine Pollutant:	no
EmS:	F-E,S-E

ICAO/IATA (Air transport)

Proper shipping name:	PAINT
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	III

Matters needing attention for transportation
Confirm that there is no breakage, corrosion, or leakage from the container before shipping. Be sure to prevent damage to cargo by loading so as to avoid falling, dropping, or collapse. Ship in appropriate containers with denotation of the content in accordance with the relevant statutes and rules.

15. Regulatory information

National regulatory information

HSNO Approval Code	HSR002662
HSNO Classification	
Acute oral toxicity	Category 6.1E
Acute inhalation toxicity	Category 6.1E
Skin corrosion/irritation	Category 6.3A
Serious eye damage/eye irritation	Category 6.4A
Toxicity for reproduction	Category 6.8B
Target Organ Systemic Toxicant - Single exposure	Category 6.9A
Target Organ Systemic Toxicant - Repeated exposure	Category 6.9B
Flammable liquids	Category 3.1C
Acute aquatic toxicity	Category 9.1C
Ecotoxic to terrestrial invertebrates	Category 9.4C

16. Other information

Revision Note

Version	Changes
1.0	
Revision Date:	2013-08-26
B12241587	

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.

1. Identification of the substance/mixture and of the company/undertaking

Product name	DP8135 MARINE ALU GRIP PRIMER ACTI
Product code	DP8135
reference number	DP8135

Intended use of the substance/preparation
Hardener for professional use

Supplier	Axalta Coating Systems Australia Pty Limited
Street address	15 - 23 Melbourne Road, Riverstone NSW 2765, Australia
Telephone	
Telefax	
Emergency telephone number	NZ Poisons Information Centre Ph: 0800 764 766 24-hour Emergency Number: (64)-9526 2501
Importer	Resene Paints Ltd.
Street/Box	4 Te Apunga Place, Mt Wellington, Auckland, NZ
Nat.-Code/Postal code/City	
Telephone	+64 (09) 259 2738
Date of preparation	2013-08-28

2. Hazards identification

Classified as a Dangerous Good according to NZS 5433
Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001

HSNO Classification

Flammable liquids	Category 3.1C
Acute oral toxicity	Category 6.1D
Skin corrosion/irritation	Category 6.3A
Serious eye damage/eye irritation	Category 8.3A
Toxicity for reproduction	Category 6.8B
Target Organ Systemic Toxicant - Single exposure	Category 6.9A
Acute aquatic toxicity	Category 9.1C
Ecotoxic to terrestrial invertebrates	Category 9.4C

Endpoints which are “”not classified“”, “”cannot classified“” and “”not applicable“” are not shown

GHS-Labelling

Hazard symbols

Signal word	Danger
Hazard statements	Flammable liquid and vapour. Harmful if swallowed. Causes skin irritation. Causes serious eye damage. Suspected of damaging fertility or the unborn child. Causes damage to organs. Harmful to aquatic life.
Precautionary statements	Keep container tightly closed. Avoid release to the environment. Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. Do not eat, drink or smoke when using this product. Ground/bond container and receiving equipment. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Obtain special instructions before use.
Take precautionary measures against static discharge.
Use explosion-proof electrical/ventilating/lighting equipment.
Use only non-sparking tools.
Wash hands after handling.
Wear protective gloves/ eye protection/ face protection.
IF exposed: Call a POISON CENTER or doctor/ physician.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
If skin irritation occurs, seek medical advice/attention.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
Specific treatment (see supplemental first aid instructions on this label).
Store in a well-ventilated place. Keep cool.
Store locked up.
Dispose of contents/container in accordance with local regulation.

Other hazards which do not result in classification
None known.

3. Composition/information on ingredients

Pure substance/mixture
Mixture

CAS-No.	Chemical Name	Concentration	GHS Hazardous
1330-20-7	xylene	30 - 40%	√
100-41-4	ethylbenzene	5 - 10%	√
71-36-3	n-butanol	5 - 10%	√
78-83-1	iso-butanol	3 - 5%	√
108-88-3	toluene	0.1 - 0.3%	√

Non-regulated ingredients 50 - 60%

4. First aid measures

Eye contact
Remove contact lenses. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Seek medical advice.

Skin contact
Do NOT use solvents or thinners. Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. If skin irritation persists, call a physician.

Inhalation
Avoid inhalation of vapour or mist. Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

Ingestion
If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting. Keep at rest.

Most Important Symptoms/effects, acute and delayed

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Notes to physician
No data available on the product. See section 3 and 11 for hazardous ingredients found in the product.

5. Firefighting measures

Suitable extinguishing media
Universal aqueous film-forming foam, Carbon dioxide (CO2), Dry chemical, Water spray.

Extinguishing media which shall not be used for safety reasons
High volume water jet

Specific hazards
Flammable liquid. Vapours may form explosive mixtures with air. Remove all sources of ignition. Solvent vapours are heavier than air and may spread along floors. Do not allow run-off from fire fighting to enter drains or water courses. Never use pressure to empty container: container is not a pressure vessel. Always keep in containers of same material as the original one.

Special Protective Equipment and Fire Fighting Procedures
Wear as appropriate: Full protective flameproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. In the event of fire, cool tanks with water spray.

6. Accidental release measures

Personal precautions
Keep in a well-ventilated place. Keep away from sources of ignition. Comply with safety directives (see chapters 7 and 8). Do not inhale vapours.

Environmental precautions
Do not let product enter drains. Notify the respective authorities in accordance with local law in the case of contamination of rivers, lakes or waste water systems.

Methods for cleaning up
Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations. Clean preferably with a detergent; avoid use of solvents.

7. Handling and storage

Safe handling advice
Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation may charge electrostatically: always use grounded leads when transferring from one container to another. Operators should wear antistatic footwear and clothing. No sparking tools should be used. Avoid skin and eye contact. Do not breathe vapours or spray mist. Smoking, eating and drinking should be prohibited in the application area.

Storage
Suitable storage conditions
Observe label precautions. Store between 5 and 25 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Suitable container and packaging materials for safe storage
Always keep in containers made of the same material as the supply container.

8. Exposure controls/personal protection

National occupational exposure limits
Workplace Exposure Standards (WESs) 2002

Chemical Name		
xylene	TWA	50 ppm
	TWA	217 mg/m3
ethylbenzene	TWA	100 ppm
	STEL	125 ppm
	STEL	543 mg/m3
	TWA	434 mg/m3
n-butanol	CEIL	150 mg/m3
	CEIL	50 ppm
iso-butanol	TWA	50 ppm
	TWA	152 mg/m3
toluene	TWA	50 ppm
	TWA	188 mg/m3

Engineering measures
Provide adequate ventilation. This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

Protective equipment
Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

Respiratory protection
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Eye protection
Wear protective eyewear for protection against solvent spatter.

Hand protection
The breakthrough time of gloves is unknown for the product itself. The glove material given is recommended on basis of the substances in the preparation.

Chemical Name	Glove material	Glove thickness	Break through time
xylene	Nitrile rubber	0.33 mm	30 min
	Viton (R) ®	0.7 mm	480 min
n-butanol	Viton (R) ®	0.7 mm	480 min
	Nitrile rubber	0.33 mm	480 min

The protective glove should be checked in each case for their work specific suitability (e.g. mechanical stability, product compatibility, and anti-static properties). When the intended use is for spray application a nitrile glove of the chemical resistance group 3 (e.g. Dermatril® glove) is to be used. After contamination, the glove has to be changed. If immersing the hands into the product is not avoidable (e.g. maintenance work) a butyl or fluorocarbon rubber glove should be used. When skin exposure may occur to materials specified in section 3 of this SDS, advice should be sought from the glove supplier as to appropriate type to use with this product and the permeation breakthrough times. Care should be taken when working with sharp edged articles as these can easily damage the gloves and make them ineffective. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. Damaged gloves or those showing signs of wear should be replaced immediately.

Skin and body protection
Wear suitable protective clothing. Personnel should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber.

Hygiene measures
Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use organic solvents!

9. Physical and chemical properties

Appearance

Form : liquid Colour: clear Odor Threshold : no data available

pH	not applicable	
Freezing point	Not applicable.	
Boiling point	120 °C	
Flash point	33 °C	
Evapouration rate	Slower than Ether	
Flammability		
Upper explosion limit	7 %	
Lower explosion limit	1 %	
Vapour pressure	4.1 hPa	
Solubility(ies)	partly miscible	
Vapour density	no data available	
Density	0.92 g/cm^3	DIN 53217/ISO 2811
Partition coefficient: n-octanol/water	no data available	
Ignition temperature	340 °C	DIN 51794
Decomposition temperature		
Viscosity (23 °C)	43 s	ISO 2431-1993 6 mm

10. Stability and reactivity

Stability
Stable

Hazardous polymerisation
Will not occur.

Conditions to avoid
Stable under recommended storage and handling conditions (see section 7).

Materials to avoid
Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Hazardous decomposition products
When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

11. Toxicological information

Information on likely routes of exposure

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Delayed and immediate effects and also chronic effects from short and long term exposure:

Acute oral toxicity

xylene	Category 5
ethylbenzene	Category 5
n-butanol	Category 4

Acute dermal toxicity
not hazardous

Acute inhalation toxicity
not hazardous

% of unknown composition 50.1 %

Skin corrosion/irritation

xylene	Category 2
ethylbenzene	Category 3
n-butanol	Category 2
iso-butanol	Category 2
toluene	Category 2

Serious eye damage/eye irritation

xylene	Category 2
ethylbenzene	Category 2B
n-butanol	Category 1
iso-butanol	Category 1
toluene	Category 2B

Respiratory sensitisation
Not classified according to GHS criteria

Skin sensitisation
Not classified according to GHS criteria

Germ cell mutagenicity
Not classified according to GHS criteria

Carcinogenicity
Not classified according to GHS criteria

Toxicity for reproduction

toluene	Category 2

Target Organ Systemic Toxicant - Single exposure

- **Skin Absorption**

  Narcotic effects toluene

- **Inhalation**

  Central nervous system iso-butanol

Target Organ Systemic Toxicant - Repeated exposure
Not classified according to GHS criteria

Aspiration toxicity
Not classified according to GHS criteria

Numerical measures of toxicity (acute toxicity estimation (ATE),etc.)
No information available.

Symptoms related to the physical, chemical and toxicological characteristics
Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Through skin resorbtion, solvents can cause some of the effects described here. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.

12. Ecological information

Product contains environmentally hazardous substances and product is not classified per GHS.

Ecotoxicity effects
There are no data available on the product itself. The product should not be allowed to enter drains or watercourses.

Acute aquatic toxicity

xylene	Category 3
ethylbenzene	Category 2
toluene	Category 2

Ecotoxic to terrestrial invertebrates

xylene	Category 9.4C

% of unknown composition 50.1%

Persistence and degradability
No information available.

Bioaccumulation
No information available.

Mobility in soil
No information available.

Other adverse effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods
Dispose of in accordance with local regulations.

Disposal considerations
A disposal process that converts the waste into energy is recommended. If this is not possible the hazardous waste must be disposed of by incineration.

14. Transport information

NZS5433

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Packing group:	III
Hazchem Code:	3Y

IMDG (Sea transport)

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	III
Marine Pollutant:	no
EmS:	F-E,S-E

ICAO/IATA (Air transport)

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	III

Matters needing attention for transportation

Confirm that there is no breakage, corrosion, or leakage from the container before shipping. Be sure to prevent damage to cargo by loading so as to avoid falling, dropping, or collapse. Ship in appropriate containers with denotation of the content in accordance with the relevant statutes and rules.

15. Regulatory information

National regulatory information

HSNO Approval Code	HSR002662
HSNO Classification	
Acute oral toxicity	Category 6.1D
Skin corrosion/irritation	Category 6.3A
Serious eye damage/eye irritation	Category 8.3A
Toxicity for reproduction	Category 6.8B
Target Organ Systemic Toxicant - Single exposure	Category 6.9A
Flammable liquids	Category 3.1C
Acute aquatic toxicity	Category 9.1C
Ecotoxic to terrestrial invertebrates	Category 9.4C

16. Other information

Revision Note

Version	Changes
1.0	
Revision Date:	2013-08-26
B12372052	

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.

1. Identification of the substance/mixture and of the company/undertaking

Product name	DP8140 Marine Finishes Universal Primer
Product code	DP8140

Intended use of the substance/preparation
Coating for professional use

Supplier	Axalta Coating Systems Australia Pty Limited
Street address	15 - 23 Melbourne Road, Riverstone NSW 2765, Australia
Telephone	
Telefax	

Emergency Information

Emergency telephone number	+(64) 9801 0034 NZ Poisons Information Centre: 0800 764 766 or +(64) 3 479 7248
Importer	Resene Automotive & Light Industrial
Street/Box	4 Te Apunga Place, Mt Wellington, Auckland, NZ
Nat.-Code/Postal code/City	
Telephone	+64 (09) 259 2738
Date of preparation	2015-01-29

2. Hazards identification

Classified as a Dangerous Good according to NZS 5433
Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001

HSNO Classification

Flammable liquids	Category 3.1C
Acute inhalation toxicity	Category 6.1E
Skin corrosion/irritation	Category 6.3A
Serious eye damage/eye irritation	Category 6.4A
Skin sensitisation	Category 6.5B
Chronic aquatic toxicity	Category 9.1C

Endpoints which are “”not classified“”, “”cannot classified“” and “”not applicable“” are not shown

GHS-Labelling

Hazard symbols	
Signal word	Warning
Hazard statements	May be harmful if inhaled. Flammable liquid and vapour. Harmful to aquatic life with long lasting effects. May cause an allergic skin reaction. Causes skin irritation. Causes serious eye irritation.
Precautionary statements	Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Store in a well-ventilated place. Keep cool. Avoid release to the environment. Avoid breathing dust/ vapours/ spray. Wear protective gloves/protective clothing/eye protection/face protection. If skin irritation or rash occurs: Get medical advice/ attention.

Wash contaminated clothing before reuse.
If eye irritation persists: Get medical advice/ attention.

Other hazards which do not result in classification
Contains epoxy constituents. See information supplied by the manufacturer.

3. Composition/information on ingredients

Pure substance/mixture
Mixture

CAS-No.	Chemical Name	Concentration	GHS Hazardous
7429-90-5	aluminium powder (stabilized)	10 - 20%	√
25036-25-3	Bisphenol A-bisphenol A diglycidyl ether copolymer	10 - 20%	√
14807-96-6	Talc (Mg3H2(SiO3)4)	10 - 20%	
1330-20-7	xylene	10 - 20%	√
25068-38-6	epoxy resin (number average molecular weight <= 700)	5 - 10%	√
111-76-2	2-butoxyethanol	5 - 10%	√
1569-02-4	1-ethoxypropan-2-ol	5 - 10%	√
108-10-1	4-methylpentan-2-one	3 - 5%	√
13463-67-7	Titanium dioxide	3 - 5%	
64742-82-1	naphtha (petroleum), hydrodesulfurized heavy (<0,1% benzene)	1 - 3%	√
64-17-5	ethanol	0.3 - 1.0%	√
100-41-4	ethylbenzene	0.3 - 1.0%	√
67-56-1	methanol	0.3 - 1.0%	√

Non-regulated ingredients 1 - 5%

4. First aid measures

Eye contact
Remove contact lenses. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Seek medical advice.

Skin contact
Do NOT use solvents or thinners. Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. If skin irritation persists, call a physician.

Inhalation
Avoid inhalation of vapour or mist. Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

Ingestion
If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting. Keep at rest.

Most Important Symptoms/effects, acute and delayed

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Notes to physician
No data available on the product. See section 3 and 11 for hazardous ingredients found in the product.

5. Firefighting measures

Suitable extinguishing media
Universal aqueous film-forming foam, Carbon dioxide (CO2), Dry chemical, Water spray.

Extinguishing media which shall not be used for safety reasons
High volume water jet

Specific hazards
Flammable liquid. Vapours may form explosive mixtures with air. Remove all sources of ignition. Solvent vapours are heavier than air and may spread along floors. Do not allow run-off from fire fighting to enter drains or water courses. Never use pressure to empty container: container is not a pressure vessel. Always keep in containers of same material as the original one.

Special Protective Equipment and Fire Fighting Procedures
Wear as appropriate: Full protective flameproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. In the event of fire, cool tanks with water spray.

6. Accidental release measures

Personal precautions
Keep in a well-ventilated place. Keep away from sources of ignition. Comply with safety directives (see chapters 7 and 8). Do not inhale vapours.

Environmental precautions
Do not let product enter drains. Notify the respective authorities in accordance with local law in the case of contamination of rivers, lakes or waste water systems.

Methods for cleaning up
Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations. Clean preferably with a detergent; avoid use of solvents.

7. Handling and storage

Handling
Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Safe handling advice
Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation may charge electrostatically: always use grounded leads when transferring from one container to another. Operators should wear antistatic footwear and clothing. No sparking tools should be used. Avoid skin and eye contact. Do not breathe vapours or spray mist. Smoking, eating and drinking should be prohibited in the application area.

Storage
Suitable storage conditions
Observe label precautions. Store between 5 and 25 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Suitable container and packaging materials for safe storage
Always keep in containers made of the same material as the supply container.

8. Exposure controls/personal protection

Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

National occupational exposure limits
Workplace Exposure Standards (WESs) 2002

Chemical Name		
aluminium powder (stabilized)	TWA	5 mg/m3
Talc (Mg3H2(SiO3)4)	TWA	2 mg/m3
xylene	TWA	50 ppm
	TWA	217 mg/m3
2-butoxyethanol	TWA	25 ppm
	TWA	121 mg/m3
4-methylpentan-2-one	TWA	50 ppm
	STEL	75 ppm
	STEL	307 mg/m3
	TWA	205 mg/m3
Titanium dioxide	TWA	10 mg/m3
ethanol	TWA	1,000 ppm
	TWA	1,880 mg/m3
ethylbenzene	TWA	100 ppm
	STEL	125 ppm
	STEL	543 mg/m3
	TWA	434 mg/m3
methanol	TWA	200 ppm
	STEL	250 ppm
	STEL	328 mg/m3
	TWA	262 mg/m3

Engineering measures
Provide adequate ventilation. This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

Protective equipment
Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

Respiratory protection
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Eye protection
Wear protective eyewear for protection against solvent spatter.

Hand protection
The breakthrough time of gloves is unknown for the product itself. The glove material given is recommended on basis of the substances in the preparation.

Chemical Name	Glove material	Glove thickness	Break through time
xylene	Nitrile rubber	0.33 mm	30 min
	Viton (R) ®	0.7 mm	480 min
2-butoxyethanol	Viton (R) ®	0.7 mm	480 min
	Nitrile rubber	0.33 mm	480 min
naphtha (petroleum), hydrodesulfurized heavy (<0,1% benzene)	Nitrile rubber	0.33 mm	30 min
	Viton (R) ®	0.7 mm	480 min

The protective glove should be checked in each case for their work specific suitability (e.g. mechanical stability, product compatibility, and anti-static properties). When the intended use is for spray application a nitrile glove of the chemical resistance group 3 (e.g. Dermatril® glove) is to be used. After contamination, the glove has to be changed. If immersing the hands into the product is not avoidable (e.g. maintenance work) a butyl or fluorocarbon rubber glove should be used. When skin exposure may occur to materials specified in section 3 of this SDS, advice should be sought from the glove supplier as to appropriate type to use with this product and the permeation breakthrough times. Care should be taken when working with sharp edged articles as these can easily damage the gloves and make them ineffective. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. Damaged gloves or those showing signs of wear should be replaced immediately.

Skin and body protection
Wear suitable protective clothing. Personnel should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber.

Hygiene measures
Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use organic solvents!

9. Physical and chemical properties

Appearance

Form : liquid Colour: grey Odor Threshold : no data available

pH	No data available.	
Freezing point	Not applicable.	
Boiling point	Not applicable.	
Flash point	32 °C	DIN 53213/ISO 1523

Evapouration rate	Slower than Ether	
Flammability		
Upper explosion limit	Not applicable.	
Lower explosion limit	Not applicable.	
Vapour pressure	Not applicable.	
Solubility(ies)	appreciable	
Vapour density	no data available	
Density	1.24 g/cm^3	DIN 53217/ISO 2811
Partition coefficient: n-octanol/water	no data available	
Ignition temperature	Not applicable.	DIN 51794
Decomposition temperature		
Viscosity (23 °C)	>60 s	ISO 2431-1993 6 mm

10. Stability and reactivity

Stability
Stable

Hazardous polymerisation
Will not occur.

Conditions to avoid
Stable under recommended storage and handling conditions (see section 7).

Materials to avoid
Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Hazardous decomposition products
When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

11. Toxicological information

Information on likely routes of exposure

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Delayed and immediate effects and also chronic effects from short and long term exposure:

Acute oral toxicity
not hazardous

Acute dermal toxicity
not hazardous

Acute inhalation toxicity

xylene	Category 4
2-butoxyethanol	Category 4
4-methylpentan-2-one	Category 4
ethylbenzene	Category 4
methanol	Category 3

% of unknown composition 0 %

Skin corrosion/irritation

Bisphenol A-bisphenol A diglycidyl ether copolymer	Category 2
xylene	Category 2
epoxy resin (number average molecular weight <= 700)	Category 2
2-butoxyethanol	Category 2
4-methylpentan-2-one	Category 3
naphtha (petroleum), hydrodesulfurized heavy (<0,1% benzene)	Category 3
ethylbenzene	Category 3

Serious eye damage/eye irritation

Bisphenol A-bisphenol A diglycidyl ether copolymer	Category 2A
xylene	Category 2A
epoxy resin (number average molecular weight <= 700)	Category 2A
2-butoxyethanol	Category 2A
1-ethoxypropan-2-ol	Category 2A
4-methylpentan-2-one	Category 2A
ethanol	Category 2A
ethylbenzene	Category 2B
methanol	Category 2A

Respiratory sensitisation
Not classified according to GHS criteria

Skin sensitisation

Bisphenol A-bisphenol A diglycidyl ether copolymer	Category 1
epoxy resin (number average molecular weight <= 700)	Category 1

Germ cell mutagenicity
Not classified according to GHS criteria

Carcinogenicity
Not classified according to GHS criteria

Toxicity for reproduction
Not classified according to GHS criteria

Target Organ Systemic Toxicant - Single exposure
Not classified according to GHS criteria

Target Organ Systemic Toxicant - Repeated exposure
Not classified according to GHS criteria

Aspiration toxicity
Not classified according to GHS criteria

Numerical measures of toxicity (acute toxicity estimation (ATE),etc.)
No information available.

Symptoms related to the physical, chemical and toxicological characteristics
Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Through skin resorbtion, solvents can cause some of the effects described here. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage. Based on the properties of the epoxy constituent(s) and considering toxicological data on similar preparations, this preparation may be a skin

sensitiser and an irritant. Low molecular epoxy constituents are irritating to eyes, mucous membranes and skin. Repeated skin contact may lead to irritation and to sensitization, possibly with cross-sensitization to other epoxies. Avoid skin and eye contact. Avoid inhalation of vapour or mist.

12. Ecological information

Product contains environmentally hazardous substances and product is not classified per GHS.

Ecotoxicity effects
There are no data available on the product itself. The product should not be allowed to enter drains or watercourses.

Chronic aquatic toxicity

aluminium powder (stabilized)	Category 4
epoxy resin (number average molecular weight <= 700)	Category 2
naphtha (petroleum), hydrodesulfurized heavy (<0,1% benzene)	Category 2

% of unknown composition 0%

Persistence and degradability
No information available.

Bioaccumulation
No information available.

Mobility in soil
No information available.

Other adverse effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods
Dispose of in accordance with local regulations.

Disposal considerations
A disposal process that converts the waste into energy is recommended. If this is not possible the hazardous waste must be disposed of by incineration.

14. Transport information

NZS5433

Proper shipping name:	PAINT
UN number:	1263
Hazard Class:	3
Packing group:	III
Hazchem Code:	3Y

IMDG (Sea transport)

Proper shipping name:	PAINT
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	III
Marine Pollutant:	no

EmS:	F-E,S-E

ICAO/IATA (Air transport)

Proper shipping name:	PAINT
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	III

Matters needing attention for transportation
Confirm that there is no breakage, corrosion, or leakage from the container before shipping. Be sure to prevent damage to cargo by loading so as to avoid falling, dropping, or collapse. Ship in appropriate containers with denotation of the content in accordance with the relevant statutes and rules.

15. Regulatory information

National regulatory information

HSNO Approval Code	HSR002662
HSNO Classification	
Acute inhalation toxicity	Category 6.1E
Skin corrosion/irritation	Category 6.3A
Serious eye damage/eye irritation	Category 6.4A
Skin sensitisation	Category 6.5B
Flammable liquids	Category 3.1C
Chronic aquatic toxicity	Category 9.1C

16. Other information

Revision Note

Version	Changes
1.0	

Revision Date: 2015-01-29
B12241590

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.

End of Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking

Product name	DP8145 Marine Universal Primer Activator
Product code	DP8145

Intended use of the substance/preparation
Hardener for professional use

Supplier	Axalta Coating Systems Australia Pty Limited
Street address	15 - 23 Melbourne Road, Riverstone NSW 2765, Australia
Telephone	
Telefax	

Emergency Information

Emergency telephone number	+(64) 9801 0034 NZ Poisons Information Centre: 0800 764 766 or +(64) 3 479 7248
Importer	Resene Automotive & Light Industrial
Street/Box	4 Te Apunga Place, Mt Wellington, Auckland, NZ
Nat.-Code/Postal code/City	
Telephone	+64 (09) 259 2738
Date of preparation	2015-01-29

2. Hazards identification

Classified as a Dangerous Good according to NZS 5433
Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001

HSNO Classification

Flammable liquids	Category 3.1C
Acute dermal toxicity	Category 6.1E
Acute inhalation toxicity	Category 6.1E
Skin corrosion/irritation	Category 6.3A
Serious eye damage/eye irritation	Category 8.3A
Skin sensitisation	Category 6.5B
Toxicity for reproduction	Category 6.8B
Acute aquatic toxicity	Category 9.1C
Ecotoxic to terrestrial invertebrates	Category 9.4C

Endpoints which are “”not classified“”, “”cannot classified“” and “”not applicable“” are not shown

GHS-Labelling

Hazard symbols	
Signal word	Danger
Hazard statements	Suspected of damaging fertility or the unborn child. Flammable liquid and vapour. Harmful to aquatic life. May cause an allergic skin reaction. Causes skin irritation. Causes serious eye damage. May be harmful in contact with skin or if inhaled.
Precautionary statements	Obtain special instructions before use. IF exposed or concerned: Get medical advice/ attention. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Store in a well-ventilated place. Keep cool.
Avoid release to the environment.
Avoid breathing dust/ vapours/ spray.
Wear protective gloves/protective clothing/eye protection/face protection.
If skin irritation or rash occurs: Get medical advice/ attention.
Wash contaminated clothing before reuse.
Immediately call a POISON CENTER or doctor/ physician.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Other hazards which do not result in classification
None known.

3. Composition/information on ingredients

Pure substance/mixture
Mixture

CAS-No.	Chemical Name	Concentration	GHS Hazardous
68410-23-1	fatty acids, unsaturated, dimers, reaction products with polyethylenepolyamines	40 - 50%	√
1330-20-7	xylene	20 - 30%	√
100-41-4	ethylbenzene	5 - 10%	√
78-83-1	iso-butanol	5 - 10%	√
71-36-3	n-butanol	5 - 10%	√
108-88-3	toluene	0.1 - 0.3%	√

Non-regulated ingredients 0.0 - 0.1%

4. First aid measures

Eye contact
Remove contact lenses. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Seek medical advice.

Skin contact
Do NOT use solvents or thinners. Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. If skin irritation persists, call a physician.

Inhalation
Avoid inhalation of vapour or mist. Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

Ingestion
If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting. Keep at rest.

Most Important Symptoms/effects, acute and delayed

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Notes to physician
No data available on the product. See section 3 and 11 for hazardous ingredients found in the product.

5. Firefighting measures

Suitable extinguishing media
Universal aqueous film-forming foam, Carbon dioxide (CO2), Dry chemical, Water spray.

Extinguishing media which shall not be used for safety reasons
High volume water jet

Specific hazards
Flammable liquid. Vapours may form explosive mixtures with air. Remove all sources of ignition. Solvent vapours are heavier than air and may spread along floors. Do not allow run-off from fire fighting to enter drains or water courses. Never use pressure to empty container: container is not a pressure vessel. Always keep in containers of same material as the original one.

Special Protective Equipment and Fire Fighting Procedures
Wear as appropriate: Full protective flameproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. In the event of fire, cool tanks with water spray.

6. Accidental release measures

Personal precautions
Keep in a well-ventilated place. Keep away from sources of ignition. Comply with safety directives (see chapters 7 and 8). Do not inhale vapours.

Environmental precautions
Do not let product enter drains. Notify the respective authorities in accordance with local law in the case of contamination of rivers, lakes or waste water systems.

Methods for cleaning up
Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations. Clean preferably with a detergent; avoid use of solvents.

7. Handling and storage

Handling
Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Safe handling advice
Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation may charge electrostatically: always use grounded leads when transferring from one container to another. Operators should wear antistatic footwear and clothing. No sparking tools should be used. Avoid skin and eye contact. Do not breathe vapours or spray mist. Smoking, eating and drinking should be prohibited in the application area.

Storage
Suitable storage conditions
Observe label precautions. Store between 5 and 25 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Suitable container and packaging materials for safe storage
Always keep in containers made of the same material as the supply container.

8. Exposure controls/personal protection

Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

National occupational exposure limits
Workplace Exposure Standards (WESs) 2002

Chemical Name		
xylene	TWA	50 ppm
	TWA	217 mg/m3
ethylbenzene	TWA	100 ppm
	STEL	125 ppm
	STEL	543 mg/m3
	TWA	434 mg/m3
iso-butanol	TWA	50 ppm
	TWA	152 mg/m3
n-butanol	CEIL	150 mg/m3
	CEIL	50 ppm
toluene	TWA	50 ppm
	TWA	188 mg/m3

Engineering measures
Provide adequate ventilation. This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

Protective equipment
Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

Respiratory protection
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Eye protection
Wear protective eyewear for protection against solvent spatter.

Hand protection
The breakthrough time of gloves is unknown for the product itself. The glove material given is recommended on basis of the substances in the preparation.

Chemical Name	Glove material	Glove thickness	Break through time
xylene	Nitrile rubber	0.33 mm	30 min
	Viton (R) ®	0.7 mm	480 min
n-butanol	Viton (R) ®	0.7 mm	480 min
	Nitrile rubber	0.33 mm	480 min

The protective glove should be checked in each case for their work specific suitability (e.g. mechanical stability, product compatibility, and anti-static properties). When the intended use is for spray application a nitrile glove of the chemical resistance group 3 (e.g. Dermatril® glove) is to be used. After contamination, the glove has to be changed. If immersing the hands into the product is not avoidable (e.g. maintenance work) a butyl or fluorocarbon rubber glove should be used. When skin exposure may occur to materials specified in section 3 of this SDS, advice should be sought from the glove supplier as to appropriate type to use with this product and the permeation breakthrough times. Care should be taken when working with sharp edged articles as these can easily damage the gloves and make them ineffective. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. Damaged gloves or those showing signs of wear should be replaced immediately.

Skin and body protection
Wear suitable protective clothing. Personnel should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber.

Hygiene measures
Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use organic solvents!

9. Physical and chemical properties

Appearance

Form : liquid Colour: clear Odor Threshold : no data available

pH	not applicable	
Freezing point	Not applicable.	
Boiling point	Not applicable.	
Flash point	33 °C	DIN 53213/ISO 1523
Evapouration rate	Slower than Ether	
Flammability		
Upper explosion limit	Not applicable.	
Lower explosion limit	Not applicable.	
Vapour pressure	Not applicable.	
Solubility(ies)	moderate	
Vapour density	no data available	
Density	0.92 g/cm^3	DIN 53217/ISO 2811
Partition coefficient: n-octanol/water	no data available	
Ignition temperature	Not applicable.	DIN 51794
Decomposition temperature		
Viscosity (23 °C)	60 s	ISO 2431-1993 6 mm

10. Stability and reactivity

Stability
Stable

Hazardous polymerisation
Will not occur.

Conditions to avoid
Stable under recommended storage and handling conditions (see section 7).

Materials to avoid
Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Hazardous decomposition products
When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

11. Toxicological information

Information on likely routes of exposure

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Delayed and immediate effects and also chronic effects from short and long term exposure:

Acute oral toxicity
not hazardous

Acute dermal toxicity

xylene	Category 4
iso-butanol	Category 5
n-butanol	Category 5

Acute inhalation toxicity

xylene	Category 4
ethylbenzene	Category 4
n-butanol	Category 5
toluene	Category 5

% of unknown composition 0 %

Skin corrosion/irritation

fatty acids, unsaturated, dimers, reaction products with polyethylenepolyamines	Category 2
xylene	Category 2
ethylbenzene	Category 3
iso-butanol	Category 2
n-butanol	Category 2
toluene	Category 2

Serious eye damage/eye irritation

fatty acids, unsaturated, dimers, reaction products with polyethylenepolyamines	Category 1
xylene	Category 2A
ethylbenzene	Category 2B
iso-butanol	Category 1
n-butanol	Category 1
toluene	Category 2B

Respiratory sensitisation
Not classified according to GHS criteria

Skin sensitisation

fatty acids, unsaturated, dimers, reaction products with polyethylenepolyamines	Category 1

Germ cell mutagenicity
Not classified according to GHS criteria

Carcinogenicity
Not classified according to GHS criteria

Toxicity for reproduction

toluene	Category 2

Target Organ Systemic Toxicant - Single exposure
Not classified according to GHS criteria

Target Organ Systemic Toxicant - Repeated exposure
Not classified according to GHS criteria

Aspiration toxicity
Not classified according to GHS criteria

Numerical measures of toxicity (acute toxicity estimation (ATE),etc.)
No information available.

Symptoms related to the physical, chemical and toxicological characteristics
Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Through skin resorbtion, solvents can cause some of the effects described here. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.

12. Ecological information

Product contains environmentally hazardous substances and product is not classified per GHS.

Ecotoxicity effects
There are no data available on the product itself. The product should not be allowed to enter drains or watercourses.

Acute aquatic toxicity

xylene	Category 3
ethylbenzene	Category 2
toluene	Category 2

Chronic aquatic toxicity

Ecotoxic to terrestrial invertebrates

xylene	Category 9.4C

% of unknown composition 0%

Persistence and degradability
No information available.

Bioaccumulation
No information available.

Mobility in soil
No information available.

Other adverse effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods
Dispose of in accordance with local regulations.

Disposal considerations
A disposal process that converts the waste into energy is recommended. If this is not possible the hazardous waste must be disposed of by incineration.

14. Transport information

NZS5433

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Packing group:	III
Hazchem Code:	3Y

IMDG (Sea transport)

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	III
Marine Pollutant:	no
EmS:	F-E,S-E

ICAO/IATA (Air transport)

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	III

Matters needing attention for transportation
Confirm that there is no breakage, corrosion, or leakage from the container before shipping. Be sure to prevent damage to cargo by loading so as to avoid falling, dropping, or collapse. Ship in appropriate containers with denotation of the content in accordance with the relevant statutes and rules.

15. Regulatory information

National regulatory information

HSNO Approval Code	HSR002662
HSNO Classification	
Acute dermal toxicity	Category 6.1E
Acute inhalation toxicity	Category 6.1E
Skin corrosion/irritation	Category 6.3A
Serious eye damage/eye irritation	Category 8.3A
Skin sensitisation	Category 6.5B
Toxicity for reproduction	Category 6.8B
Flammable liquids	Category 3.1C
Acute aquatic toxicity	Category 9.1C
Ecotoxic to terrestrial invertebrates	Category 9.4C

16. Other information

Revision Note

Version	Changes
1.0	
Revision Date:	2015-01-29
B12241604	

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.

End of Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking

Product name	MS1 Marine Exterior Clear
Product code	MS1

Intended use of the substance/preparation
Coating for professional use

Supplier	Axalta Coating Systems Australia Pty Limited
Street address	15 - 23 Melbourne Road, Riverstone NSW 2765, Australia
Telephone	
Telefax	

Emergency Information

Emergency telephone number	+(64) 9801 0034 NZ Poisons Information Centre: 0800 764 766 or +(64) 3 479 7248
Importer	Resene Automotive & Light Industrial
Street/Box	4 Te Apunga Place, Mt Wellington, Auckland, NZ
Nat.-Code/Postal code/City	
Telephone	+64 (09) 259 2738
Date of preparation	2015-01-29

2. Hazards identification

Classified as a Dangerous Good according to NZS 5433
Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001

HSNO Classification

Flammable liquids	Category 3.1B
Skin corrosion/irritation	Category 6.3B
Skin sensitisation	Category 6.5B
Acute aquatic toxicity	Category 9.1C

Endpoints which are “”not classified“”, “”cannot classified“” and “”not applicable“” are not shown

GHS-Labelling

Hazard symbols

Signal word: Danger

Hazard statements:
Highly flammable liquid and vapour.
Causes mild skin irritation.
May cause an allergic skin reaction.
Harmful to aquatic life.

Precautionary statements:
Avoid release to the environment.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Keep container tightly closed.
Wear protective gloves/protective clothing/eye protection/face protection.
Avoid breathing dust/ vapours/ spray.
If skin irritation or rash occurs: Get medical advice/ attention.
Wash contaminated clothing before reuse.
Store in a well-ventilated place. Keep cool.

Other hazards which do not result in classification
Contains: bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate; methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction.

3. Composition/information on ingredients

Pure substance/mixture
Mixture

CAS-No.	Chemical Name	Concentration	GHS Hazardous
110-43-0	heptan-2-one	10 - 20%	√
103-09-3	2-ethylhexyl acetate	5 - 10%	√
123-86-4	n-butyl acetate	5 - 10%	√
763-69-9	ethyl 3-ethoxypropionate	5 - 10%	√
67-64-1	acetone	3 - 5%	√
67-63-0	propan-2-ol	1 - 3%	√
41556-26-7	bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	0.3 - 1.0%	√
141-78-6	ethyl acetate	0.3 - 1.0%	√
82919-37-7	methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	0.1 - 0.3%	√

Non-regulated ingredients 50 - 60%

4. First aid measures

Eye contact
Remove contact lenses. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Seek medical advice.

Skin contact
Do NOT use solvents or thinners. Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. If skin irritation persists, call a physician.

Inhalation
Avoid inhalation of vapour or mist. Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

Ingestion
If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting. Keep at rest.

Most Important Symptoms/effects, acute and delayed

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. If this product mixed with an isocyanate activator/hardener (see MSDS for the activator), the following health effects may apply: Exposure to isocyanates may cause respiratory sensitization. This effect may be permanent. Symptoms include an asthma-like reaction with shortness of breath, wheezing, cough or permanent lung sensitization. This effect may be delayed for several hours after exposure. Repeated overexposure to isocyanates may cause a decrease in lung function, which may be permanent. Individuals with lung or breathing problems or prior reactions to isocyanates must not be exposed to vapors or spray mist of this product.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis. If this product is mixed with an isocyanate, skin contact may cause sensitization.

Notes to physician
No data available on the product. See section 3 and 11 for hazardous ingredients found in the product.

5. Firefighting measures

Suitable extinguishing media
Universal aqueous film-forming foam, Carbon dioxide (CO2), Dry chemical, Water spray.

Extinguishing media which shall not be used for safety reasons
High volume water jet

Specific hazards
Flammable liquid. Vapours may form explosive mixtures with air. Remove all sources of ignition. Solvent vapours are heavier than air and may spread along floors. Do not allow run-off from fire fighting to enter drains or water courses. Never use pressure to empty container: container is not a pressure vessel. Always keep in containers of same material as the original one.

Special Protective Equipment and Fire Fighting Procedures
Wear as appropriate: Full protective flameproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. In the event of fire, cool tanks with water spray.

6. Accidental release measures

Personal precautions
Keep in a well-ventilated place. Keep away from sources of ignition. Comply with safety directives (see chapters 7 and 8). Do not inhale vapours.

Environmental precautions
Do not let product enter drains. Notify the respective authorities in accordance with local law in the case of contamination of rivers, lakes or waste water systems.

Methods for cleaning up
Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations. Clean preferably with a detergent; avoid use of solvents.

7. Handling and storage

Handling
Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Safe handling advice
Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation may charge electrostatically: always use grounded leads when transferring from one container to another. Operators should wear antistatic footwear and clothing. No sparking tools should be used. Avoid skin and eye contact. Do not breathe vapours or spray mist. Smoking, eating and drinking should be prohibited in the application area.

Storage
Suitable storage conditions
Observe label precautions. Store between 5 and 25 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Suitable container and packaging materials for safe storage
Always keep in containers made of the same material as the supply container.

8. Exposure controls/personal protection

Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

National occupational exposure limits
Workplace Exposure Standards (WESs) 2002

Chemical Name		
heptan-2-one	TWA	50 ppm
	TWA	233 mg/m3
n-butyl acetate	TWA	150 ppm
	STEL	200 ppm
	STEL	950 mg/m3
	TWA	713 mg/m3
acetone	TWA	500 ppm
	STEL	1,000 ppm
	STEL	2,375 mg/m3
	TWA	1,185 mg/m3
propan-2-ol	TWA	400 ppm
	STEL	500 ppm
	STEL	1,230 mg/m3
	TWA	983 mg/m3
ethyl acetate	TWA	200 ppm
	TWA	720 mg/m3

Engineering measures
Provide adequate ventilation. This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

Protective equipment
Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

Respiratory protection
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Eye protection
Wear protective eyewear for protection against solvent spatter.

Hand protection
The breakthrough time of gloves is unknown for the product itself. The glove material given is recommended on basis of the substances in the preparation.

Chemical Name	Glove material	Glove thickness	Break through time
n-butyl acetate	Viton (R) ®	0.7 mm	10 min
	Nitrile rubber	0.33 mm	30 min
ethyl acetate	Nitrile rubber	0.33 mm	10 min
	Viton (R) ®	0.7 mm	480 min

The protective glove should be checked in each case for their work specific suitability (e.g. mechanical stability, product compatibility, and anti-static properties). When the intended use is for spray application a nitrile glove of the chemical resistance group 3 (e.g. Dermatril® glove) is to be used. After contamination, the glove has to be changed. If immersing the hands into the product is not avoidable (e.g. maintenance work) a butyl or fluorocarbon rubber glove should be used. When skin exposure may occur to materials specified in section 3 of this SDS, advice should be sought from the glove supplier as to appropriate type to use with this product and the permeation breakthrough times. Care should be taken when working with sharp edged articles as these can easily damage the gloves and make them ineffective. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. Damaged gloves or those showing signs of wear should be replaced immediately.

Skin and body protection
Wear suitable protective clothing. Personnel should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber.

Hygiene measures
Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use organic solvents!

9. Physical and chemical properties

Appearance

Form : liquid Colour: clear Odor Threshold : no data available

pH	not applicable	
Freezing point	Not applicable.	
Boiling point	152 °C	
Flash point	7 °C	
Evapouration rate	Slower than Ether	
Flammability		
Upper explosion limit	10.3 %	
Lower explosion limit	1 %	
Vapour pressure	15.2 hPa	
Solubility(ies)	moderate	
Vapour density	no data available	
Density	0.96 g/cm^3	DIN 53217/ISO 2811
Partition coefficient: n-octanol/water	no data available	
Ignition temperature	268 °C	DIN 51794
Decomposition temperature		
Viscosity (23 °C)	Not applicable.	ISO 2431-1993

10. Stability and reactivity

Stability
Stable

Hazardous polymerisation
Will not occur.

Conditions to avoid
Stable under recommended storage and handling conditions (see section 7).

Materials to avoid
Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Hazardous decomposition products
When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

11. Toxicological information

Information on likely routes of exposure

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. If this product mixed with an isocyanate activator/hardener (see MSDS for the activator), the following health effects may apply: Exposure to isocyanates may cause respiratory sensitization. This effect may be permanent. Symptoms include an asthma-like reaction with shortness of breath, wheezing, cough or permanent lung sensitization. This effect may be delayed for several hours after exposure. Repeated overexposure to isocyanates may cause a decrease in lung function, which may be permanent. Individuals with lung or breathing problems or prior reactions to isocyanates must not be exposed to vapors or spray mist of this product.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Delayed and immediate effects and also chronic effects from short and long term exposure:

Acute oral toxicity
not hazardous

Acute dermal toxicity
not hazardous

Acute inhalation toxicity
not hazardous

% of unknown composition 0 %

Skin corrosion/irritation

heptan-2-one	Category 2
2-ethylhexyl acetate	Category 2
n-butyl acetate	Category 3
ethyl 3-ethoxypropionate	Category 3
acetone	Category 3
propan-2-ol	Category 3
ethyl acetate	Category 3

Serious eye damage/eye irritation
Not classified according to GHS criteria

Respiratory sensitisation
Not classified according to GHS criteria

Skin sensitisation

bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	Category 1
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Category 1

Germ cell mutagenicity
Not classified according to GHS criteria

Carcinogenicity
Not classified according to GHS criteria

Toxicity for reproduction
Not classified according to GHS criteria

Target Organ Systemic Toxicant - Single exposure
Not classified according to GHS criteria

Target Organ Systemic Toxicant - Repeated exposure
Not classified according to GHS criteria

Aspiration toxicity
Not classified according to GHS criteria

Numerical measures of toxicity (acute toxicity estimation (ATE),etc.)
No information available.

Symptoms related to the physical, chemical and toxicological characteristics
Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Through skin resorbtion, solvents can cause some of the effects described here. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.

12. Ecological information

Product contains environmentally hazardous substances and product is not classified per GHS.

Ecotoxicity effects
There are no data available on the product itself. The product should not be allowed to enter drains or watercourses.

Acute aquatic toxicity

heptan-2-one	Category 3
2-ethylhexyl acetate	Category 3
n-butyl acetate	Category 3
ethyl 3-ethoxypropionate	Category 3
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	Category 1
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Category 1

% of unknown composition 0%

Persistence and degradability
No information available.

Bioaccumulation
No information available.

Mobility in soil
No information available.

Other adverse effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods
Dispose of in accordance with local regulations.

Disposal considerations
A disposal process that converts the waste into energy is recommended. If this is not possible the hazardous waste must be disposed of by incineration.

14. Transport information

NZS5433

Proper shipping name:	PAINT
UN number:	1263
Hazard Class:	3
Packing group:	II
Hazchem Code:	3YE

IMDG (Sea transport)

Proper shipping name:	PAINT
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	II
Marine Pollutant:	no
EmS:	F-E,S-E

ICAO/IATA (Air transport)

Proper shipping name:	PAINT
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	II

Matters needing attention for transportation
Confirm that there is no breakage, corrosion, or leakage from the container before shipping. Be sure to prevent damage to cargo by loading so as to avoid falling, dropping, or collapse. Ship in appropriate containers with denotation of the content in accordance with the relevant statutes and rules.

15. Regulatory information

National regulatory information

HSNO Approval Code	HSR002662
HSNO Control A	This product must be under the control of an approved handler during use.
HSNO Classification	
Skin corrosion/irritation	Category 6.3B
Skin sensitisation	Category 6.5B
Flammable liquids	Category 3.1B
Acute aquatic toxicity	Category 9.1C

16. Other information

Revision Note

Version	Changes
1.0	

Revision Date: 2015-01-29
B12822833

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.

End of Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking

Product name	TH41 Marine Thinner
Product code	TH41

Intended use of the substance/preparation
Intermediate

Supplier	Axalta Coating Systems Australia Pty Limited
Street address	15 - 23 Melbourne Road, Riverstone NSW 2765, Australia
Telephone	
Telefax	

Emergency Information

Emergency telephone number	+(64) 9801 0034 NZ Poisons Information Centre: 0800 764 766 or +(64) 3 479 7248
Importer	Resene Automotive & Light Industrial
Street/Box	4 Te Apunga Place, Mt Wellington, Auckland, NZ
Nat.-Code/Postal code/City	
Telephone	+64 (09) 259 2738
Date of preparation	2015-01-29

2. Hazards identification

Classified as a Dangerous Good according to NZS 5433
Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001

HSNO Classification

Flammable liquids	Category 3.1C
Acute inhalation toxicity	Category 6.1E
Skin corrosion/irritation	Category 6.3A
Serious eye damage/eye irritation	Category 6.4A
Acute aquatic toxicity	Category 9.1C
Chronic aquatic toxicity	Category 9.1C

Endpoints which are “”not classified“”, “”cannot classified“” and “”not applicable“” are not shown

GHS-Labelling

Hazard symbols	
Signal word	Warning
Hazard statements	Flammable liquid and vapour. May be harmful if inhaled. Causes skin irritation. Causes serious eye irritation. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.
Precautionary statements	Avoid release to the environment. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Wear protective gloves/protective clothing/eye protection/face protection. If eye irritation persists: Get medical advice/ attention. Store in a well-ventilated place. Keep cool.

Other hazards which do not result in classification
None known.

3. Composition/information on ingredients

Pure substance/mixture
Mixture

CAS-No.	Chemical Name	Concentration	GHS Hazardous
108-10-1	4-methylpentan-2-one	20 - 30%	√
64742-95-6	solvent naphtha (petroleum), light arom. (<0,1% benzene)	10 - 20%	√
123-86-4	n-butyl acetate	10 - 20%	√
95-63-6	1,2,4-trimethylbenzene	5 - 10%	√
108-65-6	2-methoxy-1-methylethyl acetate	5 - 10%	√
1330-20-7	xylene	5 - 10%	√
108-67-8	mesitylene	1 - 3%	√
112-07-2	2-butoxyethyl acetate	1 - 3%	√
100-41-4	ethylbenzene	1 - 3%	√
98-82-8	cumene	0.3 - 1.0%	√

Non-regulated ingredients 20 - 30%

4. First aid measures

Eye contact
Remove contact lenses. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Seek medical advice.

Skin contact
Do NOT use solvents or thinners. Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. If skin irritation persists, call a physician.

Inhalation
Avoid inhalation of vapour or mist. Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

Ingestion
If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting. Keep at rest.

Most Important Symptoms/effects, acute and delayed

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Notes to physician
No data available on the product. See section 3 and 11 for hazardous ingredients found in the product.

5. Firefighting measures

Suitable extinguishing media
Universal aqueous film-forming foam, Carbon dioxide (CO2), Dry chemical, Water spray.

Extinguishing media which shall not be used for safety reasons
High volume water jet

Specific hazards
Flammable liquid. Vapours may form explosive mixtures with air. Remove all sources of ignition. Solvent vapours are heavier than air and may spread along floors. Do not allow run-off from fire fighting to enter drains or water courses. Never use pressure to empty container: container is not a pressure vessel. Always keep in containers of same material as the original one.

Special Protective Equipment and Fire Fighting Procedures
Wear as appropriate: Full protective flameproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. In the event of fire, cool tanks with water spray.

6. Accidental release measures

Personal precautions
Keep in a well-ventilated place. Keep away from sources of ignition. Comply with safety directives (see chapters 7 and 8). Do not inhale vapours.

Environmental precautions
Do not let product enter drains. Notify the respective authorities in accordance with local law in the case of contamination of rivers, lakes or waste water systems.

Methods for cleaning up
Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations. Clean preferably with a detergent; avoid use of solvents.

7. Handling and storage

Safe handling advice
Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation may charge electrostatically: always use grounded leads when transferring from one container to another. Operators should wear antistatic footwear and clothing. No sparking tools should be used. Avoid skin and eye contact. Do not breathe vapours or spray mist. Smoking, eating and drinking should be prohibited in the application area.

Storage
Suitable storage conditions
Observe label precautions. Store between 5 and 25 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Suitable container and packaging materials for safe storage
Always keep in containers made of the same material as the supply container.

8. Exposure controls/personal protection

National occupational exposure limits
Workplace Exposure Standards (WESs) 2002

Chemical Name		
4-methylpentan-2-one	TWA	50 ppm
	STEL	75 ppm
	STEL	307 mg/m3
	TWA	205 mg/m3
n-butyl acetate	TWA	150 ppm
	STEL	200 ppm
	STEL	950 mg/m3
	TWA	713 mg/m3
1,2,4-trimethylbenzene	TWA	25 ppm
	TWA	123 mg/m3
xylene	TWA	50 ppm
	TWA	217 mg/m3
mesitylene	TWA	25 ppm
	TWA	25 ppm
	TWA	123 mg/m3
	TWA	123 mg/m3
ethylbenzene	TWA	100 ppm
	STEL	125 ppm
	STEL	543 mg/m3
	TWA	434 mg/m3
cumene	TWA	25 ppm
	STEL	75 ppm
	STEL	375 mg/m3
	TWA	125 mg/m3

Engineering measures
Provide adequate ventilation. This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

Protective equipment
Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

Respiratory protection
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Eye protection
Wear protective eyewear for protection against solvent spatter.

Hand protection
The breakthrough time of gloves is unknown for the product itself. The glove material given is recommended on basis of the substances in the preparation.

Chemical Name	Glove material	Glove thickness	Break through time
solvent naphtha (petroleum), light arom. (<0,1% benzene)	Viton (R) ®	0.7 mm	30 min
n-butyl acetate	Viton (R) ®	0.7 mm	10 min
	Nitrile rubber	0.33 mm	30 min
xylene	Nitrile rubber	0.33 mm	30 min
	Viton (R) ®	0.7 mm	480 min
2-butoxyethyl acetate	Viton (R) ®	0.7 mm	480 m
	Nitrile rubber	0.33 mm	480 m

The protective glove should be checked in each case for their work specific suitability (e.g. mechanical stability, product compatibility, and anti-static properties). When the intended use is for spray application a nitrile glove of the chemical resistance group 3 (e.g. Dermatril® glove) is to be used. After contamination, the glove has to be changed. If immersing the hands into the product is not avoidable (e.g. maintenance work) a butyl or fluorocarbon rubber glove should be used. When skin exposure may occur to materials specified in section 3 of this SDS, advice should be sought from the glove supplier as to appropriate type to use with this product and the permeation breakthrough times. Care should be taken when working with sharp edged articles as these can easily damage the gloves and make them ineffective. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. Damaged gloves or those showing signs of wear should be replaced immediately.

Skin and body protection
Wear suitable protective clothing. Personnel should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber.

Hygiene measures
Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use organic solvents!

9. Physical and chemical properties

Appearance

Form : liquid Colour: clear Odor Threshold : no data available

pH	No data available.	
Freezing point	Not applicable.	
Boiling point	114 °C	
Flash point	35 °C	
Evapouration rate	Slower than Ether	
Flammability		
Upper explosion limit	10.3 %	
Lower explosion limit	0.9 %	
Vapour pressure	8.8 hPa	
Solubility(ies)	appreciable	
Vapour density	no data available	
Density	0.91 g/cm^3	DIN 53217/ISO 2811
Partition coefficient: n-octanol/water	no data available	
Ignition temperature	272 °C	DIN 51794
Decomposition temperature		
Viscosity (23 °C)	<20 s	ISO 2431-1993 6 mm

10. Stability and reactivity

Stability
Stable

Hazardous polymerisation
Will not occur.

Conditions to avoid
Stable under recommended storage and handling conditions (see section 7).

Materials to avoid
Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Hazardous decomposition products
When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

11. Toxicological information

Information on likely routes of exposure

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Delayed and immediate effects and also chronic effects from short and long term exposure:

Acute oral toxicity
not hazardous

Acute dermal toxicity
not hazardous

Acute inhalation toxicity

4-methylpentan-2-one	Category 4
1,2,4-trimethylbenzene	Category 4
xylene	Category 4
2-butoxyethyl acetate	Category 4
ethylbenzene	Category 4

% of unknown composition 0 %

Skin corrosion/irritation

4-methylpentan-2-one	Category 3
solvent naphtha (petroleum), light arom. (<0,1% benzene)	Category 3
n-butyl acetate	Category 3
1,2,4-trimethylbenzene	Category 2

xylene	Category 2
mesitylene	Category 3
ethylbenzene	Category 3

Serious eye damage/eye irritation

4-methylpentan-2-one	Category 2A
1,2,4-trimethylbenzene	Category 2A
2-methoxy-1-methylethyl acetate	Category 2A
xylene	Category 2A
mesitylene	Category 2A
ethylbenzene	Category 2B

Respiratory sensitisation
Not classified according to GHS criteria

Skin sensitisation
Not classified according to GHS criteria

Germ cell mutagenicity
Not classified according to GHS criteria

Carcinogenicity
Not classified according to GHS criteria

Toxicity for reproduction
Not classified according to GHS criteria

Target Organ Systemic Toxicant - Single exposure
Not classified according to GHS criteria

Target Organ Systemic Toxicant - Repeated exposure
Not classified according to GHS criteria

Aspiration toxicity
Not classified according to GHS criteria

Numerical measures of toxicity (acute toxicity estimation (ATE),etc.)
No information available.

Symptoms related to the physical, chemical and toxicological characteristics
Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Through skin resorbtion, solvents can cause some of the effects described here. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.

12. Ecological information

Product contains environmentally hazardous substances and product is not classified per GHS.

Ecotoxicity effects
There are no data available on the product itself. The product should not be allowed to enter drains or watercourses.

Acute aquatic toxicity

solvent naphtha (petroleum), light arom. (<0,1% benzene)	Category 2
n-butyl acetate	Category 3
1,2,4-trimethylbenzene	Category 2
xylene	Category 3
mesitylene	Category 2
2-butoxyethyl acetate	Category 3
ethylbenzene	Category 2
cumene	Category 2

Chronic aquatic toxicity

solvent naphtha (petroleum), light arom. (<0,1% benzene)	Category 2
1,2,4-trimethylbenzene	Category 2
mesitylene	Category 2
cumene	Category 2

% of unknown composition 0%

Persistence and degradability
No information available.

Bioaccumulation
No information available.

Mobility in soil
No information available.

Other adverse effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods
Dispose of in accordance with local regulations.

Disposal considerations
A disposal process that converts the waste into energy is recommended. If this is not possible the hazardous waste must be disposed of by incineration.

14. Transport information

NZS5433

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Packing group:	III
Hazchem Code:	3Y

IMDG (Sea transport)

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.

Packing group:	III
Marine Pollutant:	no
EmS:	F-E,S-E

ICAO/IATA (Air transport)

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	III

Matters needing attention for transportation
Confirm that there is no breakage, corrosion, or leakage from the container before shipping. Be sure to prevent damage to cargo by loading so as to avoid falling, dropping, or collapse. Ship in appropriate containers with denotation of the content in accordance with the relevant statutes and rules.

15. Regulatory information

National regulatory information

HSNO Approval Code	HSR002662
HSNO Classification	
Acute inhalation toxicity	Category 6.1E
Skin corrosion/irritation	Category 6.3A
Serious eye damage/eye irritation	Category 6.4A
Flammable liquids	Category 3.1C
Acute aquatic toxicity	Category 9.1C
Chronic aquatic toxicity	Category 9.1C

16. Other information

Revision Note

Version	Changes
1.0	

Revision Date: 2015-01-13
B12155723

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.

End of Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking

Product name	TH50 Marine Blending Thinner
Product code	TH50

Intended use of the substance/preparation
Thinner for professionnal use

Supplier	Axalta Coating Systems Australia Pty Limited
Street address	15 - 23 Melbourne Road, Riverstone NSW 2765, Australia
Telephone	
Telefax	

Emergency Information

Emergency telephone number	+(64) 9801 0034 NZ Poisons Information Centre: 0800 764 766 or +(64) 3 479 7248
Importer	Resene Automotive & Light Industrial
Street/Box	4 Te Apunga Place, Mt Wellington, Auckland, NZ
Nat.-Code/Postal code/City	
Telephone	+64 (09) 259 2738
Date of preparation	2015-01-29

2. Hazards identification

Classified as a Dangerous Good according to NZS 5433
Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001

HSNO Classification

Flammable liquids	Category 3.1B
Acute oral toxicity	Category 6.1E
Acute dermal toxicity	Category 6.1E
Acute inhalation toxicity	Category 6.1E
Skin corrosion/irritation	Category 6.3A
Serious eye damage/eye irritation	Category 8.3A
Acute aquatic toxicity	Category 9.1C

Endpoints which are “”not classified“”, “”cannot classified“” and “”not applicable“” are not shown

GHS-Labelling

Hazard symbols	
Signal word	Danger
Hazard statements	Highly flammable liquid and vapour. Harmful to aquatic life. Causes skin irritation. Causes serious eye damage. May be harmful if swallowed, in contact with skin or if inhaled.
Precautionary statements	Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Immediately call a POISON CENTER or doctor/ physician.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Other hazards which do not result in classification
None known.

3. Composition/information on ingredients

Pure substance/mixture
Mixture

CAS-No.	Chemical Name	Concentration	GHS Hazardous
123-86-4	n-butyl acetate	10 - 20%	√
108-94-1	cyclohexanone	10 - 20%	√
141-78-6	ethyl acetate	10 - 20%	√
108-65-6	2-methoxy-1-methylethyl acetate	10 - 20%	√
1330-20-7	xylene	10 - 20%	√
628-63-7	pentyl acetate	3 - 5%	√
624-41-9	2-methylbutyl acetate	1 - 3%	√
100-41-4	ethylbenzene	1 - 3%	√
95-63-6	1,2,4-trimethylbenzene	0.3 - 1.0%	√

Non-regulated ingredients 10 - 20%

4. First aid measures

Eye contact
Remove contact lenses. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Seek medical advice.

Skin contact
Do NOT use solvents or thinners. Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. If skin irritation persists, call a physician.

Inhalation
Avoid inhalation of vapour or mist. Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

Ingestion
If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting. Keep at rest.

Most Important Symptoms/effects, acute and delayed

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Notes to physician
No data available on the product. See section 3 and 11 for hazardous ingredients found in the product.

5. Firefighting measures

Suitable extinguishing media
Universal aqueous film-forming foam, Carbon dioxide (CO2), Dry chemical, Water spray.

Extinguishing media which shall not be used for safety reasons
High volume water jet

Specific hazards
Flammable liquid. Vapours may form explosive mixtures with air. Remove all sources of ignition. Solvent vapours are heavier than air and may spread along floors. Do not allow run-off from fire fighting to enter drains or water courses. Never use pressure to empty container: container is not a pressure vessel. Always keep in containers of same material as the original one.

Special Protective Equipment and Fire Fighting Procedures
Wear as appropriate: Full protective flameproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. In the event of fire, cool tanks with water spray.

6. Accidental release measures

Personal precautions
Keep in a well-ventilated place. Keep away from sources of ignition. Comply with safety directives (see chapters 7 and 8). Do not inhale vapours.

Environmental precautions
Do not let product enter drains. Notify the respective authorities in accordance with local law in the case of contamination of rivers, lakes or waste water systems.

Methods for cleaning up
Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations. Clean preferably with a detergent; avoid use of solvents.

7. Handling and storage

Safe handling advice
Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation may charge electrostatically: always use grounded leads when transferring from one container to another. Operators should wear antistatic footwear and clothing. No sparking tools should be used. Avoid skin and eye contact. Do not breathe vapours or spray mist. Smoking, eating and drinking should be prohibited in the application area.

Storage
Suitable storage conditions
Observe label precautions. Store between 5 and 25 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Suitable container and packaging materials for safe storage
Always keep in containers made of the same material as the supply container.

8. Exposure controls/personal protection

National occupational exposure limits
Workplace Exposure Standards (WESs) 2002

Chemical Name		
n-butyl acetate	TWA	150 ppm
	STEL	200 ppm
	STEL	950 mg/m3
	TWA	713 mg/m3
cyclohexanone	TWA	25 ppm
	TWA	100 mg/m3
ethyl acetate	TWA	200 ppm
	TWA	720 mg/m3
xylene	TWA	50 ppm
	TWA	217 mg/m3
pentyl acetate	TWA	100 ppm
	TWA	532 mg/m3
ethylbenzene	TWA	100 ppm
	STEL	125 ppm
	STEL	543 mg/m3
	TWA	434 mg/m3
1,2,4-trimethylbenzene	TWA	25 ppm
	TWA	123 mg/m3

Engineering measures
Provide adequate ventilation. This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

Protective equipment
Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

Respiratory protection
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Eye protection
Wear protective eyewear for protection against solvent spatter.

Hand protection
The breakthrough time of gloves is unknown for the product itself. The glove material given is recommended on basis of the substances in the preparation.

Chemical Name	Glove material	Glove thickness	Break through time
n-butyl acetate	Viton (R) ®	0.7 mm	10 min

Chemical Name	Glove material	Glove thickness	Break through time
	Nitrile rubber	0.33 mm	30 min
ethyl acetate	Nitrile rubber	0.33 mm	10 min
	Viton (R) ®	0.7 mm	480 min
xylene	Nitrile rubber	0.33 mm	30 min
	Viton (R) ®	0.7 mm	480 min

The protective glove should be checked in each case for their work specific suitability (e.g. mechanical stability, product compatibility, and anti-static properties). When the intended use is for spray application a nitrile glove of the chemical resistance group 3 (e.g. Dermatril® glove) is to be used. After contamination, the glove has to be changed. If immersing the hands into the product is not avoidable (e.g. maintenance work) a butyl or fluorocarbon rubber glove should be used. When skin exposure may occur to materials specified in section 3 of this SDS, advice should be sought from the glove supplier as to appropriate type to use with this product and the permeation breakthrough times. Care should be taken when working with sharp edged articles as these can easily damage the gloves and make them ineffective. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. Damaged gloves or those showing signs of wear should be replaced immediately.

Skin and body protection
Wear suitable protective clothing. Personnel should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber.

Hygiene measures
Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use organic solvents!

9. Physical and chemical properties

Appearance

Form : liquid Colour: clear Odor Threshold : no data available

pH	No data available.	
Freezing point	Not applicable.	
Boiling point	77 °C	
Flash point	20 °C	DIN 53213/ISO 1523
Evapouration rate	Slower than Ether	
Flammability		
Upper explosion limit	11 %	
Lower explosion limit	1 %	
Vapour pressure	20.9 hPa	
Solubility(ies)	appreciable	
Vapour density	no data available	
Density	0.93 g/cm^3	DIN 53217/ISO 2811
Partition coefficient: n-octanol/water	no data available	
Ignition temperature	272 °C	DIN 51794
Decomposition temperature		
Viscosity (23 °C)	<20 s	ISO 2431-1993 6 mm

10. Stability and reactivity

Stability
Stable

Hazardous polymerisation
Will not occur.

Conditions to avoid
Stable under recommended storage and handling conditions (see section 7).

Materials to avoid
Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Hazardous decomposition products
When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

11. Toxicological information

Information on likely routes of exposure

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Delayed and immediate effects and also chronic effects from short and long term exposure:

Acute oral toxicity

cyclohexanone	Category 4
xylene	Category 5
ethylbenzene	Category 5
1,2,4-trimethylbenzene	Category 5

Acute dermal toxicity

cyclohexanone	Category 3
xylene	Category 4

Acute inhalation toxicity

cyclohexanone	Category 4
xylene	Category 4
ethylbenzene	Category 4
1,2,4-trimethylbenzene	Category 4

% of unknown composition 2.1 %

Skin corrosion/irritation

n-butyl acetate	Category 3
cyclohexanone	Category 1C
ethyl acetate	Category 3
xylene	Category 2
pentyl acetate	Category 3
2-methylbutyl acetate	Category 3
ethylbenzene	Category 3
1,2,4-trimethylbenzene	Category 2

Serious eye damage/eye irritation

cyclohexanone	Category 1
ethyl acetate	Category 2A
2-methoxy-1-methylethyl acetate	Category 2A
xylene	Category 2A
pentyl acetate	Category 2A
ethylbenzene	Category 2B
1,2,4-trimethylbenzene	Category 2A

Respiratory sensitisation
Not classified according to GHS criteria

Skin sensitisation
Not classified according to GHS criteria

Germ cell mutagenicity
Not classified according to GHS criteria

Carcinogenicity
Not classified according to GHS criteria

Toxicity for reproduction
Not classified according to GHS criteria

Target Organ Systemic Toxicant - Single exposure
Not classified according to GHS criteria

Target Organ Systemic Toxicant - Repeated exposure
Not classified according to GHS criteria

Aspiration toxicity
Not classified according to GHS criteria

Numerical measures of toxicity (acute toxicity estimation (ATE),etc.)
No information available.

Symptoms related to the physical, chemical and toxicological characteristics
Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Through skin resorbtion, solvents can cause some of the effects described here. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.

12. Ecological information

Product contains environmentally hazardous substances and product is not classified per GHS.

Ecotoxicity effects
There are no data available on the product itself. The product should not be allowed to enter drains or watercourses.

Acute aquatic toxicity

n-butyl acetate	Category 3
xylene	Category 3
ethylbenzene	Category 2
1,2,4-trimethylbenzene	Category 2

% of unknown composition 2.1%

Persistence and degradability
No information available.

Bioaccumulation
No information available.

Mobility in soil
No information available.

Other adverse effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods
Dispose of in accordance with local regulations.

Disposal considerations
A disposal process that converts the waste into energy is recommended. If this is not possible the hazardous waste must be disposed of by incineration.

14. Transport information

NZS5433

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Packing group:	II
Hazchem Code:	3YE

IMDG (Sea transport)

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	II
Marine Pollutant:	no
EmS:	F-E,S-E

ICAO/IATA (Air transport)

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	II

Matters needing attention for transportation
Confirm that there is no breakage, corrosion, or leakage from the container before shipping. Be sure to prevent damage to cargo by loading so as to avoid falling, dropping, or collapse. Ship in appropriate containers with denotation of the content in accordance with the relevant statutes and rules.

15. Regulatory information

National regulatory information

HSNO Approval Code	HSR002662
HSNO Control A	This product must be under the control of an approved handler during use.
HSNO Classification	
Acute oral toxicity	Category 6.1E
Acute dermal toxicity	Category 6.1E
Acute inhalation toxicity	Category 6.1E
Skin corrosion/irritation	Category 6.3A
Serious eye damage/eye irritation	Category 8.3A
Flammable liquids	Category 3.1B
Acute aquatic toxicity	Category 9.1C

16. Other information

Revision Note

Version	Changes
1.0	
Revision Date:	2014-12-05
B12372236	

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.

End of Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking

Product name	TH61 Marine Thinner
Product code	TH61

Intended use of the substance/preparation
Thinner for professionnal use

Supplier	Axalta Coating Systems Australia Pty Limited
Street address	15 - 23 Melbourne Road, Riverstone NSW 2765, Australia
Telephone	
Telefax	

Emergency Information

Emergency telephone number	+(64) 9801 0034 NZ Poisons Information Centre: 0800 764 766 or +(64) 3 479 7248
Importer	Resene Automotive & Light Industrial
Street/Box	4 Te Apunga Place, Mt Wellington, Auckland, NZ
Nat.-Code/Postal code/City	
Telephone	+64 (09) 259 2738
Date of preparation	2015-01-29

2. Hazards identification

Classified as a Dangerous Good according to NZS 5433
Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001

HSNO Classification

Flammable liquids	Category 3.1C
Acute oral toxicity	Category 6.1D
Acute dermal toxicity	Category 6.1E
Acute inhalation toxicity	Category 6.1E
Skin corrosion/irritation	Category 6.3A
Serious eye damage/eye irritation	Category 6.4A
Aspiration toxicity	Category 6.1E
Acute aquatic toxicity	Category 9.1C
Chronic aquatic toxicity	Category 9.1C

Endpoints which are “”not classified“”, “”cannot classified“” and “”not applicable“” are not shown

GHS-Labelling

Hazard symbols

Signal word: Danger

Hazard statements:
Flammable liquid and vapour.
Harmful if swallowed.
May be harmful in contact with skin.
May be harmful if inhaled.
Causes skin irritation.
Causes serious eye irritation.
May be fatal if swallowed and enters airways.
Harmful to aquatic life.
Harmful to aquatic life with long lasting effects.

Precautionary statements	Avoid release to the environment. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Wear protective gloves/protective clothing/eye protection/face protection. Do NOT induce vomiting. If eye irritation persists: Get medical advice/ attention. IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Store in a well-ventilated place. Keep cool.

Other hazards which do not result in classification
None known.

3. Composition/information on ingredients

Pure substance/mixture
Mixture

CAS-No.	Chemical Name	Concentration	GHS Hazardous
112-07-2	2-butoxyethyl acetate	20 - 30%	√
98516-30-4	ethoxypropyl acetate	20 - 30%	√
64742-95-6	solvent naphtha (petroleum), light arom. (<0,1% benzene)	10 - 20%	√
1330-20-7	xylene	10 - 20%	√
95-63-6	1,2,4-trimethylbenzene	5 - 10%	√
141-78-6	ethyl acetate	5 - 10%	√
110-19-0	isobutyl acetate	5 - 10%	√
108-67-8	mesitylene	1 - 3%	√
100-41-4	ethylbenzene	1 - 3%	√
98-82-8	cumene	0.3 - 1.0%	√
111-76-2	2-butoxyethanol	0.1 - 0.3%	√

Non-regulated ingredients 1 - 5%

4. First aid measures

Eye contact
Remove contact lenses. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Seek medical advice.

Skin contact
Do NOT use solvents or thinners. Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. If skin irritation persists, call a physician.

Inhalation
Avoid inhalation of vapour or mist. Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

Ingestion
If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting. Keep at rest.

Most Important Symptoms/effects, acute and delayed

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Notes to physician
No data available on the product. See section 3 and 11 for hazardous ingredients found in the product.

5. Firefighting measures

Suitable extinguishing media
Universal aqueous film-forming foam, Carbon dioxide (CO2), Dry chemical, Water spray.

Extinguishing media which shall not be used for safety reasons
High volume water jet

Specific hazards
Flammable liquid. Vapours may form explosive mixtures with air. Remove all sources of ignition. Solvent vapours are heavier than air and may spread along floors. Do not allow run-off from fire fighting to enter drains or water courses. Never use pressure to empty container: container is not a pressure vessel. Always keep in containers of same material as the original one.

Special Protective Equipment and Fire Fighting Procedures
Wear as appropriate: Full protective flameproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. In the event of fire, cool tanks with water spray.

6. Accidental release measures

Personal precautions
Keep in a well-ventilated place. Keep away from sources of ignition. Comply with safety directives (see chapters 7 and 8). Do not inhale vapours.

Environmental precautions
Do not let product enter drains. Notify the respective authorities in accordance with local law in the case of contamination of rivers, lakes or waste water systems.

Methods for cleaning up
Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations. Clean preferably with a detergent; avoid use of solvents.

7. Handling and storage

Safe handling advice
Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation may charge electrostatically: always use grounded leads when transferring from one container to another. Operators should wear antistatic footwear and clothing. No sparking tools should be used. Avoid skin and eye contact. Do not breathe vapours or spray mist. Smoking, eating and drinking should be prohibited in the application area.

Storage

Suitable storage conditions
Observe label precautions. Store between 5 and 25 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Suitable container and packaging materials for safe storage
Always keep in containers made of the same material as the supply container.

8. Exposure controls/personal protection

National occupational exposure limits
Workplace Exposure Standards (WESs) 2002

Chemical Name		
xylene	TWA	50 ppm
	TWA	217 mg/m3
1,2,4-trimethylbenzene	TWA	25 ppm
	TWA	123 mg/m3
ethyl acetate	TWA	200 ppm
	TWA	720 mg/m3
isobutyl acetate	TWA	150 ppm
	TWA	713 mg/m3
mesitylene	TWA	25 ppm
	TWA	25 ppm
	TWA	123 mg/m3
	TWA	123 mg/m3
ethylbenzene	TWA	100 ppm
	STEL	125 ppm
	STEL	543 mg/m3
	TWA	434 mg/m3
cumene	TWA	25 ppm
	STEL	75 ppm
	STEL	375 mg/m3
	TWA	125 mg/m3
2-butoxyethanol	TWA	25 ppm
	TWA	121 mg/m3

Engineering measures
Provide adequate ventilation. This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

Protective equipment
Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

Respiratory protection
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Eye protection
Wear protective eyewear for protection against solvent spatter.

Hand protection
The breakthrough time of gloves is unknown for the product itself. The glove material given is recommended on basis of the substances in the preparation.

Chemical Name	Glove material	Glove thickness	Break through time
2-butoxyethyl acetate	Viton (R) ®	0.7 mm	480 m
	Nitrile rubber	0.33 mm	480 m
solvent naphtha (petroleum), light arom. (<0,1% benzene)	Viton (R) ®	0.7 mm	30 min
xylene	Nitrile rubber	0.33 mm	30 min
	Viton (R) ®	0.7 mm	480 min
ethyl acetate	Nitrile rubber	0.33 mm	10 min
	Viton (R) ®	0.7 mm	480 min
2-butoxyethanol	Viton (R) ®	0.7 mm	480 min
	Nitrile rubber	0.33 mm	480 min

The protective glove should be checked in each case for their work specific suitability (e.g. mechanical stability, product compatibility, and anti-static properties). When the intended use is for spray application a nitrile glove of the chemical resistance group 3 (e.g. Dermatril® glove) is to be used. After contamination, the glove has to be changed. If immersing the hands into the product is not avoidable (e.g. maintenance work) a butyl or fluorocarbon rubber glove should be used. When skin exposure may occur to materials specified in section 3 of this SDS, advice should be sought from the glove supplier as to appropriate type to use with this product and the permeation breakthrough times. Care should be taken when working with sharp edged articles as these can easily damage the gloves and make them ineffective. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. Damaged gloves or those showing signs of wear should be replaced immediately.

Skin and body protection
Wear suitable protective clothing. Personnel should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber.

Hygiene measures
Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use organic solvents!

9. Physical and chemical properties

Appearance

Form : liquid Colour: clear Odour: Characteristic Solvent Odor Odor Threshold : no data available

pH	not applicable	
Freezing point	Not applicable.	
Boiling point	77 °C	
Flash point	27 °C	DIN 53213/ISO 1523
Evapouration rate	Slower than Ether	
Flammability		
Upper explosion limit	11 %	

Lower explosion limit	0.9 %	
Vapour pressure	11.8 hPa	
Solubility(ies)	moderate	
Vapour density	no data available	
Density	0.91 g/cm^3	DIN 53217/ISO 2811
Partition coefficient: n-octanol/water	no data available	
Ignition temperature	325 °C	DIN 51794
Decomposition temperature		
Viscosity (23 °C)	<20 s	ISO 2431-1993 6 mm

10. Stability and reactivity

Stability
Stable

Hazardous polymerisation
Will not occur.

Conditions to avoid
Stable under recommended storage and handling conditions (see section 7).

Materials to avoid
Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Hazardous decomposition products
When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

11. Toxicological information

Information on likely routes of exposure

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Delayed and immediate effects and also chronic effects from short and long term exposure:

Acute oral toxicity

2-butoxyethyl acetate	Category 4
xylene	Category 5
1,2,4-trimethylbenzene	Category 5
isobutyl acetate	Category 5
ethylbenzene	Category 5
cumene	Category 5
2-butoxyethanol	Category 4

Acute dermal toxicity

2-butoxyethyl acetate	Category 4
xylene	Category 4
2-butoxyethanol	Category 3

Acute inhalation toxicity

2-butoxyethyl acetate	Category 4
xylene	Category 4
1,2,4-trimethylbenzene	Category 4
ethylbenzene	Category 4
2-butoxyethanol	Category 4

% of unknown composition 0 %

Skin corrosion/irritation

solvent naphtha (petroleum), light arom. (<0,1% benzene)	Category 3
xylene	Category 2
1,2,4-trimethylbenzene	Category 2
ethyl acetate	Category 3
isobutyl acetate	Category 2
mesitylene	Category 3
ethylbenzene	Category 3
2-butoxyethanol	Category 2

Serious eye damage/eye irritation

xylene	Category 2A
1,2,4-trimethylbenzene	Category 2A
ethyl acetate	Category 2A
isobutyl acetate	Category 2B
mesitylene	Category 2A
ethylbenzene	Category 2B
2-butoxyethanol	Category 2A

Respiratory sensitisation
Not classified according to GHS criteria

Skin sensitisation
Not classified according to GHS criteria

Germ cell mutagenicity
Not classified according to GHS criteria

Carcinogenicity
Not classified according to GHS criteria

Toxicity for reproduction
Not classified according to GHS criteria

Target Organ Systemic Toxicant - Single exposure
Not classified according to GHS criteria

Target Organ Systemic Toxicant - Repeated exposure
Not classified according to GHS criteria

Aspiration toxicity

solvent naphtha (petroleum), light arom. (<0,1% benzene)	Category 1
xylene	Category 2
1,2,4-trimethylbenzene	Category 1
isobutyl acetate	Category 1
mesitylene	Category 1
ethylbenzene	Category 2
cumene	Category 1

Numerical measures of toxicity (acute toxicity estimation (ATE),etc.)
No information available.

Symptoms related to the physical, chemical and toxicological characteristics
Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Through skin resorbtion, solvents can cause some of the effects described here. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.

12. Ecological information

Product contains environmentally hazardous substances and product is not classified per GHS.

Ecotoxicity effects
There are no data available on the product itself. The product should not be allowed to enter drains or watercourses.

Acute aquatic toxicity

2-butoxyethyl acetate	Category 3
solvent naphtha (petroleum), light arom. (<0,1% benzene)	Category 2
xylene	Category 3
1,2,4-trimethylbenzene	Category 2
isobutyl acetate	Category 3
mesitylene	Category 2
ethylbenzene	Category 2
cumene	Category 2

Chronic aquatic toxicity

solvent naphtha (petroleum), light arom. (<0,1% benzene)	Category 2
1,2,4-trimethylbenzene	Category 2
mesitylene	Category 2
cumene	Category 2

% of unknown composition 22.5%

Persistence and degradability
No information available.

Bioaccumulation
No information available.

Mobility in soil
No information available.

Other adverse effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods
Dispose of in accordance with local regulations.

Disposal considerations
A disposal process that converts the waste into energy is recommended. If this is not possible the hazardous waste must be disposed of by incineration.

14. Transport information

NZS5433

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Packing group:	III
Hazchem Code:	3Y

IMDG (Sea transport)

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	III
Marine Pollutant:	no
EmS:	F-E,S-E

ICAO/IATA (Air transport)

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	III

Matters needing attention for transportation

Confirm that there is no breakage, corrosion, or leakage from the container before shipping. Be sure to prevent damage to cargo by loading so as to avoid falling, dropping, or collapse. Ship in appropriate containers with denotation of the content in accordance with the relevant statutes and rules.

15. Regulatory information

National regulatory information

HSNO Approval Code	HSR002662
HSNO Classification	
Acute oral toxicity	Category 6.1D
Acute dermal toxicity	Category 6.1E
Acute inhalation toxicity	Category 6.1E
Skin corrosion/irritation	Category 6.3A
Serious eye damage/eye irritation	Category 6.4A
Aspiration toxicity	Category 6.1E
Flammable liquids	Category 3.1C
Acute aquatic toxicity	Category 9.1C
Chronic aquatic toxicity	Category 9.1C

16. Other information

Revision Note

Version	Changes
1.0	

Revision Date: 2015-01-29
B11938931

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or

in any process or if the material is altered or processed, unless specified in the text.

End of Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking

Product name	TH80 Marine Finishes Thinner
Product code	TH80

Intended use of the substance/preparation
Thinner for professionnal use

Supplier	Axalta Coating Systems Australia Pty Limited
Street address	15 - 23 Melbourne Road, Riverstone NSW 2765, Australia
Telephone	
Telefax	

Emergency Information

Emergency telephone number	+(64) 9801 0034 NZ Poisons Information Centre: 0800 764 766 or +(64) 3 479 7248
Importer	Resene Automotive & Light Industrial
Street/Box	4 Te Apunga Place, Mt Wellington, Auckland, NZ
Nat.-Code/Postal code/City	
Telephone	+64 (09) 259 2738
Date of preparation	2015-01-29

2. Hazards identification

Classified as a Dangerous Good according to NZS 5433
Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001

HSNO Classification

Flammable liquids	Category 3.1C
Acute dermal toxicity	Category 6.1E
Acute inhalation toxicity	Category 6.1D
Skin corrosion/irritation	Category 6.3A
Serious eye damage/eye irritation	Category 8.3A
Toxicity for reproduction	Category 6.8B
Acute aquatic toxicity	Category 9.1C
Chronic aquatic toxicity	Category 9.1C
Ecotoxic to terrestrial invertebrates	Category 9.4C

Endpoints which are “”not classified“”, “”cannot classified“” and “”not applicable“” are not shown

GHS-Labelling

Hazard symbols	
Signal word	Danger
Hazard statements	Flammable liquid and vapour. May be harmful in contact with skin. Harmful if inhaled. Causes skin irritation. Causes serious eye damage. Suspected of damaging fertility or the unborn child. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.
Precautionary statements	Avoid release to the environment. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Obtain special instructions before use.
Wear protective gloves/protective clothing/eye protection/face protection.
Avoid breathing dust/ vapours/ spray.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF exposed or concerned: Get medical advice/ attention.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER or doctor/ physician.
Store in a well-ventilated place. Keep cool.

Other hazards which do not result in classification
None known.

3. Composition/information on ingredients

Pure substance/mixture
Mixture

CAS-No.	Chemical Name	Concentration	GHS Hazardous
1330-20-7	xylene	40 - 50%	√
78-83-1	iso-butanol	30 - 40%	√
100-41-4	ethylbenzene	10 - 20%	√
108-65-6	2-methoxy-1-methylethyl acetate	3 - 5%	√
95-63-6	1,2,4-trimethylbenzene	1 - 3%	√
64742-95-6	solvent naphtha (petroleum), light arom. (<0,1% benzene)	1 - 3%	√
108-67-8	mesitylene	0.1 - 0.3%	√
71-36-3	n-butanol	0.1 - 0.3%	√
108-88-3	toluene	0.1 - 0.3%	√

Non-regulated ingredients 0.1 - 1.0%

4. First aid measures

Eye contact
Remove contact lenses. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Seek medical advice.

Skin contact
Do NOT use solvents or thinners. Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. If skin irritation persists, call a physician.

Inhalation
Avoid inhalation of vapour or mist. Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

Ingestion
If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting. Keep at rest.

Most Important Symptoms/effects, acute and delayed

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Notes to physician
No data available on the product. See section 3 and 11 for hazardous ingredients found in the product.

5. Firefighting measures

Suitable extinguishing media
Universal aqueous film-forming foam, Carbon dioxide (CO2), Dry chemical, Water spray.

Extinguishing media which shall not be used for safety reasons
High volume water jet

Specific hazards
Flammable liquid. Vapours may form explosive mixtures with air. Remove all sources of ignition. Solvent vapours are heavier than air and may spread along floors. Do not allow run-off from fire fighting to enter drains or water courses. Never use pressure to empty container: container is not a pressure vessel. Always keep in containers of same material as the original one.

Special Protective Equipment and Fire Fighting Procedures
Wear as appropriate: Full protective flameproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. In the event of fire, cool tanks with water spray.

6. Accidental release measures

Personal precautions
Keep in a well-ventilated place. Keep away from sources of ignition. Comply with safety directives (see chapters 7 and 8). Do not inhale vapours.

Environmental precautions
Do not let product enter drains. Notify the respective authorities in accordance with local law in the case of contamination of rivers, lakes or waste water systems.

Methods for cleaning up
Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations. Clean preferably with a detergent; avoid use of solvents.

7. Handling and storage

Safe handling advice
Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation may charge electrostatically: always use grounded leads when transferring from one container to another. Operators should wear antistatic footwear and clothing. No sparking tools should be used. Avoid skin and eye contact. Do not breathe vapours or spray mist. Smoking, eating and drinking should be prohibited in the application area.

Storage

Suitable storage conditions
Observe label precautions. Store between 5 and 25 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Suitable container and packaging materials for safe storage
Always keep in containers made of the same material as the supply container.

8. Exposure controls/personal protection

National occupational exposure limits
Workplace Exposure Standards (WESs) 2002

Chemical Name		
xylene	TWA	50 ppm
	TWA	217 mg/m3
iso-butanol	TWA	50 ppm
	TWA	152 mg/m3
ethylbenzene	TWA	100 ppm
	STEL	125 ppm
	STEL	543 mg/m3
	TWA	434 mg/m3
1,2,4-trimethylbenzene	TWA	25 ppm
	TWA	123 mg/m3
mesitylene	TWA	25 ppm
	TWA	25 ppm
	TWA	123 mg/m3
	TWA	123 mg/m3
n-butanol	CEIL	150 mg/m3
	CEIL	50 ppm
toluene	TWA	50 ppm
	TWA	188 mg/m3

Engineering measures
Provide adequate ventilation. This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

Protective equipment
Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

Respiratory protection
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Eye protection
Wear protective eyewear for protection against solvent spatter.

Hand protection
The breakthrough time of gloves is unknown for the product itself. The glove material given is recommended on basis of the substances in the preparation.

Chemical Name	Glove material	Glove thickness	Break through time
xylene	Nitrile rubber	0.33 mm	30 min
	Viton (R) ®	0.7 mm	480 min
solvent naphtha (petroleum), light arom. (<0,1% benzene)	Viton (R) ®	0.7 mm	30 min
n-butanol	Viton (R) ®	0.7 mm	480 min
	Nitrile rubber	0.33 mm	480 min

The protective glove should be checked in each case for their work specific suitability (e.g. mechanical stability, product compatibility, and anti-static properties). When the intended use is for spray application a nitrile glove of the chemical resistance group 3 (e.g. Dermatril® glove) is to be used. After contamination, the glove has to be changed. If immersing the hands into the product is not avoidable (e.g. maintenance work) a butyl or fluorocarbon rubber glove should be used. When skin exposure may occur to materials specified in section 3 of this SDS, advice should be sought from the glove supplier as to appropriate type to use with this product and the permeation breakthrough times. Care should be taken when working with sharp edged articles as these can easily damage the gloves and make them ineffective. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. Damaged gloves or those showing signs of wear should be replaced immediately.

Skin and body protection
Wear suitable protective clothing. Personnel should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber.

Hygiene measures
Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use organic solvents!

9. Physical and chemical properties

Appearance

Form : liquid Colour: clear Odour: Characteristic Solvent Odor Odor Threshold : no data available

pH	not applicable	
Freezing point	Not applicable.	
Boiling point	106 °C	
Flash point	27 °C	DIN 53213/ISO 1523
Evapouration rate	Slower than Ether	
Flammability		
Upper explosion limit	12.3 %	
Lower explosion limit	1 %	
Vapour pressure	8.5 hPa	
Solubility(ies)	moderate	
Vapour density	no data available	
Density	0.85 g/cm^3	DIN 53217/ISO 2811
Partition coefficient: n-octanol/water	no data available	
Ignition temperature	272 °C	DIN 51794
Decomposition temperature		
Viscosity (23 °C)	<20 s	ISO 2431-1993 6 mm

10. Stability and reactivity

Stability
Stable

Hazardous polymerisation
Will not occur.

Conditions to avoid
Stable under recommended storage and handling conditions (see section 7).

Materials to avoid
Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Hazardous decomposition products
When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

11. Toxicological information

Information on likely routes of exposure

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Delayed and immediate effects and also chronic effects from short and long term exposure:

Acute oral toxicity
not hazardous

Acute dermal toxicity

xylene	Category 4
iso-butanol	Category 5
n-butanol	Category 5

Acute inhalation toxicity

xylene	Category 4
ethylbenzene	Category 4
1,2,4-trimethylbenzene	Category 4
n-butanol	Category 5
toluene	Category 5

% of unknown composition 0 %

Skin corrosion/irritation

xylene	Category 2
iso-butanol	Category 2
ethylbenzene	Category 3

1,2,4-trimethylbenzene	Category 2
solvent naphtha (petroleum), light arom. (<0,1% benzene)	Category 3
mesitylene	Category 3
n-butanol	Category 2
toluene	Category 2

Serious eye damage/eye irritation

xylene	Category 2A
iso-butanol	Category 1
ethylbenzene	Category 2B
2-methoxy-1-methylethyl acetate	Category 2A
1,2,4-trimethylbenzene	Category 2A
mesitylene	Category 2A
n-butanol	Category 1
toluene	Category 2B

Respiratory sensitisation
Not classified according to GHS criteria

Skin sensitisation
Not classified according to GHS criteria

Germ cell mutagenicity
Not classified according to GHS criteria

Carcinogenicity
Not classified according to GHS criteria

Toxicity for reproduction

toluene Category 2

Target Organ Systemic Toxicant - Single exposure
Not classified according to GHS criteria

Target Organ Systemic Toxicant - Repeated exposure
Not classified according to GHS criteria

Aspiration toxicity
Not classified according to GHS criteria

Numerical measures of toxicity (acute toxicity estimation (ATE),etc.)
No information available.

Symptoms related to the physical, chemical and toxicological characteristics
Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Through skin resorbtion, solvents can cause some of the effects described here. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.

12. Ecological information

Product contains environmentally hazardous substances and product is not classified per GHS.

Ecotoxicity effects
There are no data available on the product itself. The product should not be allowed to enter drains or watercourses.

Acute aquatic toxicity

xylene	Category 3
ethylbenzene	Category 2
1,2,4-trimethylbenzene	Category 2
solvent naphtha (petroleum), light arom. (<0,1% benzene)	Category 2
mesitylene	Category 2
toluene	Category 2

Chronic aquatic toxicity

1,2,4-trimethylbenzene	Category 2
solvent naphtha (petroleum), light arom. (<0,1% benzene)	Category 2
mesitylene	Category 2

Ecotoxic to terrestrial invertebrates

xylene	Category 9.4C

% of unknown composition 0%

Persistence and degradability
No information available.

Bioaccumulation
No information available.

Mobility in soil
No information available.

Other adverse effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods
Dispose of in accordance with local regulations.

Disposal considerations
A disposal process that converts the waste into energy is recommended. If this is not possible the hazardous waste must be disposed of by incineration.

14. Transport information

NZS5433

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Packing group:	III
Hazchem Code:	3Y

IMDG (Sea transport)

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.

Packing group:	III
Marine Pollutant:	no
EmS:	F-E,S-E

ICAO/IATA (Air transport)

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	III

Matters needing attention for transportation

Confirm that there is no breakage, corrosion, or leakage from the container before shipping. Be sure to prevent damage to cargo by loading so as to avoid falling, dropping, or collapse. Ship in appropriate containers with denotation of the content in accordance with the relevant statutes and rules.

15. Regulatory information

National regulatory information

HSNO Approval Code	HSR002662
HSNO Classification	
Acute dermal toxicity	Category 6.1E
Acute inhalation toxicity	Category 6.1D
Skin corrosion/irritation	Category 6.3A
Serious eye damage/eye irritation	Category 8.3A
Toxicity for reproduction	Category 6.8B
Flammable liquids	Category 3.1C
Acute aquatic toxicity	Category 9.1C
Chronic aquatic toxicity	Category 9.1C
Ecotoxic to terrestrial invertebrates	Category 9.4C

16. Other information

Revision Note

Version	Changes
1.0	

Revision Date: 2014-12-05
B11934871

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.

End of Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking

Product name	TH91 Marine Basecoat Thinner
Product code	TH91

Intended use of the substance/preparation
Thinner for professionnal use

Supplier	Axalta Coating Systems Australia Pty Limited
Street address	15 - 23 Melbourne Road, Riverstone NSW 2765, Australia
Telephone	
Telefax	

Emergency Information

Emergency telephone number	+(64) 9801 0034 NZ Poisons Information Centre: 0800 764 766 or +(64) 3 479 7248
Importer	Resene Automotive & Light Industrial
Street/Box	4 Te Apunga Place, Mt Wellington, Auckland, NZ
Nat.-Code/Postal code/City	
Telephone	+64 (09) 259 2738
Date of preparation	2015-01-29

2. Hazards identification

Classified as a Dangerous Good according to NZS 5433
Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001

HSNO Classification

Flammable liquids	Category 3.1C
Skin corrosion/irritation	Category 6.3A
Aspiration toxicity	Category 6.1E
Acute aquatic toxicity	Category 9.1C
Chronic aquatic toxicity	Category 9.1C

Endpoints which are “”not classified“”, “”cannot classified“” and “”not applicable“” are not shown

GHS-Labelling

Hazard symbols	
Signal word	Danger
Hazard statements	May be fatal if swallowed and enters airways. Flammable liquid and vapour. Harmful to aquatic life. Harmful to aquatic life with long lasting effects. Causes skin irritation.
Precautionary statements	IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Do NOT induce vomiting. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Store in a well-ventilated place. Keep cool. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

Other hazards which do not result in classification
None known.

3. Composition/information on ingredients

Pure substance/mixture
Mixture

CAS-No.	Chemical Name	Concentration	GHS Hazardous
110-19-0	isobutyl acetate	20 - 30%	√
64742-95-6	solvent naphtha (petroleum), light arom. (<0,1% benzene)	10 - 20%	√
108-83-8	2,6-dimethylheptan-4-one	10 - 20%	√
763-69-9	ethyl 3-ethoxypropionate	10 - 20%	√
95-63-6	1,2,4-trimethylbenzene	5 - 10%	√
1330-20-7	xylene	5 - 10%	√
108-67-8	mesitylene	1 - 3%	√
100-41-4	ethylbenzene	1 - 3%	√
98-82-8	cumene	0.3 - 1.0%	√
78-83-1	iso-butanol	0.1 - 0.3%	√
123-86-4	n-butyl acetate	0.0 - 0.1%	√

Non-regulated ingredients 1 - 5%

4. First aid measures

Eye contact
Remove contact lenses. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Seek medical advice.

Skin contact
Do NOT use solvents or thinners. Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. If skin irritation persists, call a physician.

Inhalation
Avoid inhalation of vapour or mist. Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

Ingestion
If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting. Keep at rest.

Most Important Symptoms/effects, acute and delayed

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Notes to physician
No data available on the product. See section 3 and 11 for hazardous ingredients found in the product.

5. Firefighting measures

Suitable extinguishing media
Universal aqueous film-forming foam, Carbon dioxide (CO2), Dry chemical, Water spray.

Extinguishing media which shall not be used for safety reasons
High volume water jet

Specific hazards
Flammable liquid. Vapours may form explosive mixtures with air. Remove all sources of ignition. Solvent vapours are heavier than air and may spread along floors. Do not allow run-off from fire fighting to enter drains or water courses. Never use pressure to empty container: container is not a pressure vessel. Always keep in containers of same material as the original one.

Special Protective Equipment and Fire Fighting Procedures
Wear as appropriate: Full protective flameproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. In the event of fire, cool tanks with water spray.

6. Accidental release measures

Personal precautions
Keep in a well-ventilated place. Keep away from sources of ignition. Comply with safety directives (see chapters 7 and 8). Do not inhale vapours.

Environmental precautions
Do not let product enter drains. Notify the respective authorities in accordance with local law in the case of contamination of rivers, lakes or waste water systems.

Methods for cleaning up
Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations. Clean preferably with a detergent; avoid use of solvents.

7. Handling and storage

Safe handling advice
Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation may charge electrostatically: always use grounded leads when transferring from one container to another. Operators should wear antistatic footwear and clothing. No sparking tools should be used. Avoid skin and eye contact. Do not breathe vapours or spray mist. Smoking, eating and drinking should be prohibited in the application area.

Storage
Suitable storage conditions
Observe label precautions. Store between 5 and 25 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Suitable container and packaging materials for safe storage
Always keep in containers made of the same material as the supply container.

8. Exposure controls/personal protection

National occupational exposure limits
Workplace Exposure Standards (WESs) 2002

Chemical Name		
isobutyl acetate	TWA	150 ppm
	TWA	713 mg/m3
2,6-dimethylheptan-4-one	TWA	25 ppm
	TWA	145 mg/m3
1,2,4-trimethylbenzene	TWA	25 ppm
	TWA	123 mg/m3
xylene	TWA	50 ppm
	TWA	217 mg/m3
mesitylene	TWA	25 ppm
	TWA	25 ppm
	TWA	123 mg/m3
	TWA	123 mg/m3
ethylbenzene	TWA	100 ppm
	STEL	125 ppm
	STEL	543 mg/m3
	TWA	434 mg/m3
cumene	TWA	25 ppm
	STEL	75 ppm
	STEL	375 mg/m3
	TWA	125 mg/m3
iso-butanol	TWA	50 ppm
	TWA	152 mg/m3
n-butyl acetate	TWA	150 ppm
	STEL	200 ppm
	STEL	950 mg/m3
	TWA	713 mg/m3

Engineering measures
Provide adequate ventilation. This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

Protective equipment
Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

Respiratory protection
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Eye protection
Wear protective eyewear for protection against solvent spatter.

Hand protection
The breakthrough time of gloves is unknown for the product itself. The glove material given is recommended on basis of the substances in the preparation.

Chemical Name	Glove material	Glove thickness	Break through time
solvent naphtha (petroleum), light arom. (<0,1% benzene)	Viton (R) ®	0.7 mm	30 min
xylene	Nitrile rubber	0.33 mm	30 min
	Viton (R) ®	0.7 mm	480 min
n-butyl acetate	Viton (R) ®	0.7 mm	10 min
	Nitrile rubber	0.33 mm	30 min

The protective glove should be checked in each case for their work specific suitability (e.g. mechanical stability, product compatibility, and anti-static properties). When the intended use is for spray application a nitrile glove of the chemical resistance group 3 (e.g. Dermatril® glove) is to be used. After contamination, the glove has to be changed. If immersing the hands into the product is not avoidable (e.g. maintenance work) a butyl or fluorocarbon rubber glove should be used. When skin exposure may occur to materials specified in section 3 of this SDS, advice should be sought from the glove supplier as to appropriate type to use with this product and the permeation breakthrough times. Care should be taken when working with sharp edged articles as these can easily damage the gloves and make them ineffective. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. Damaged gloves or those showing signs of wear should be replaced immediately.

Skin and body protection
Wear suitable protective clothing. Personnel should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber.

Hygiene measures
Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use organic solvents!

9. Physical and chemical properties

Appearance

Form : liquid Colour: clear Odour: Characteristic Solvent Odor Odor Threshold : no data available

pH	not applicable	
Freezing point	Not applicable.	
Boiling point	117 °C	
Flash point	34 °C	DIN 53213/ISO 1523
Evapouration rate	Slower than Ether	
Flammability		
Upper explosion limit	10.5 %	
Lower explosion limit	0.8 %	
Vapour pressure	7.5 hPa	
Solubility(ies)	moderate	
Vapour density	no data available	
Density	0.87 g/cm^3	DIN 53217/ISO 2811
Partition coefficient: n-octanol/water	no data available	
Ignition temperature	345 °C	DIN 51794
Decomposition temperature		

Viscosity (23 °C)	<20 s	ISO 2431-1993 6 mm

10. Stability and reactivity

Stability
Stable

Hazardous polymerisation
Will not occur.

Conditions to avoid
Stable under recommended storage and handling conditions (see section 7).

Materials to avoid
Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Hazardous decomposition products
When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

11. Toxicological information

Information on likely routes of exposure

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Delayed and immediate effects and also chronic effects from short and long term exposure:

Acute oral toxicity
not hazardous

Acute dermal toxicity
not hazardous

Acute inhalation toxicity
not hazardous

% of unknown composition 0 %

Skin corrosion/irritation

isobutyl acetate	Category 2
solvent naphtha (petroleum), light arom. (<0,1% benzene)	Category 3
2,6-dimethylheptan-4-one	Category 3
ethyl 3-ethoxypropionate	Category 3
1,2,4-trimethylbenzene	Category 2
xylene	Category 2
mesitylene	Category 3
ethylbenzene	Category 3
iso-butanol	Category 2
n-butyl acetate	Category 3

Serious eye damage/eye irritation
Not classified according to GHS criteria

Respiratory sensitisation
Not classified according to GHS criteria

Skin sensitisation
Not classified according to GHS criteria

Germ cell mutagenicity
Not classified according to GHS criteria

Carcinogenicity
Not classified according to GHS criteria

Toxicity for reproduction
Not classified according to GHS criteria

Target Organ Systemic Toxicant - Single exposure
Not classified according to GHS criteria

Target Organ Systemic Toxicant - Repeated exposure
Not classified according to GHS criteria

Aspiration toxicity

isobutyl acetate	Category 1
solvent naphtha (petroleum), light arom. (<0,1% benzene)	Category 1
2,6-dimethylheptan-4-one	Category 2
1,2,4-trimethylbenzene	Category 1
xylene	Category 2
mesitylene	Category 1
ethylbenzene	Category 2
cumene	Category 1
iso-butanol	Category 1

Numerical measures of toxicity (acute toxicity estimation (ATE),etc.)
No information available.

Symptoms related to the physical, chemical and toxicological characteristics
Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Through skin resorbtion, solvents can cause some of the effects described here. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.

12. Ecological information

Product contains environmentally hazardous substances and product is not classified per GHS.

Ecotoxicity effects
There are no data available on the product itself. The product should not be allowed to enter drains or watercourses.

Acute aquatic toxicity

isobutyl acetate	Category 3
solvent naphtha (petroleum), light arom. (<0,1% benzene)	Category 2
ethyl 3-ethoxypropionate	Category 3
1,2,4-trimethylbenzene	Category 2
xylene	Category 3
mesitylene	Category 2

ethylbenzene	Category 2
cumene	Category 2
n-butyl acetate	Category 3

Chronic aquatic toxicity

solvent naphtha (petroleum), light arom. (<0,1% benzene)	Category 2
1,2,4-trimethylbenzene	Category 2
mesitylene	Category 2
cumene	Category 2

% of unknown composition 3.6%

Persistence and degradability
No information available.

Bioaccumulation
No information available.

Mobility in soil
No information available.

Other adverse effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods
Dispose of in accordance with local regulations.

Disposal considerations
A disposal process that converts the waste into energy is recommended. If this is not possible the hazardous waste must be disposed of by incineration.

14. Transport information

NZS5433

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Packing group:	III
Hazchem Code:	3Y

IMDG (Sea transport)

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	III
Marine Pollutant:	no
EmS:	F-E,S-E

ICAO/IATA (Air transport)

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3

Subsidiary Hazard Class:	Not applicable.
Packing group:	III

Matters needing attention for transportation
Confirm that there is no breakage, corrosion, or leakage from the container before shipping. Be sure to prevent damage to cargo by loading so as to avoid falling, dropping, or collapse. Ship in appropriate containers with denotation of the content in accordance with the relevant statutes and rules.

15. Regulatory information

National regulatory information

HSNO Approval Code	HSR002662
HSNO Classification	
Skin corrosion/irritation	Category 6.3A
Aspiration toxicity	Category 6.1E
Flammable liquids	Category 3.1C
Acute aquatic toxicity	Category 9.1C
Chronic aquatic toxicity	Category 9.1C

16. Other information

Revision Note

Version	Changes
1.0	

Revision Date: 2014-12-05
B11934944

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.

End of Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking

Product name	TH101 Marine Thinner (Standard)
Product code	TH101

Intended use of the substance/preparation
Thinner for professionnal use

Supplier	Axalta Coating Systems Australia Pty Limited
Street address	15 - 23 Melbourne Road, Riverstone NSW 2765, Australia
Telephone	
Telefax	

Emergency Information

Emergency telephone number	+(64) 9801 0034 NZ Poisons Information Centre: 0800 764 766 or +(64) 3 479 7248
Importer	Resene Automotive & Light Industrial
Street/Box	4 Te Apunga Place, Mt Wellington, Auckland, NZ
Nat.-Code/Postal code/City	
Telephone	+64 (09) 259 2738
Date of preparation	2015-01-29

2. Hazards identification

Classified as a Dangerous Good according to NZS 5433
Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001

HSNO Classification

Flammable liquids	Category 3.1B
Skin corrosion/irritation	Category 6.3A
Serious eye damage/eye irritation	Category 6.4A
Toxicity for reproduction	Category 6.8A
Target Organ Systemic Toxicant - Repeated exposure	Category 6.9B
Aspiration toxicity	Category 6.1E

Endpoints which are “”not classified“”, “”cannot classified“” and “”not applicable“” are not shown

GHS-Labelling

Hazard symbols	
Signal word	Danger
Hazard statements	Highly flammable liquid and vapour. Causes skin irritation. Causes serious eye irritation. May damage fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways.
Precautionary statements	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Obtain special instructions before use. Wear protective gloves/protective clothing/eye protection/face protection. Do NOT induce vomiting.

IF exposed or concerned: Get medical advice/ attention.
If eye irritation persists: Get medical advice/ attention.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
Store in a well-ventilated place. Keep cool.

Other hazards which do not result in classification
None known.

3. Composition/information on ingredients

Pure substance/mixture
Mixture

CAS-No.	Chemical Name	Concentration	GHS Hazardous
108-65-6	2-methoxy-1-methylethyl acetate	50 - 60%	√
108-88-3	toluene	20 - 30%	√
141-78-6	ethyl acetate	10 - 20%	√
70657-70-4	2-methoxypropyl-1-acetate	0.1 - 0.3%	√

Non-regulated ingredients 0.0 - 0.1%

4. First aid measures

Eye contact
Remove contact lenses. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Seek medical advice.

Skin contact
Do NOT use solvents or thinners. Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. If skin irritation persists, call a physician.

Inhalation
Avoid inhalation of vapour or mist. Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

Ingestion
If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting. Keep at rest.

Most Important Symptoms/effects, acute and delayed

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Notes to physician
No data available on the product. See section 3 and 11 for hazardous ingredients found in the product.

5. Firefighting measures

Suitable extinguishing media
Universal aqueous film-forming foam, Carbon dioxide (CO2), Dry chemical, Water spray.

Extinguishing media which shall not be used for safety reasons
High volume water jet

Specific hazards
Flammable liquid. Vapours may form explosive mixtures with air. Remove all sources of ignition. Solvent vapours are heavier than air and may spread along floors. Do not allow run-off from fire fighting to enter drains or water courses. Never use pressure to empty container: container is not a pressure vessel. Always keep in containers of same material as the original one.

Special Protective Equipment and Fire Fighting Procedures
Wear as appropriate: Full protective flameproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. In the event of fire, cool tanks with water spray.

6. Accidental release measures

Personal precautions
Keep in a well-ventilated place. Keep away from sources of ignition. Comply with safety directives (see chapters 7 and 8). Do not inhale vapours.

Environmental precautions
Do not let product enter drains. Notify the respective authorities in accordance with local law in the case of contamination of rivers, lakes or waste water systems.

Methods for cleaning up
Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations. Clean preferably with a detergent; avoid use of solvents.

7. Handling and storage

Safe handling advice
Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation may charge electrostatically: always use grounded leads when transferring from one container to another. Operators should wear antistatic footwear and clothing. No sparking tools should be used. Avoid skin and eye contact. Do not breathe vapours or spray mist. Smoking, eating and drinking should be prohibited in the application area.

Storage
Suitable storage conditions
Observe label precautions. Store between 5 and 25 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Suitable container and packaging materials for safe storage
Always keep in containers made of the same material as the supply container.

8. Exposure controls/personal protection

Chemical Name

National occupational exposure limits
Workplace Exposure Standards (WESs) 2002

Chemical Name		
toluene	TWA	50 ppm
	TWA	188 mg/m3
ethyl acetate	TWA	200 ppm
	TWA	720 mg/m3

Engineering measures
Provide adequate ventilation. This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

Protective equipment
Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

Respiratory protection
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Eye protection
Wear protective eyewear for protection against solvent spatter.

Hand protection
The breakthrough time of gloves is unknown for the product itself. The glove material given is recommended on basis of the substances in the preparation.

Chemical Name	Glove material	Glove thickness	Break through time
ethyl acetate	Nitrile rubber	0.33 mm	10 min
	Viton (R) ®	0.7 mm	480 min

The protective glove should be checked in each case for their work specific suitability (e.g. mechanical stability, product compatibility, and anti-static properties). When the intended use is for spray application a nitrile glove of the chemical resistance group 3 (e.g. Dermatril® glove) is to be used. After contamination, the glove has to be changed. If immersing the hands into the product is not avoidable (e.g. maintenance work) a butyl or fluorocarbon rubber glove should be used. When skin exposure may occur to materials specified in section 3 of this SDS, advice should be sought from the glove supplier as to appropriate type to use with this product and the permeation breakthrough times. Care should be taken when working with sharp edged articles as these can easily damage the gloves and make them ineffective. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. Damaged gloves or those showing signs of wear should be replaced immediately.

Skin and body protection
Wear suitable protective clothing. Personnel should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber.

Hygiene measures
Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use organic solvents!

9. Physical and chemical properties

Appearance

Form : liquid Colour: clear Odor Threshold : no data available

pH	No data available.	
Freezing point	Not applicable.	
Boiling point	77 °C	
Flash point	10 °C	
Evapouration rate	Slower than Ether	
Flammability		
Upper explosion limit	11 %	
Lower explosion limit	1.2 %	
Vapour pressure	24.2 hPa	
Solubility(ies)	appreciable	
Vapour density	no data available	
Density	0.93 g/cm^3	DIN 53217/ISO 2811
Partition coefficient: n-octanol/water	no data available	
Ignition temperature	272 °C	DIN 51794
Decomposition temperature		
Viscosity (23 °C)	<20 s	ISO 2431-1993 6 mm

10. Stability and reactivity

Stability
Stable

Hazardous polymerisation
Will not occur.

Conditions to avoid
Stable under recommended storage and handling conditions (see section 7).

Materials to avoid
Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Hazardous decomposition products
When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

11. Toxicological information

Information on likely routes of exposure

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Delayed and immediate effects and also chronic effects from short and long term exposure:

Acute oral toxicity
not hazardous

Acute dermal toxicity
not hazardous

Acute inhalation toxicity
not hazardous

% of unknown composition 0 %

Skin corrosion/irritation

toluene	Category 2
ethyl acetate	Category 3

Serious eye damage/eye irritation

2-methoxy-1-methylethyl acetate	Category 2A
toluene	Category 2B
ethyl acetate	Category 2A

Respiratory sensitisation
Not classified according to GHS criteria

Skin sensitisation
Not classified according to GHS criteria

Germ cell mutagenicity
Not classified according to GHS criteria

Carcinogenicity
Not classified according to GHS criteria

Toxicity for reproduction

toluene	Category 2
2-methoxypropyl-1-acetate	Category 1B

Target Organ Systemic Toxicant - Single exposure
Not classified according to GHS criteria

Target Organ Systemic Toxicant - Repeated exposure

- **Skin Absorption**

  Body weight effects ethyl acetate

Aspiration toxicity

toluene	Category 1

Numerical measures of toxicity (acute toxicity estimation (ATE),etc.)
No information available.

Symptoms related to the physical, chemical and toxicological characteristics
Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Through skin resorbtion, solvents can cause some of the effects described here. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.

12. Ecological information

Product contains environmentally hazardous substances and product is not classified per GHS.

Ecotoxicity effects
There are no data available on the product itself. The product should not be allowed to enter drains or watercourses.

Acute aquatic toxicity

toluene	Category 2

Chronic aquatic toxicity

% of unknown composition 0%

Persistence and degradability
No information available.

Bioaccumulation
No information available.

Mobility in soil
No information available.

Other adverse effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods
Dispose of in accordance with local regulations.

Disposal considerations
A disposal process that converts the waste into energy is recommended. If this is not possible the hazardous waste must be disposed of by incineration.

14. Transport information

NZS5433

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Packing group:	II
Hazchem Code:	3YE

IMDG (Sea transport)

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	II
Marine Pollutant:	no
EmS:	F-E,S-E

ICAO/IATA (Air transport)

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263

Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	II

Matters needing attention for transportation
Confirm that there is no breakage, corrosion, or leakage from the container before shipping. Be sure to prevent damage to cargo by loading so as to avoid falling, dropping, or collapse. Ship in appropriate containers with denotation of the content in accordance with the relevant statutes and rules.

15. Regulatory information

National regulatory information

HSNO Approval Code	HSR002662
HSNO Control A	This product must be under the control of an approved handler during use.
HSNO Classification	
Skin corrosion/irritation	Category 6.3A
Serious eye damage/eye irritation	Category 6.4A
Toxicity for reproduction	Category 6.8A
Target Organ Systemic Toxicant - Repeated exposure	Category 6.9B
Aspiration toxicity	Category 6.1E
Flammable liquids	Category 3.1B

16. Other information

Revision Note

Version	Changes
1.0	

Revision Date: 2015-01-29
B12157083

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.

End of Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking

Product name	TH102 Marine Thinner (Slow)
Product code	TH102

Intended use of the substance/preparation
Thinner for professionnal use

Supplier	Axalta Coating Systems Australia Pty Limited
Street address	15 - 23 Melbourne Road, Riverstone NSW 2765, Australia
Telephone	
Telefax	

Emergency Information

Emergency telephone number	+(64) 9801 0034 NZ Poisons Information Centre: 0800 764 766 or +(64) 3 479 7248
Importer	Resene Automotive & Light Industrial
Street/Box	4 Te Apunga Place, Mt Wellington, Auckland, NZ
Nat.-Code/Postal code/City	
Telephone	+64 (09) 259 2738
Date of preparation	2015-01-29

2. Hazards identification

Classified as a Dangerous Good according to NZS 5433
Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001

HSNO Classification

Flammable liquids	Category 3.1C
Acute oral toxicity	Category 6.1D
Acute dermal toxicity	Category 6.1D
Acute inhalation toxicity	Category 6.1D
Chronic aquatic toxicity	Category 9.1C

Endpoints which are “”not classified“”, “”cannot classified“” and “”not applicable“” are not shown

GHS-Labelling

Hazard symbols	
Signal word	Warning
Hazard statements	Flammable liquid and vapour. Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled. Harmful to aquatic life with long lasting effects.
Precautionary statements	Avoid release to the environment. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Wear protective gloves/ protective clothing. Avoid breathing dust/ vapours/ spray. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Store in a well-ventilated place. Keep cool.

Other hazards which do not result in classification
None known.

3. Composition/information on ingredients

Pure substance/mixture
Mixture

CAS-No.	Chemical Name	Concentration	GHS Hazardous
112-07-2	2-butoxyethyl acetate	80 - 90%	√
64742-82-1	naphtha (petroleum), hydrodesulfurized heavy (<0,1% benzene)	5 - 10%	√
95-63-6	1,2,4-trimethylbenzene	0.3 - 1.0%	√
111-76-2	2-butoxyethanol	0.3 - 1.0%	√
108-67-8	mesitylene	0.1 - 0.3%	√
100-41-4	ethylbenzene	0.1 - 0.3%	√
1330-20-7	xylene	0.1 - 0.3%	√

Non-regulated ingredients 1 - 5%

4. First aid measures

Eye contact
Remove contact lenses. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Seek medical advice.

Skin contact
Do NOT use solvents or thinners. Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. If skin irritation persists, call a physician.

Inhalation
Avoid inhalation of vapour or mist. Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

Ingestion
If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting. Keep at rest.

Most Important Symptoms/effects, acute and delayed

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Notes to physician
No data available on the product. See section 3 and 11 for hazardous ingredients found in the product.

5. Firefighting measures

Suitable extinguishing media
Universal aqueous film-forming foam, Carbon dioxide (CO2), Dry chemical, Water spray.

Extinguishing media which shall not be used for safety reasons
High volume water jet

Specific hazards
The product is not flammable. Avoid heating above flash point. Do not allow run-off from fire fighting to enter drains or water courses. Never use pressure to empty container: container is not a pressure vessel. Always keep in containers of same material as the original one.

Special Protective Equipment and Fire Fighting Procedures
Wear as appropriate: Full protective flameproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. In the event of fire, cool tanks with water spray.

6. Accidental release measures

Personal precautions
Keep in a well-ventilated place. Keep away from sources of ignition. Comply with safety directives (see chapters 7 and 8). Do not inhale vapours.

Environmental precautions
Do not let product enter drains. Notify the respective authorities in accordance with local law in the case of contamination of rivers, lakes or waste water systems.

Methods for cleaning up
Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations. Clean preferably with a detergent; avoid use of solvents.

7. Handling and storage

Safe handling advice
Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation may charge electrostatically: always use grounded leads when transferring from one container to another. Operators should wear antistatic footwear and clothing. No sparking tools should be used. Avoid skin and eye contact. Do not breathe vapours or spray mist. Smoking, eating and drinking should be prohibited in the application area.

Storage
Suitable storage conditions
Observe label precautions. Store between 5 and 25 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Suitable container and packaging materials for safe storage
Always keep in containers made of the same material as the supply container.

8. Exposure controls/personal protection

Chemical Name		

National occupational exposure limits
Workplace Exposure Standards (WESs) 2002

Chemical Name		
1,2,4-trimethylbenzene	TWA	25 ppm
	TWA	123 mg/m3
2-butoxyethanol	TWA	25 ppm
	TWA	121 mg/m3
mesitylene	TWA	25 ppm
	TWA	25 ppm
	TWA	123 mg/m3
	TWA	123 mg/m3
ethylbenzene	TWA	100 ppm
	STEL	125 ppm
	STEL	543 mg/m3
	TWA	434 mg/m3
xylene	TWA	50 ppm
	TWA	217 mg/m3

Engineering measures
Provide adequate ventilation. This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

Protective equipment
Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

Respiratory protection
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Eye protection
Wear protective eyewear for protection against solvent spatter.

Hand protection
The breakthrough time of gloves is unknown for the product itself. The glove material given is recommended on basis of the substances in the preparation.

Chemical Name	Glove material	Glove thickness	Break through time
2-butoxyethyl acetate	Viton (R) ®	0.7 mm	480 m
	Nitrile rubber	0.33 mm	480 m
naphtha (petroleum), hydrodesulfurized heavy (<0,1% benzene)	Nitrile rubber	0.33 mm	30 min
	Viton (R) ®	0.7 mm	480 min
2-butoxyethanol	Viton (R) ®	0.7 mm	480 min

Chemical Name	Glove material	Glove thickness	Break through time
	Nitrile rubber	0.33 mm	480 min
xylene	Nitrile rubber	0.33 mm	30 min
	Viton (R) ®	0.7 mm	480 min

The protective glove should be checked in each case for their work specific suitability (e.g. mechanical stability, product compatibility, and anti-static properties). When the intended use is for spray application a nitrile glove of the chemical resistance group 3 (e.g. Dermatril® glove) is to be used. After contamination, the glove has to be changed. If immersing the hands into the product is not avoidable (e.g. maintenance work) a butyl or fluorocarbon rubber glove should be used. When skin exposure may occur to materials specified in section 3 of this SDS, advice should be sought from the glove supplier as to appropriate type to use with this product and the permeation breakthrough times. Care should be taken when working with sharp edged articles as these can easily damage the gloves and make them ineffective. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. Damaged gloves or those showing signs of wear should be replaced immediately.

Skin and body protection
Wear suitable protective clothing. Personnel should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber.

Hygiene measures
Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use organic solvents!

9. Physical and chemical properties

Appearance

Form : liquid Colour: clear Odor Threshold : no data available

pH	not applicable	
Freezing point	Not applicable.	
Boiling point	145 °C	
Flash point	46 °C	
Evapouration rate	Slower than Ether	
Flammability		
Upper explosion limit	7 %	
Lower explosion limit	0.7 %	
Vapour pressure	3.9 hPa	
Solubility(ies)	moderate	
Vapour density	no data available	
Density	0.92 g/cm^3	DIN 53217/ISO 2811
Partition coefficient: n-octanol/water	no data available	
Ignition temperature	201 °C	DIN 51794
Decomposition temperature		
Viscosity (23 °C)	<20 s	ISO 2431-1993 6 mm

10. Stability and reactivity

Stability
Stable

Hazardous polymerisation
Will not occur.

Conditions to avoid
Stable under recommended storage and handling conditions (see section 7).

Materials to avoid
Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Hazardous decomposition products
When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

11. Toxicological information

Information on likely routes of exposure

Inhalation
May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ingestion
May result in gastrointestinal distress.

Skin or eye contact
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Delayed and immediate effects and also chronic effects from short and long term exposure:

Acute oral toxicity

2-butoxyethyl acetate	Category 4
1,2,4-trimethylbenzene	Category 5
2-butoxyethanol	Category 4
ethylbenzene	Category 5
xylene	Category 5

Acute dermal toxicity

2-butoxyethyl acetate	Category 4
2-butoxyethanol	Category 3
xylene	Category 4

Acute inhalation toxicity

2-butoxyethyl acetate	Category 4
1,2,4-trimethylbenzene	Category 4
2-butoxyethanol	Category 4
ethylbenzene	Category 4
xylene	Category 4

% of unknown composition 0 %

Skin corrosion/irritation
Not classified according to GHS criteria

Serious eye damage/eye irritation
Not classified according to GHS criteria

Respiratory sensitisation
Not classified according to GHS criteria

Skin sensitisation
Not classified according to GHS criteria

Germ cell mutagenicity
Not classified according to GHS criteria

Carcinogenicity
Not classified according to GHS criteria

Toxicity for reproduction
Not classified according to GHS criteria

Target Organ Systemic Toxicant - Single exposure
Not classified according to GHS criteria

Target Organ Systemic Toxicant - Repeated exposure
Not classified according to GHS criteria

Aspiration toxicity
Not classified according to GHS criteria

Numerical measures of toxicity (acute toxicity estimation (ATE),etc.)
No information available.

Symptoms related to the physical, chemical and toxicological characteristics
Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Through skin resorbtion, solvents can cause some of the effects described here. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.

12. Ecological information

Product contains environmentally hazardous substances and product is not classified per GHS.

Ecotoxicity effects
There are no data available on the product itself. The product should not be allowed to enter drains or watercourses.

Chronic aquatic toxicity

naphtha (petroleum), hydrodesulfurized heavy (<0,1% benzene)	Category 2
1,2,4-trimethylbenzene	Category 2
mesitylene	Category 2

% of unknown composition 0%

Persistence and degradability
No information available.

Bioaccumulation
No information available.

Mobility in soil
No information available.

Other adverse effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods
Dispose of in accordance with local regulations.

Disposal considerations
A disposal process that converts the waste into energy is recommended. If this is not possible the hazardous waste must be disposed of by incineration.

14. Transport information

NZS5433

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Packing group:	III
Hazchem Code:	3Y

IMDG (Sea transport)

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	III
Marine Pollutant:	no
EmS:	F-E,S-E

ICAO/IATA (Air transport)

Proper shipping name:	PAINT RELATED MATERIAL
UN number:	1263
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable.
Packing group:	III

Matters needing attention for transportation
Confirm that there is no breakage, corrosion, or leakage from the container before shipping. Be sure to prevent damage to cargo by loading so as to avoid falling, dropping, or collapse. Ship in appropriate containers with denotation of the content in accordance with the relevant statutes and rules.

15. Regulatory information

National regulatory information

HSNO Approval Code	HSR002662
HSNO Classification	
Acute oral toxicity	Category 6.1D
Acute dermal toxicity	Category 6.1D
Acute inhalation toxicity	Category 6.1D
Flammable liquids	Category 3.1C
Chronic aquatic toxicity	Category 9.1C

16. Other information

Revision Note

Version	Changes
1.0	

Revision Date: 2015-01-29
B12157077

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.

End of Safety Data Sheet