RESENE AUTOMOTIVE & LIGHT INDUSTRIAL

Version No: 1.3

Safety Data Sheet according to HSNO Regulations

Chemwatch Hazard Alert Code:

Issue Date: **18/12/2014** Print Date: **18/12/2014** Initial Date: **18/12/2014** S.GHS.NZL.EN

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

Product Identifier

Product name	RALI ACRYTHANE HARDENER FAST	
Chemical Name	Not Applicable	
Synonyms	9513	
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)	
Chemical formula	Not Applicable	
Other means of identification	Not Available	
CAS number	Not Applicable	

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

Relevant identified uses	Use according to manufacturer's directions.
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Details of the manufacturer/importer

Registered company name	RESENE AUTOMOTIVE & LIGHT INDUSTRIAL	
Address 32-50 Vogel Street Naenae Wellington 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	+612 9186 1132	Not Available

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.

GHS label elements		
using GHS/HSNO criteria	3.1B, 6.1D (inhalation), 6.5A (respiratory), 6.5B (contact), 6.6A, 6.7A, 6.8A, 6.9 (respiratory), 9.1C (fish)	
Determined by Chemwatch	······································	
Legend:	1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ ; 3. Classification drawn from EC Directive 1272/2008 - Annex VI	
GHS Classification ^[1]	Flammable Liquid Category 2, Acute Toxicity (Inhalation) Category 4, Respiratory Sensitizer Category 1, Skin Sensitizer Category 1, Germ Cell Mutagen Category 1B, Carcinogen Category 1B, Reproductive Toxicity Category 1B, STOT - SE (Resp. Irr.) Category 3, Chronic Aquatic Hazard Category 3	

Hazard statement(s)

H225	Highly flammable liquid and vapour	
H332	Harmful if inhaled	
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled	
H317	May cause an allergic skin reaction	
H340	May cause genetic defects	
H350	May cause cancer	
H360	May damage fertility or the unborn child	
H335	May cause respiratory irritation	
H412	Harmful to aquatic life with long lasting effects	
Precautionary statement(s	recautionary statement(s) Prevention	
P201	Obtain special instructions before use.	
Precautionary statement(s) Response		

P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Precautionary statement(s)) Storage
P403+P235	Store in a well-ventilated place. Keep cool.

Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised chemical landfill or if organic to high temperature incineration

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
108-88-3	5-10	toluene
108-65-6	20-40	propylene glycol monomethyl ether acetate, alpha-isomer
28182-81-2	40-60	hexamethylene diisocyanate polymer
64742-95-6	2-5	naphtha petroleum, light aromatic solvent

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 furnes 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, without delay. Following uptake by inhalation, move person to an area free from risk of further exposure. Oxygen or artificial respiration should be administered as needed. Asthmatic-type symptoms may develop and may be immediate or delayed up to several hours. Treatment is essentially symptomatic. A physician should be consulted.
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. 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

Any material aspirated during vomiting may produce lung injury. Therefore emesis should not be induced mechanically or pharmacologically. Mechanical means should be used if it is considered necessary to evacuate the stomach contents; these include gastric lavage after endotracheal intubation. If spontaneous vomiting has occurred after ingestion, the patient should be monitored for difficult breathing, as adverse effects of aspiration into the lungs may be delayed up to 48 hours. for simple esters:

BASIC TREATMENT

- Establish a patent airway with suction where necessary.
- Watch for signs of respiratory insufficiency and assist ventilation as necessary.
- Administer oxygen by non-rebreather mask at 10 to 15 l/min.
- Monitor and treat, where necessary, for pulmonary oedema .
- Monitor and treat, where necessary, for shock.
- DO NOT use emetics. Where ingestion is suspected rinse mouth and give up to 200 ml water (5 ml/kg recommended) for dilution where patient is able to swallow, has a strong gag reflex and does not drool.
- Give activated charcoal.

ADVANCED TREATMENT

- · Consider orotracheal or nasotracheal intubation for airway control in unconscious patient or where respiratory arrest has occurred
- Positive-pressure ventilation using a bag-valve mask might be of use.
- Monitor and treat, where necessary, for arrhythmias.
- Start an IV D5W TKO. If signs of hypovolaemia are present use lactated Ringers solution. Fluid overload might create complications.
- Drug therapy should be considered for pulmonary oedema.
- + Hypotension with signs of hypovolaemia requires the cautious administration of fluids. Fluid overload might create complications.
- Treat seizures with diazepam.
- Proparacaine hydrochloride should be used to assist eye irrigation.

EMERGENCY DEPARTMENT

- Laboratory analysis of complete blood count, serum electrolytes, BUN, creatinine, glucose, urinalysis, baseline for serum aminotransferases (ALT and AST), calcium, phosphorus and magnesium, may assist in establishing a treatment regime. Other useful analyses include anion and osmolar gaps, arterial blood gases (ABGs), chest radiographs and electrocardiograph.
- Positive end-expiratory pressure (PEEP)-assisted ventilation may be required for acute parenchymal injury or adult respiratory distress syndrome.
- Consult a toxicologist as necessary.

BRONSTEIN, A.C. and CURRANCE, P.L. EMERGENCY CARE FOR HAZARDOUS MATERIALS EXPOSURE: 2nd Ed. 1994

- For sub-chronic and chronic exposures to isocyanates
- This material may be a potent pulmonary sensitiser which causes bronchospasm even in patients without prior airway hyperreactivity.
- · Clinical symptoms of exposure involve mucosal irritation of respiratory and gastrointestinal tracts
- Conjunctival irritation, skin inflammation (erythema, pain vesiculation) and gastrointestinal disturbances occur soon after exposure.
- Pulmonary symptoms include cough, burning, substernal pain and dyspnoea.
- Some cross-sensitivity occurs between different isocyanates.
- Noncardiogenic pulmonary oedema and bronchospasm are the most serious consequences of exposure. Markedly symptomatic patients should receive oxygen, ventilatory support and an intravenous line.
- Treatment for asthma includes inhaled sympathomimetics (epinephrine [adrenalin], terbutaline) and steroids.
- Activated charcoal (1 g/kg) and a cathartic (sorbitol, magnesium citrate) may be useful for ingestion.
- Mydriatics, systemic analgesics and topical antibiotics (Sulamyd) may be used for corneal abrasions
- There is no effective therapy for sensitised workers.

[Ellenhorn and Barceloux; Medical Toxicology]

NOTE: Isocyanates cause airway restriction in naive individuals with the degree of response dependant on the concentration and duration of exposure. They induce smooth muscle contraction which leads to bronchoconstrictive episodes. Acute changes in lung function, such as decreased FEV1, may not represent sensitivity.

[Karol & Jin, Frontiers in Molecular Toxicology, pp 56-61, 1992]

Personnel who work with isocyanates, isocyanate prepolymers or polyisocyanates should have a pre-placement medical examination and periodic examinations thereafter, including a pulmonary function test. Anyone with a medical history of chronic respiratory disease, asthmatic or bronchial attacks, indications of allergic responses, recurrent eczema or sensitisation conditions of the skin should not handle or work with isocyanates. Anyone who develops chronic respiratory distress when working with isocyanates should be removed from exposure and examined by a physician. Further exposure must be avoided if a sensitivity to isocyanates or polyisocyanates has developed.

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

Fire/Explosion Hazard

• Small quantities of water in contact with hot liquid may react violently with generation of a large volume of rapidly expanding hot sticky semi-solid 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.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Liquid and vapour are highly flammable.

Minor Spills	► Remove all ignition sources.	
Major Spills	Liquid Isocyanates and high isocyanate vapour concentrations will penetrate seals on self contained breathing apparatus - SCBA should be used inside encapsulating suit where this exposure may occur.	
	Personal Protective Equipment advice is contained in Section 8 of the MSDS.	

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

Safe handling	 Containers, even those that have been emptied, may contain explosive vapours.
Other information	for commercial quantities of isocyanates: ► Isocyanates should be stored in adequately bunded areas.

Suitable container	Packing as supplied by manufacturer.
Storage incompatibility	 Toluene: reacts violently with strong oxidisers, bromine, bromine trifluoride, chlorine, hydrochloric acid/ sulfuric acid mixture, 1,3-dichloro-5,5-dimethyl-2,4-imidazolidindione, dinitrogen tetraoxide, fluorine, concentrated nitric acid, nitrogen dioxide, silver chloride, sulfur dichloride, uranium fluoride, vinyl acetate forms explosive mixtures with strong acids, strong oxidisers, silver perchlorate, tetranitromethane is incompatible with bis-toluenediazo oxide attacks some plastics, rubber and coatings may generate electrostatic charges, due to low conductivity, on flow or agitation.

PACKAGE MATERIAL INCOMPATIBILITIES

Not Available

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)	toluene	Toluene	188 mg/m3 / 50 ppm	Not Available	Not Available	Skin absorption
New Zealand Workplace Exposure Standards (WES)	hexamethylene diisocyanate polymer	lsocyanates, all, (as -NCO)	0.02 mg/m3	0.07 mg/m3	Not Available	Sensitiser; These values apply to all isocyanates, including prepolymers, present in the workplace air as vapours, mist or dust.

EMERGENCY LIMITS

Ingredient	Material name		TEEL-1	TEEL-2	TEEL-3
toluene	Toluene		Not Available	Not Available	Not Available
propylene glycol monomethyl ether acetate, alpha-isomer	Propylene glycol monomethyl ether acetate, alpha-isomer; (1-Methoxypropyl-2-acetate)		Not Available	Not Available	Not Available
hexamethylene diisocyanate polymer	Hexamethylene diisocyanate polymer		7.8 mg/m3	86 mg/m3	510 mg/m3
naphtha petroleum, light aromatic solvent	Aromatic hydrocarbon solvents; (High flash naphtha distillates; Solvent naphtha (petroleum), light aromatic)			34 ppm	410 ppm
Ingredient	Original IDLH Revised IDLH				
toluene	2,000 ppm	500 ppm			
propylene glycol monomethyl ether acetate, alpha-isomer	Not Available	Not Available			
hexamethylene diisocyanate polymer	Not Available	Not Available			
naphtha petroleum, light aromatic solvent	Not Available	Not 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	 NOTE: ► The material may produce skin sensitisation in predisposed individuals.
Body protection	See Other protection below
Other protection	Employees working with confirmed human carcinogens should be provided with, and be required to wear, clean, full body protective clothing (smocks, coveralls, or long-sleeved shirt and pants), shoe covers and gloves prior to entering the regulated area.
Thermal hazards	Not Available
merniarnazarus	

Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the: **"Forsberg Clothing Performance Index".** The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

RALI ACRYTHANE HARDENER FAST

Material

CPI

Respiratory protection

Type A-P Filter of sufficient capacity.

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum	Half-Face	Full-Face	Powered Air
Protection Factor	Respirator	Respirator	Respirator

PE/EVAL/PE	А
PVA	А
TEFLON	В
BUTYL	С
BUTYL/NEOPRENE	С
CPE	С
HYPALON	С
NATURAL RUBBER	С
NEOPRENE	С
NEOPRENE/NATURAL	С
NITRILE	С
NITRILE+PVC	С
PE	С
PVC	С
SARANEX-23	С
SARANEX-23 2-PLY	С
VITON	С
VITON/BUTYL	С
VITON/CHLOROBUTYL	С
VITON/NEOPRENE	С

up to 10 x ES	A-AUS / Class 1 P2	-	A-PAPR-AUS / Class 1 P2
up to 50 x ES	Air-line*	-	-
up to 100 x ES	-	A-3 P2	-
100+ x ES	-	Air-line**	-

* - Continuous-flow; ** - Continuous-flow or positive pressure demand

 $\begin{array}{l} \mathsf{A}(\mathsf{All classes}) = \mathsf{Organic vapours}, \mathsf{B} \ \mathsf{AUS or} \ \mathsf{B1} = \mathsf{Acid gasses}, \ \mathsf{B2} = \mathsf{Acid gas or hydrogen} \\ \mathsf{cyanide}(\mathsf{HCN}), \ \mathsf{B3} = \mathsf{Acid gas or hydrogen cyanide}(\mathsf{HCN}), \ \mathsf{E} = \mathsf{Sulfur dioxide}(\mathsf{SO2}), \ \mathsf{G} = \\ \mathsf{Agricultural chemicals}, \ \mathsf{K} = \mathsf{Ammonia}(\mathsf{NH3}), \ \mathsf{Hg} = \mathsf{Mercury}, \ \mathsf{NO} = \mathsf{Oxides of nitrogen}, \ \mathsf{MB} = \\ \mathsf{Methyl bromide}, \ \mathsf{AX} = \mathsf{Low boiling point organic compounds}(\mathsf{below} \ \mathsf{65 degC}) \\ \end{array}$

* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove, a final

selection must be based on detailed observation. -

* Where the glove is to be used on a short term, casual or infrequent basis, factors such as

"feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise

be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Note that all of the monopropylene glycol ethers may exist in two isomeric forms, alpha or beta. Clear liquid with strong solvent odour				
Physical state	Liquid	Relative density (Water = 1)	1.047		
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)	Not Available		
Initial boiling point and boiling range (°C)	56	Molecular weight (g/mol)	Not Available		
Flash point (°C)	15	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)	51		
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	482		

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.				
Ingestion	Accidental ingestion of the material may be damaging to the health of the individual.				
Skin Contact	Skin contact with the material may damage the health of the individual; systemic effects may result following absorption.				
Eye	There is some evidence that material may produce eye irritation	n in some persons and pro	duce eye damage 24 hours c	or more after instillation.	
Chronic	Long-term exposure to respiratory irritants may result in diseas	e of the airways involving o	difficult breathing and related	systemic problems.	
RALI ACRYTHANE	TOXICITY IRRITATION		ΓΙΟΝ		
HARDENER FAST	Not Available	Not Ava	ilable		
	TOVIOTY	10.01			
	Dermal (rabbit) LD50: 12124 mg/kg		(rabbit): 2mg/24h - SEVERE		
teluere	Inhalation (rat) LC50: >26700 ppm/1h		(rabbit):0.87 mg - mild		
toluene	Oral (rat) LD50: 636 mg/kg		(rabbit):100 mg/30sec - mild		
			(rabbit):20 mg/24h-moderate		
	Not Available		(rabbit):500 mg - moderate Available		
		Not	-valiable		
	ΤΟΧΙCΙΤΥ			IRRITATION	
	Dermal (Rabbit) LD50: >5000 mg/kg			* [CCINFO]	
	Dermal (rabbit) LD50: >5000 mg/kg*			Nil reported	
propylene glycol	Inhalation (rat) LC50: 4345 ppm/6h				
nonomethyl ether acetate, alpha-isomer	Intraperitoneal (Mouse) LD50: 750 mg/kg				
	Oral (rat) LD50: 8532 mg/kg				
	Oral (Rat, adult male) LD50: >10000 mg/kg *				
	Not Available			Not Available	
	тохісіту		IRRITATION		
	Dermal (rabbit) LD50: >5000 mg/kg*			a moderato	
	Inhalation (rat) LC50: 18500 mg/m3/1h		Skin (rabbit): 500 mg - mo		
examethylene diisocyanate polymer					
	Oral (rat) LD50: >10000 mg/kg*	Inhalation (Rat) LC50: 390000 mg/m3/4h **			
			Not Available		
	TOXICITY			RRITATION	
naphtha petroleum, light	Inhalation (rat) LC50: >3670 ppm/8 h *		N	il reported	
aromatic solvent	Oral (rat) LD50: >5000 mg/kg *				
				lot Available	

TOLUENE	The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.
PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE, ALPHA-ISOMER	for propylene glycol ethers (PGEs): Typical propylene glycol ethers include propylene glycol n-butyl ether (PnB); dipropylene glycol n-butyl ether (DPnB); dipropylene glycol methyl ether acetate (DPMA); tripropylene glycol methyl ether (TPM). A BASF report (in ECETOC) showed that inhalation exposure to 545 ppm PGMEA (beta isomer) was associated with a teratogenic response in rabbits; but exposure to 145 ppm and 36 ppm had no adverse effects. The beta isomer of PGMEA comprises only 10% of the commercial material, the remaining 90% is alpha isomer. *Shin-Etsu SDS
HEXAMETHYLENE DIISOCYANATE POLYMER	* Bayer SDS ** Ardex SDS
NAPHTHA PETROLEUM, LIGHT AROMATIC SOLVENT	Asthma-like symptoms may continue for months or even years after exposure to the material ceases. * [Devoe] .

RALI ACRYTHANE HARDENER FAST, HEXAMETHYLENE DIISOCYANATE POLYMER	The following information refers to contact allergens as a gro	oup and may not be specific to this p	roduct.
Acute Toxicity	¥	Carcinogenicity	¥
Skin Irritation/Corrosion	0	Reproductivity	¥
Serious Eye Damage/Irritation	0	STOT - Single Exposure	×
Respiratory or Skin sensitisation	*	STOT - Repeated Exposure	0
Mutagenicity	×	Aspiration Hazard	0
		Legend: 🗸	– Data required to make classification available

X - Data available but does not fill the criteria for classification

S – Data Not Available to make classification

CMR STATUS

REPROTOXIN	toluene ILO Chemicals in the electronics industry that have toxic effects on reproduction	
SKIN	toluene New Zealand Workplace Exposure Standards (WES) - Skin	Skin absorption

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

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

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
toluene	LOW (Half-life = 28 days)	LOW (Half-life = 4.33 days)
propylene glycol monomethyl ether acetate, alpha-isomer	LOW	LOW
hexamethylene diisocyanate polymer	HIGH	HIGH

Bioaccumulative potential

Ingredient	Bioaccumulation
toluene	LOW (BCF = 90)
propylene glycol monomethyl ether acetate, alpha-isomer	LOW (LogKOW = 0.56)
hexamethylene diisocyanate polymer	LOW (LogKOW = 7.5795)

Mobility in soil

Ingredient	Mobility
toluene	LOW (KOC = 268)
propylene glycol monomethyl ether acetate, alpha-isomer	HIGH (KOC = 1.838)
hexamethylene diisocyanate polymer	LOW (KOC = 18560000)

SECTION 13 DISPOSAL CONSIDERATIONS

Product / Packaging disposal Containers may still present a chemical hazard/ danger when empty. Ensure that the disposal of material is carried out in accordance with Hazardous Substances (Disposal) Regulations 2001.

SECTION 14 TRANSPORT INFORMATION

Labels Required



HAZCHEM	•3YE
Land transport (UN)	
UN number	1263
Packing group	II Contraction of the second
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)
Environmental hazard	No relevant data
Transport hazard class(es)	Class 3 Subrisk Not Applicable
Special precautions for user	Special provisions 163;367 Limited quantity 5 L

Air transport (ICAO-IATA / DGR)

UN number	1263	
Packing group	1	
UN proper shipping name	Paint (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base); Pain reducing compounds)	t related material (including paint thinning or
Environmental hazard	No relevant data	
Transport hazard class(es)	ICAO/IATA Class3ICAO / IATA SubriskNot ApplicableERG Code3L	
Special precautions for user	Special provisionsA3A72Cargo Only Packing Instructions364Cargo Only Maximum Qty / Pack60 LPassenger and Cargo Packing Instructions353Passenger and Cargo Maximum Qty / Pack5 LPassenger and Cargo Limited Quantity Packing InstructionsY341Passenger and Cargo Limited Maximum Qty / Pack1 L	

Sea transport (IMDG-Code / GGVSee)

UN number	1263		
Packing group	ll		
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)		
Environmental hazard	No relevant data		
Transport hazard class(es)	IMDG Class3IMDG SubriskNot Applicable		
Special precautions for user	EMS Number F-E , S-E Special provisions 163 Limited Quantities 5 L		

Transport in bulk according to Annex II of MARPOL 73 / 78 and the IBC code

Source	Ingredient	Pollution Category
IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk	toluene	Y
IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk	propylene glycol monomethyl ether acetate, alpha-isomer	Z
IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk	naphtha petroleum, light aromatic solvent	Y

SECTION 15 REGULATORY INFORMATION

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

HSR Number	Group Standard	
HSR002669	Surface Coatings and Colourants (Flammable, Toxic [6.7]) Group Standard 2006	
toluene(108-88-3) is found on the following regulatory lists	"New Zealand Inventory of Chemicals (NZIoC)","International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs","New Zealand Workplace Exposure Standards (WES)","New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals"	
propylene glycol monomethyl ether acetate, alpha-isomer(108-65-6) is found on the following regulatory lists	"New Zealand Inventory of Chemicals (NZIoC)","New Zealand Workplace Exposure Standards (WES)","New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals"	
hexamethylene diisocyanate polymer(28182-81-2) is found on the following regulatory lists	"New Zealand Inventory of Chemicals (NZIoC)", "New Zealand Workplace Exposure Standards (WES)", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals"	
naphtha petroleum, light aromatic solvent(64742-95-6) is found on the following regulatory lists	"New Zealand Inventory of Chemicals (NZIoC)", "International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs", "New Zealand Workplace Exposure Standards (WES)"	

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 250 L in containers up to and including 5 L	50 L 50 L

Approved Handler

Subject to Regulation 56 of the Hazardous Substances (Classes 1 to 5 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
6.7A	10 kg or more, if solid 10 L or more, if liquid
3.1B	250 L (when in containers greater than 5 L) 500 L (when in containers up to and including 5 L)

SECTION 16 OTHER INFORMATION

Other information

Ingredients with multiple cas numbers

• .	
Name	CAS No
propylene glycol monomethyl ether acetate, alpha-isomer	108-65-6, 142300-82-1, 84540-57-8
hexamethylene diisocyanate polymer	1192214-73-5, 28182-81-2, 53200-31-0
naphtha petroleum, light aromatic solvent	25550-14-5, 64742-95-6

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.

A list of reference resources used to assist the committee may be found at:

www.chemwatch.net/references

The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

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