RESENE AUTOMOTIVE & LIGHT INDUSTRIAL

Version No: 1.1 Safety Data Sheet according to HSNO Regulations Issue Date: 01/09/2016 Print Date: 01/09/2016 L.GHS.NZL.EN

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifier

Product name	RALI RADIATOR BLACK
Synonyms	Not Available
Proper shipping name	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)
Other means of identification	Not Available

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses 8827

Details of the supplier of the safety data sheet

Registered company name	RESENE AUTOMOTIVE & LIGHT INDUSTRIAL
Address	32-50 Vogel Street Wellington Naenae New Zealand
Telephone	+64 4 5770500
Fax	+64 4 5773327
Website	www.resene.co.nz
Email	advice@resene.co.nz

Emergency telephone number

Association / Organisation	NZ POISONS (24hr 7 days)
Emergency telephone numbers	0800 764766
Other emergency telephone numbers	0800 737636

CHEMWATCH EMERGENCY RESPONSE

Primary Number	Alternative Number 1	Alternative Number 2
+800 2436 2255	+800 2436 2255	+612 9186 1132

Once connected and if the message is not in your prefered language then please dial 01

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

Considered a Hazardous Substance according to the criteria of the New Zealand Hazardous Substances New Organisms legislation. Classified as Dangerous Goods for transport purposes.

Classification ^[1]	Skin Corrosion/Irritation Category 2, Acute Toxicity (Oral) Category 4, Acute Toxicity (Dermal) Category 4, Eye Irritation Category 2A, Reproductive Toxicity Category 2, Specific target organ toxicity - single exposure Category 2, Acute Aquatic Hazard Category 3, Chronic Aquatic Hazard Category 3, Flammable Liquid Category 2
Legend:	1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ ; 3. Classification drawn from EC Directive 1272/2008 - Annex VI
Determined by Chemwatch using GHS/HSNO criteria	3.1B, 6.1D (dermal), 9.1C, 6.4A, 6.1D (oral), 6.9B, 6.3A, 9.1D, 6.8B

Label elements

GHS label elements	
SIGNAL WORD	DANGER

Hazard statement(s)

H315

Causes skin irritation.

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H319	Causes serious eye irritation.
H361	Suspected of damaging fertility or the unborn child.
H371	May cause damage to organs.
H412	Harmful to aquatic life with long lasting effects.
H225	Highly flammable liquid and vapour.
Precautionary statement(s) P201) Prevention Obtain special instructions before use.
Precautionary statement(s)) Response
P308+P313	IF exposed or concerned: Get medical advice/attention.
Precautionary statement(s)) Storage
P403+P235	Store in a well-ventilated place. Keep cool.

Precautionary statement(s) Disposal

P501

Dispose of contents/container in accordance with local regulations.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

The specific chemical identity and/ or exact percentage of composition has been withheld as a trade secret

Mixtures

CAS No	%[weight]	Name
1330-20-7	20-40	xylene
110-82-7	1-10	cyclohexane
110-54-3	1-10	n-hexane
108-87-2	1-10	methylcyclohexane
108-88-3	20-40	toluene

SECTION 4 FIRST AID MEASURES

NZ Poisons Centre 0800 POISON (0800 764 766) | NZ Emergency Services: 111

Description of first aid measures

Eye Contact	 If this product comes in contact with the eyes: Wash out immediately with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Seek medical attention without delay; if pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	 If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhalation	 If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor.
Ingestion	 If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Seek medical advice. Avoid giving milk or oils. Avoid giving alcohol. If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically

Extinguishing media

Foam.

Special hazards arising from the substrate or mixture

Fire Incompatibility	Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result	
Advice for firefighters		
Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. 	
Fire/Explosion Hazard	 Liquid and vapour are highly flammable. Combustion products include; carbon dioxide (CO2) other pyrolysis products typical of burning organic material Contains low boiling substance: Closed containers may rupture due to pressure buildup under fire conditions. 	

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	▶ Remove all ignition sources.
Major Spills	Chemical Class: aromatic hydrocarbons For release onto land: recommended sorbents listed in order of priority. Clear area of personnel and move upwind.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

Safe handling	 Containers, even those that have been emptied, may contain explosive vapours. Contains low boiling substance: Storage in sealed containers may result in pressure buildup causing violent rupture of containers not rated appropriately. Electrostatic discharge may be generated during pumping - this may result in fire. Avoid all personal contact, including inhalation. DO NOT allow clothing wet with material to stay in contact with skin
Other information	 Store in original containers in approved flame-proof area.

Conditions for safe storage, including any incompatibilities

Suitable container	 Packing as supplied by manufacturer. For low viscosity materials (i) : Drums and jerry cans must be of the non-removable head type.
Storage incompatibility	 ▶ reacts violently with strong oxidisers. ▶ may generate electrostatic charges.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
New Zealand Workplace Exposure Standards (WES)	xylene	Xylene (o-, m-, p-isomers)	217 mg/m3 / 50 ppm	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	cyclohexane	Cyclohexane	350 mg/m3 / 100 ppm	1050 mg/m3 / 300 ppm	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	n-hexane	Hexane (n-Hexane)	72 mg/m3 / 20 ppm	Not Available	Not Available	Exposure can also be estimated by biological monitoring.
New Zealand Workplace Exposure Standards (WES)	methylcyclohexane	Methylcyclohexane	1610 mg/m3 / 400 ppm	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	toluene	Toluene	188 mg/m3 / 50 ppm	Not Available	Not Available	Skin absorption

EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
xylene	Xylenes	Not Available	Not Available	Not Available
cyclohexane	Cyclohexane	100 ppm	100 ppm	10000 ppm
n-hexane	Hexane	300 ppm	Not Available	Not Available

methylcyclohexane	Methylcyclohexane	400 ppm		400 ppm	10000 ppm	
toluene	Toluene	Not Available		Not Available	Not Available	
In the Part						
Ingredient	Original IDLH		Revi	sed IDLH		
xylene	1,000 ppm		900 ppm			
cyclohexane	10,000 ppm		1,300	1,300 [LEL] ppm		
n-hexane	5,000 ppm		1,100 [LEL] ppm			
methylcyclohexane	10,000 ppm		1,200 [LEL] ppm			
toluene	2,000 ppm		500 ppm			

MATERIAL DATA

For methylcyclohexane:

High concentrations produce narcosis in animals

For cyclohexane:

Odour Threshold Value: 784 ppm (detection)

NOTE: Detector tubes for cyclohexane, measuring in excess of 100 ppm are commercially available.

for propylene glycol monomethyl ether acetate (PGMEA) Saturated vapour concentration: 4868 ppm at 20 C.

for xylenes:

IDLH Level: 900 ppm

Odour Threshold Value: 20 ppm (detection), 40 ppm (recognition)

NOTE: Detector tubes for o-xylene, measuring in excess of 10 ppm, are available commercially. For n-hexane:

Odour Threshold Value: 65 ppm

NOTE: Detector tubes for n-hexane, measuring in excess of 100 ppm, are available commercially. For toluene:

Odour Threshold Value: 0.16-6.7 (detection), 1.9-69 (recognition)

NOTE: Detector tubes measuring in excess of 5 ppm, are available.

Exposure controls

Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard.
Personal protection	
Eye and face protection	► Safety glasses with side shields.
Skin protection	See Hand protection below
Hands/feet protection	 Wear chemical protective gloves, e.g. PVC. The selection of suitable gloves does not only depend on thematerial, but also on further marks of quality which vary from manufacturer tomanufacturer.
Body protection	See Other protection below
Other protection	 Overalls. Some plastic personal protective equipment (PPE) (e.g. gloves, aprons, overshoes) are not recommended as they may produce static electricity.
Thermal hazards	Not Available

Respiratory protection

Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content. The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.

Selection of the Class and Type of respirator will depend upon the level of breathingzone contaminant and the chemical nature of the contaminant. Protection Factors(defined as the ratio of contaminant outside and inside the mask) may also beimportant.

Required minimum protection factor	Maximum gas/vapour concentration present in air p.p.m. (by volume)	Half-face Respirator	Full-Face Respirator
up to 10	1000	A-AUS / Class 1	-
up to 50	1000	-	A-AUS / Class 1
up to 50	5000	Airline *	-
up to 100	5000	-	A-2
up to 100	10000	-	A-3
100+		-	Airline**

* -Continuous Flow

** -Continuous-flow or positive pressure demand.

A(Allclasses) = Organic vapours, B AUS or B1 = Acid gases, B2 = Acid gas or hydrogencyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides ofnitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below65 deg C)

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Thin black liquid with strong solvent odour		
Physical state	Liquid	Relative density (Water = 1)	0.88-0.89

Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	34-45
Initial boiling point and boiling range (°C)	138	Molecular weight (g/mol)	Not Available
Flash point (°C)	4	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	HIGHLY FLAMMABLE.	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	78
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	664

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	 Unstable in the presence of incompatible materials.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Inhaled	Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may be harmful. The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models). Inhalation of vapours may cause drowsiness and dizziness. Headache, fatigue, lassitude, irritability and gastrointestinal disturbances (e.g., nausea, anorexia and flatulence) are the most common symptoms.			
Ingestion	Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual. Swallowing of the liquid may cause aspiration of vomit into the lungs with the risk of haemorrhaging, pulmonary oedema, progressing to chemical pneumonitis; serious consequences may result.			
Skin Contact	Skin contact with the material may be harmful; systemic effects may result following absorption. The material may accentuate any pre-existing dermatitis condition Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds or lesions, may produce systemic injury with harmful effects.			
Eye	Evidence exists, or practical experience predicts, that the material may cause eye irritation in a substantial number of individuals and/or may produce significant ocular lesions which are present twenty-four hours or more after instillation into the eye(s) of experimental animals.			
Chronic	Exposure to the material may cause concerns for humans owing to possible developmental toxic effects, generally on the basis that results in appropriate animal studies provide strong suspicion of developmental toxicity in the absence of signs of marked maternal toxicity, or at around the same dose levels as other toxic effects but which are not a secondary non-specific consequence of other toxic effects. Chronic toluene habituation occurs following intentional abuse (glue sniffing) or from occupational exposure. Prolonged or repeated contact with xylenes may cause defatting dermatitis with drying and cracking. Chronic inhalation or skin exposure to n-hexane may cause peripheral neuropathy, which is damage to nerve ends in extremities, e.g. fingers, with loss of sensation and characteristic thickening.			
TOXICITY IRRITATION Not Available Not Available				

xylene	TOXICITY	IRRITATION		
	Dermal (rabbit) LD50: >1700 mg/kg ^[2]	Eye (human): 200 ppm irritant		
	Inhalation (rat) LC50: 5000 ppm/4hr ^[2]	Eye (rabbit): 5 mg/24h SEVERE		
	Oral (rat) LD50: 4300 mg/kg ^[2]	Eye (rabbit): 87 mg mild		
		Skin (rabbit):500 mg/24h moderate		

	TOXICITY	IRRITAT	TION	
cyclohexane	Inhalation (mouse) LC50: 70 mg/L/2hr ^[2]	Skin(rab	Skin(rabbit): 1548 mg/48hr - mild	
	Oral (rat) LD50: 12705 mg/kg ^[2]			
	ТОХІСІТҮ		IRRITATION	
n-hexane	Dermal (rabbit) LD50: >3301.5 mg/kg ^[1]	Dermal (rabbit) LD50: >3301.5 mg/kg ^[1] Eye(rabbit): 10 mg - Labelstice (rat) LO50: 40000 com (4L ²]		- mild
	Oral (rat) LD50: 15847.2 mg/kg ^[1]			
	TOXICITY			IRRITATION
	dermal (rat) LD50: >=3080 mg/kg ^[1]			Nil reported
methylayalahayana	Inhalation (mouse) LC50: 36.9 mg/L/2hr ^[2]			
methylcyclonexane	Inhalation (mouse) LC50: 41.5 mg/L/2hr ^[2]			
	Inhalation (rat) LC50: 33-42 mg/l/4hr ^[1]			
	Oral (rat) LD50: >6160 mg/kg ^[1]			
	TOVICITY		101	
	Dermal (rabbit) I D50: 12124 mg/kg ^[2]	Eve (rabl	Eve (rabbit): 2mg/24b - SEVERE	
	Inhalation (rat) LC50: >26700 ppm/1hr ^[2]	Eye (rab	Eve (rabbit): 2 mg - mild	
toluene	Inhalation (rat) LC50: 49 mg/L/4hr ^[2]	Eye (rabl	Eye (rabbit):100 mg/30sec - mild	
	Oral (rat) LD50: 636 mg/kg ^[2]	Skin (rab	Skin (rabbit):20 mg/24h-moderate	
		Skin (rab	Skin (rabbit):500 mg - moderate	
Legend:	 Value obtained from Europe ECHA Registered Substances - Acu extracted from RTECS - Register of Toxic Effect of chemical Substa 	te toxicity 2.* Value obtained	from manufacturer's	SDS. Unless otherwise specified data
	•			

XYLENE	The material may produce severe irritation to the eye causing pronounced inflammation. The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans. Reproductive effector in rats			
CYCLOHEXANE	Bacteria mutagen			
N-HEXANE	The material may be irritating to the eye, with prolonged conta	act causing inflammation.		
RALI RADIATOR BLACK & TOLUENE	For toluene: Acute Toxicity Humans exposed to intermediate to high levels of toluene for short periods of time experience adverse central nervous system effects ranging from headaches to intoxication, convulsions, narcosis, and death.			
XYLENE & TOLUENE	The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic).			
A	-4	A	8	
Acute Toxicity	.	Carcinogenicity	0	
Skin Irritation/Corrosion	✓	Reproductivity	✓	
Serious Eye Damage/Irritation	*	STOT - Single Exposure	*	
Respiratory or Skin sensitisation	\otimes	STOT - Repeated Exposure	\otimes	
Mutagenicity	0	Aspiration Hazard	0	

Legend: X

Data available but does not fill the criteria for classification
 Data required to make classification available

Data Not Available to make classification

SECTION 12 ECOLOGICAL INFORMATION

Toxicity					
Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
xylene	LC50	96	Fish	0.0013404mg/L	4
xylene	EC50	48	Crustacea	>3.4mg/L	2
xylene	EC50	72	Algae or other aquatic plants	4.6mg/L	2
xylene	EC50	24	Crustacea	0.711mg/L	4
xylene	NOEC	73	Algae or other aquatic plants	0.44mg/L	2

cyclohexane	LC50	96	Fish	0.0045303mg/L	4
cyclohexane	EC50	48	Crustacea	0.00378810mg/L	4
cyclohexane	EC50	96	Algae or other aquatic plants	2.17mg/L	2
cyclohexane	EC50	3	Algae or other aquatic plants	0.0319884mg/L	4
cyclohexane	NOEC	72	Algae or other aquatic plants	0.9mg/L	2
n-hexane	LC50	96	Fish	0.0025003mg/L	4
n-hexane	EC50	48	Crustacea	0.00387765mg/L	4
n-hexane	EC50	96	Algae or other aquatic plants	3.089mg/L	3
n-hexane	EC50	3	Algae or other aquatic plants	0.00809998mg/L	4
methylcyclohexane	LC50	96	Fish	1.152mg/L	3
methylcyclohexane	EC50	48	Crustacea	0.00147315mg/L	4
methylcyclohexane	EC50	72	Algae or other aquatic plants	0.134mg/L	2
methylcyclohexane	EC50	3	Algae or other aquatic plants	0.01050847mg/L	4
methylcyclohexane	NOEC	72	Algae or other aquatic plants	0.0221mg/L	2
toluene	LC50	96	Fish	0.0031704mg/L	4
toluene	EC50	48	Crustacea	0.01151750mg/L	4
toluene	EC50	72	Algae or other aquatic plants	12.5mg/L	4
toluene	BCF	24	Algae or other aquatic plants	10mg/L	4
toluene	EC50	3	Algae or other aquatic plants	0.1336030mg/L	4
toluene	NOEC	168	Crustacea	0.74mg/L	2
	Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 -				

Legend:

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 -Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) -Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Within an aromatic series, acute toxicity increases with increasing alkyl substitution on the aromatic nucleus.

For xylenes : log Koc : 2.05-3.08 Koc : 25.4-204 Half-life (hr) air : 0.24-42 Half-life (hr) H2O surface water : 24-672 Half-life (hr) H2O ground : 336-8640 Half-life (hr) soil : 52-672 Henry's Pa m3 /mol: 637-879 Henry's atm m3 /mol: 7.68E-03 BOD 5 if unstated: 1.4,1% COD : 2.56,13% ThOD : 3.125 BCF : 23 log BCF : 1.17-2.41 **Environmental Fate** Terrestrial fate:: Measured Koc values of 166 and 182, indicate that 3-xylene is expected to have moderate mobility in soil. For cyclohexanes: log Kow: 3.44 Water solubility: 54.8 mg/l (25 C) Vapour pressure 97.6 mm Hg (25 C) Henry's Law Constant: 0.193 atm-m3/mole Koc : 480 Half-life (hr) air : 6-52 Half-life (hr) H2O surface water : 2 ThOD : 3.42 BCF : 242 Environmental fate: Terrestrial fate: If released on land cyclohexanewill be lost by volatilisation and should leach into the ground. For toluene: log Kow : 2.1-3 log Koc : 1.12-2.85 Koc : 37-260 log Kom : 1.39-2.89 Half-life (hr) air : 2.4-104 Half-life (hr) H2O surface water : 5.55-528 Half-life (hr) H2O ground : 168-2628 Half-life (hr) soil : <48-240 Henry's Pa m3 /mol: 518-694 Henry's atm m3 /mol: 5.94E-03 BOD 5 0.86-2.12.5% COD : 0.7-2.52.21-27% ThOD : 3.13 BCF : 1.67-380 log BCF : 0.22-3.28 Environmental fate: Transport: The majority of toluene evaporates to the atmosphere from the water and soil. It is moderately retarded by adsorption to soils rich in organic material (Koc = 259), therefore, transport to ground water is dependent on the soil composition. DO NOT discharge into sewer or waterways

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
xylene	HIGH (Half-life = 360 days)	LOW (Half-life = 1.83 days)
cyclohexane	HIGH (Half-life = 360 days)	LOW (Half-life = 3.63 days)
n-hexane	LOW	LOW
methylcyclohexane	LOW	LOW
toluene	LOW (Half-life = 28 days)	LOW (Half-life = 4.33 days)

Bioaccumulative potential

Ingredient	Bioaccumulation
xylene	MEDIUM (BCF = 740)
cyclohexane	LOW (BCF = 242)
n-hexane	MEDIUM (LogKOW = 3.9)
methylcyclohexane	LOW (BCF = 321)
toluene	LOW (BCF = 90)

Mobility in soil

Ingredient	Mobility
cyclohexane	LOW (KOC = 165.5)
n-hexane	LOW (KOC = 149)
methylcyclohexane	LOW (KOC = 268)
toluene	LOW (KOC = 268)

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

	 Containers may still present a chemical hazard/ danger when empty. 		
Product / Packaging	Legislation addressing waste disposal requirements may differ by country, state and/ or territory.		
disposal	DO NOT allow wash water from cleaning or process equipment to enter drains.		
	 Recycle wherever possible. 		

Ensure that the disposal of material is carried out in accordance with Hazardous Substances (Disposal) Regulations 2001.

SECTION 14 TRANSPORT INFORMATION

Labels Required

	FLAMMARE 3
Marine Pollutant	NO
HAZCHEM	•3YE

Land transport (UN)

UN number	1263
UN proper shipping name	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)
Transport hazard class(es)	Class 3 Subrisk Not Applicable
Packing group	
Environmental hazard	Not Applicable
Special precautions for user	Special provisions163; 367Limited quantity5 L

Air transport (ICAO-IATA / DGR)

1

UN number	1263
UN proper shipping name	Paint (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base); Paint related material (including paint thinning or reducing compounds)

		1	
	ICAO/IATA Class	3	
Transport hazard class(es)	ICAO / IATA Subrisk	Not Applicable	
	ERG Code	3L	
Packing group			
Environmental hazard	Not Applicable		
Special precautions for user	Special provisions		A3 A72 A192
	Cargo Only Packing Instructions		364
	Cargo Only Maximum Qty / Pack		60 L
	Passenger and Cargo Packing Instructions		353
	Passenger and Cargo Maximum Qty / Pack		5 L
	Passenger and Cargo	b Limited Quantity Packing Instructions	Y341
	Passenger and Cargo	Limited Maximum Otv / Pack	11

Sea transport (IMDG-Code / GGVSee)

UN number	1263
UN proper shipping name	PAINT (including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)
Transport hazard class(es)	IMDG Class3IMDG SubriskNot Applicable
Packing group	П
Environmental hazard	Not Applicable
Special precautions for user	EMS NumberF-E, S-ESpecial provisions163 367Limited Quantities5 L

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

SECTION 15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation specific for the substance or mixture

This substance is to be managed using the conditions specified in an applicable Group Standard

HSR Number	Group Standard				
HSR002662	Surface Coatings and Colourants (Flammable) Group Standard 2006				
XYLENE(1330-20-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS					
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs		New Zealand Inventory of Chemicals (NZIoC) New Zealand Workplace Exposure Standards (WES)			
New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals					
CYCLOHEXANE(110-82-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS					
New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals		New Zealand Workplace Exposure Standards (WES)			
New Zealand Inventory of Chemicals (NZIoC)					
N-HEXANE(110-54-3) IS FOUND ON THE FOLLOWING REGULATORY LISTS					
New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals		New Zealand Workplace Exposure Standards (WES)			
New Zealand Inventory of Chemicals (NZIoC)					
METHYLCYCLOHEXANE(108-87-2) IS FOUND ON THE FOLLOWING REGULATORY LISTS					
New Zealand Hazardous Substar Chemicals	nces and New Organisms (HSNO) Act - Classification of	New Zealand Workplace Exposure Standards (WES)			
New Zealand Inventory of Chemicals (NZIoC)					
TOLUENE(108-88-3) IS FOUND ON THE FOLLOWING REGULATORY LISTS					
International Agency for Research Monographs	h on Cancer (IARC) - Agents Classified by the IARC	New Zealand Inventory of Chemicals (NZIoC) New Zealand Workplace Exposure Standards (WES)			
New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals					

Location Test Certificate

Subject to Regulation 55 of the Hazardous Substances (Classes 1 to 5 Controls) Regulations, a location test certificate is required when quantity greater than or equal to those indicated below are present.

Hazard Class	Quantity beyond which controls apply for closed containers	Quantity beyond which controls apply when use occurring in open containers
3.1B	100 L in containers greater than 5 L	50 L
	250 L in containers up to and including 5 L	50 L

Approved Handler

Subject to Regulation 56 of the Hazardous Substances (Classes 1 to 5 Controls) Regulations and Regulation 9 of the Hazardous Substances (Classes 6, 8, and 9 Controls) Regulations, the substance must be under the personal control of an Approved Handler when present in a quantity greater than or equal to those indicated below.

Class of substance	Quantities
3.1B	250 L (when in containers greater than 5 L) 500 L (when in containers up to and including 5 L)

Refer Group Standards for further information

Tracking Requirements

Not Applicable

National Inventory	Status
Australia - AICS	Y
Canada - DSL	Y
Canada - NDSL	N (toluene; methylcyclohexane; xylene; cyclohexane; n-hexane)
China - IECSC	Y
Europe - EINEC / ELINCS / NLP	Y
Japan - ENCS	Y
Korea - KECI	Y
New Zealand - NZIoC	Y
Philippines - PICCS	Y
USA - TSCA	Y
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

SECTION 16 OTHER INFORMATION

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment.

Definitions and abbreviations

PC – TWA: Permissible Concentration-Time Weighted Average PC – STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit TEEL: Temporary Emergency Exposure Limit. IDLH: Immediately Dangerous to Life or Health Concentrations OSF: Odour Safety Factor NOAEL: No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level LODE: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index

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