## Resene Paints LTD Version No: 2.3

Safety Data Sheet according to the Health and Safety at Work (Hazardous Substances) Regulations 2017

Issue Date: 14/06/2022 Print Date: 14/06/2022 L.GHS.NZL.EN

# SECTION 1 Identification of the substance / mixture and of the company / undertaking

## Product Identifier

Product name	RESENE THINNER NO.4	
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	11162
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## Details of the supplier of the safety data sheet

Registered company name	Resene Paints LTD	
Address	32-50 Vogel Street Wellington 5011 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 7days)	CHEMWATCH EMERGENCY RESPONSE
Emergency telephone numbers	0800 764766	+64 800 700 112
Other emergency telephone numbers	Not Available	+61 3 9573 3188

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

Classification <sup>[1]</sup>	Classification [1] Specific Target Organ Toxicity - Single Exposure (Narcotic Effects) Category 3, Acute Toxicity (Dermal) Category 4, Specific Target Organ - Repeated Exposure Category 2, Flammable Liquids Category 2, Acute Toxicity (Oral) Category 4, Skin Corrosion/Irritation Category 2, S Eye Damage/Eye Irritation Category 2, Reproductive Toxicity Category 2, Aspiration Hazard Category 1, Hazardous to the Aquatic Enviro Long-Term Hazard Category 4	
Legend:	1. Classified by Chernwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI	
Determined by Chemwatch using GHS/HSNO criteria	3 1B 6 1D (dermal) 6 1D (oral) 6 1E (aspiration) 6 3A 6 4A 6 8B 6 9B 9 1D	

Label elements

Hazard pictogram(s)	
Signal word	Danger

Hazard statement(s)

H336	May cause drowsiness or dizziness.	
H312	Harmful in contact with skin.	
H373	May cause damage to organs through prolonged or repeated exposure. (Oral, Dermal)	
H225	Highly flammable liquid and vapour.	
H302	H302 Harmful if swallowed.	
H315	Causes skin irritation.	

H319	Causes serious eye irritation.	
H361	Suspected of damaging fertility or the unborn child.	
H304	May be fatal if swallowed and enters airways.	
H413	May cause long lasting harmful effects to aquatic life.	

#### Precautionary statement(s) Prevention

Precautionary statement(s) Prevention		
P201	Obtain special instructions before use.	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	
P260	Do not breathe mist/vapours/spray.	
P271	Use only a well-ventilated area.	
P280	Near protective gloves, protective clothing, eye protection and face protection.	
P240	Ground and bond container and receiving equipment.	
P241	Use explosion-proof electrical/ventilating/lighting/intrinsically safe equipment.	
P242	Use non-sparking tools.	
P243	Take action to prevent static discharges.	
P264	Wash all exposed external body areas thoroughly after handling.	
P270	Do not eat, drink or smoke when using this product.	
P273	Avoid release to the environment.	

## Precautionary statement(s) Response

P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician/first aider.		
P331	Do NOT induce vomiting.		
P308+P313	IF exposed or concerned: Get medical advice/ attention.		
P370+P378	In case of fire: Use alcohol resistant foam or normal protein foam to extinguish.		
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
P337+P313	If eye irritation persists: Get medical advice/attention.		
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider if you feel unwell.		
P302+P352	IF ON SKIN: Wash with plenty of water and soap.		
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].		
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.		
P330	Rinse mouth.		
P332+P313	If skin irritation occurs: Get medical advice/attention.		
P362+P364	Take off contaminated clothing and wash it before reuse.		

### Precautionary statement(s) Storage

P403+P235	Store in a well-ventilated place. Keep cool.	
P405	Store locked up.	

## Precautionary statement(s) Disposal

P501

Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

Not Applicable

## **SECTION 3 Composition / information on ingredients**

## Substances

See section below for composition of Mixtures

## Mixtures

CAS No	%[weight]	Name
67-63-0	10-15	isopropanol
107-98-2	15-30	propylene glycol monomethyl ether - alpha isomer
1330-20-7	20-60	xvlene
108-94-1	1-10	cyclohexanone
123-86-4	5-20	n-butyl acetate
Legend:	Classified by Chernwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI;     A. Classification drawn from C&L * EU IOELVs available	

## **SECTION 4 First aid measures**

Description of first aid measur	es
Eye Contact	If this product comes in contact with the eyes:

	<ul> <li>Wash out immediately with fresh running water.</li> <li>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.</li> </ul>
	<ul> <li>Seek medical attention without delay if pain persists or recurs.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
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.
Ingestion	<ul> <li>If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus.</li> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Seek medical advice.</li> </ul>

## Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

# **SECTION 5 Firefighting measures**

#### Extinguishing media

Alcohol stable foam.

## Special hazards arising from the substrate or mixture

Fire Incompatibility	Avoid contamination with oxidising agents	
Advice for firefighters		
Fire Fighting	Alert Fire Brigade and tell them location and nature of hazard.	
Fire/Explosion Hazard	<ul> <li>Liquid and vapour are highly flammable.</li> <li>Combustion products include:</li> <li>carbon dioxide (CO2)</li> <li>other pyrolysis products typical of burning organic material.</li> </ul>	

#### **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. Contain spill with inert non- combustible absorbent then place in suitable, labelled container for waste disposal. Wipe up. Clean area with large quantity of water to complete clean- up.
Major Spills	Remove all ignition sources. Clear area of personnel and move upwind. Wear appropriate personnel protective equipment and clothing to prevent exposure. Avoid breathing in mists or vapours and skin or eyes contact. Extinguish or remove all sources of ignition and stop leak if safe to do so. Increase ventilation. Evacuate all unprotected personnel. If possible, contain the spill. Place inert absorbent, non- combustible material onto spillage. Use clean non- sparking tools to collect the material and place into suitable labelled containers for subsequent recycling or disposal. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authority.

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

# SECTION 7 Handling and storage

Precautions for safe handling		
Safe handling	<ul> <li>Containers, even those that have been emptied, may contain explosive vapours.</li> <li>Electrostatic discharge may be generated during pumping - this may result in fire.</li> <li>Avoid unnecessary personal contact, including inhalation.</li> <li>DO NOT allow clothing wet with material to stay in contact with skin</li> </ul>	

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## **RESENE THINNER NO.4**

Suitable container	<ul> <li>Packing as supplied by manufacturer.</li> <li>For low viscosity materials (i) : Drums and jerry cans must be of the non-removable head type.</li> </ul>
Storage incompatibility	

## **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)	isopropanol	Isopropyl alcohol	400 ppm / 983 mg/m3	1230 mg/m3 / 500 ppm	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	propylene glycol monomethyl ether - alpha isomer	Propylene glycol monomethyl ether	100 ppm / 369 mg/m3	553 mg/m3 / 150 ppm	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	xylene	Dimethylbenzene	50 ppm / 217 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	cyclohexanone	Cyclohexanone	25 ppm / 100 mg/m3	Not Available	Not Available	(skin)-Skin absorption
New Zealand Workplace Exposure Standards (WES)	n-butyl acetate	n-Butyl acetate	150 ppm / 713 mg/m3	950 mg/m3 / 200 ppm	Not Available	Not Available

#### Emergency Limits

Ingredient	TEEL-1 TEEL-2			TEEL-3
isopropanol	400 ppm	2000* ppm		12000** ppm
propylene glycol monomethyl ether - alpha isomer	100 ppm	160 ppm		660 ppm
xylene	Not Available	Not Available		Not Available
cyclohexanone	60 ppm	830 ppm		5000* ppm
n-butyl acetate	Not Available	Not Available		Not Available
In our dian (			Device of IDLU	
Ingredient	Original IDLH		Revised IDLH	
isopropanol	2,000 ppm		Not Available	
propylene glycol monomethyl ether - alpha isomer	Not Available		Not Available	
xylene	900 ppm		Not Available	
cyclohexanone	700 ppm		Not Available	

# n-butyl acetate MATERIAL DATA

IFRA Prohibited Fragrance Substance

The International Fragrance Association (IFRA) Standards form the basis for the globally accepted and recognized risk management system for the safe use of fragrance ingredients and are part of the IFRA Code of Practice.

Not Available

For cyclohexanone

Odour Threshold Value: 0.12 ppm (detection and recognition)

Exposure at the TLV-TWA produces minimal irritation and this limit is significantly lower than the concentration reported to just induce demonstrable changes in the liver and kidneys of rabbits repeatedly exposed to the substance (190 ppm).

These exposure guidelines have been derived from a screening level of risk assessment and should not be construed as unequivocally safe limits.

Exposed individuals are NOT reasonably expected to be warned, by smell, that the Exposure Standard is being exceeded.

For n-butyl acetate

1,700 ppm

Odour Threshold Value: 0.0063 ppm (detection), 0.038-12 ppm (recognition) Exposure at or below the recommended TLV-TWA is thought to prevent significant irritation of the eyes and respiratory passages as well as narcotic effects.

for propylene glycol monomethyl ether (PGME)

Odour Threshold: 10 ppm.

Odour Threshold Value: 3.3 ppm (detection), 7.6 ppm (recognition)

Exposure at or below the recommended isopropanol TLV-TWA and STEL is thought to minimise the potential for inducing narcotic effects or significant irritation of the eyes or upper respiratory tract.

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.

#### 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
	Continued

Hands/feet protection	<ul> <li>Wear chemical protective gloves, e.g. PVC.</li> <li>NOTE:         <ul> <li>The material may produce skin sensitisation in predisposed individuals.</li> <li>For esters:                 <ul> <li>Do NOT use natural rubber, butyl rubber, EPDM or polystyrene-containing materials.</li> <li>The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer.</li> </ul> </li> </ul> </li> </ul>
Body protection	See Other protection below
Other protection	<ul> <li>Overalls.</li> <li>Some plastic personal protective equipment (PPE) (e.g. gloves, aprons, overshoes) are not recommended as they may produce static electricity.</li> </ul>

### **Respiratory protection**

Respiratory protection required in insufficiently ventilated working areas and during spraying. An approved respirator with a replaceable vapour/ mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Reference should be made to AS/NZS 1715 Standard, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716 Standard, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances. Recommended filter type: Type A filter (organic vapour).

## **SECTION 9 Physical and chemical properties**

## Information on basic physical and chemical properties

Appearance	Colourless clear liquid with characteristic odour		
Physical state	Liquid	Relative density (Water = 1)	0.873
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)	126	Molecular weight (g/mol)	Not Available
Flash point (°C)	22	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)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (Not Available%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	873

## **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

Evidence shows, or practical experience predicts, that the material produces irritation of the respiratory system, in a substantial number of individuals, following inhalation. Inhalation hazard is increased at higher temperatures.

Acute effects from depression - char. The odour of isop         Headache, fatigue of xylene overexp Inhalation of aero         Ingestion         Swallowing of the pneumonitis; serie Effects on the ner         Skin contact         Skin contact         Skin contact         Skin contact         Figure and the material may most liquid alcoho Toxic amounts of may result in drow Open cuts, abrade Entry into the bloc The material prod the produces mod + produces sign being present         Eye       The liquid produce Evidence exists, of may produce sign	cterised by headache and dizziness, incre- ppanol may give some warning of exposur lassitude, irritability and gastrointestinal of sure. 	ased reaction tim e, but odour fatigu- isturbances (e.g., ial during the cou- e lungs with the r higher aliphatic a ts may result folk dition humans. ME) may be absor- this material ions, puncture wo ts, or practical ex- tial number of ind pplied to the heal the exposure per- able of causing pri- terial may cause	ae may occur. nausea, anorexia and flatulence) are the most common symptoms rise of normal handling, may be harmful. isk of haemorrhaging, pulmonary oedema, progressing to chemical ilcohols. inverse absorption. ribed through the skin following extensive prolonged contact ; this reperience predicts, that the material either ividuals following direct contact, and/or thy intact skin of animals (for up to four hours), such inflammation idd.		
of xylene overexp         Industion         Ingestion         Swallowing of the pneumonitis; serie Effects on the ner         Skin contact         Skin contact         Skin Contact         Skin Contact         Produces mod         Produces sign being present         Eye         The liquid produce sign may produce sign         Long-term exposed	sure. ols (mists, fumes), generated by the material iquid may cause aspiration of vomit into the us consequences may result. ous system characterise over-exposure to the material may be harmful; systemic effec- incentuate any pre-existing dermatitis con s appear to act as primary skin irritants in or propylene glycol monomethyl ether (PG siness. d or irritated skin should not be exposed to d-stream through, for example, cuts, abras- ces moderate skin irritation; evidence exis- erate inflammation of the skin in a substar- ficant, but moderate, inflammation when a wenty-four hours or more after the end of s a high level of eye discomfort and is cap- practical experience predicts, that the ma- icant ocular lesions which are present two	ial during the cou e lungs with the r higher aliphatic a ts may result folk dition numans. ME) may be abso this material ions, puncture wo ts, or practical ex tial number of ind pplied to the heal the exposure per able of causing pr terial may cause	rse of normal handling, may be harmful. isk of haemorrhaging, pulmonary oedema, progressing to chemical ilcohols. wing absorption. rbed through the skin following extensive prolonged contact ; this punds or lesions, may produce systemic injury with harmful effects. perience predicts, that the material either ividuals following direct contact, and/or thy intact skin of animals (for up to four hours), such inflammation od.		
Ingestion       pneumonitis; serial         Effects on the ner       Effects on the ner         Skin contact       Skin contact with The material may Most liquid alcohe Toxic amounts of may result in drow Open cuts, abrade Entry into the bloc The material prod 	is consequences may result. ous system characterise over-exposure to the material may be harmful; systemic effec- occentuate any pre-existing dermatitis con a appear to act as primary skin irritants in or propylene glycol <u>monomethyl</u> ether (PG siness. d or irritated skin should not be exposed to I-stream through, for example, cuts, abras ces moderate skin irritation; evidence exis erate inflammation of the skin in a substar ficant, but moderate, inflammation when a wenty-four hours or more after the end of s a high level of eye discomfort and is cap practical experience predicts, that the ma icant ocular lesions which are present two	higher aliphatic a ts may result follo dition numans. ME) may be abso this material ions, puncture wo ts, or practical ex tial number of ind pplied to the heal the exposure per able of causing pi terial may cause	Ilcohols. rbed through the skin following extensive prolonged contact ; this runds or lesions, may produce systemic injury with harmful effects. perience predicts, that the material either ividuals following direct contact, and/or thy intact skin of animals (for up to four hours), such inflammation od.		
Skin Contact       The material may Most liquid alcoho Toxic amounts of may result in drow Open cuts, abrade Entry into the bloc The material prod         Entry into the bloc The material prod       P produces mod         P produces sign being present       The liquid produce sign may produce sign         Long-term exposed       Long-term exposed	accentuate any pre-existing dermatitis con s appear to act as primary skin irritants in or propylene glycol <u>monomethyl</u> ether (PG siness. d or irritated skin should not be exposed to d-stream through, for example, cuts, abras ces moderate skin irritation; evidence exis erate inflammation of the skin in a substar ficant, but moderate, inflammation when a wenty-four hours or more after the end of s a high level of eye discomfort and is cap practical experience predicts, that the ma icant ocular lesions which are present twe	dition numans. ME) may be absor- this material ions, puncture wo ts, or practical ex- tial number of ind pplied to the heal the exposure per- able of causing pri- terial may cause	rbed through the skin following extensive prolonged contact ; this bunds or lesions, may produce systemic injury with harmful effects. perience predicts, that the material either ividuals following direct contact, and/or thy intact skin of animals (for up to four hours), such inflammation iod.		
Eye         Evidence exists, c may produce sign           Long-term exposu	practical experience predicts, that the main icant ocular lesions which are present two	terial may cause	ain and severe conjunctivitis.		
	o to roopirotony initanto managemente in the	The liquid produces a high level of eye discomfort and is capable of causing pain and severe conjunctivitis. Evidence exists, or practical experience predicts, that the material may cause severe 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 Practical experient individuals, and/o Toxic: danger of s Serious damage ( repeated or profor Limited evidence biochemical syste Studies with some and kidney functic Long term cyclohe Long term, or repu	Long-term exposure to respiratory irritants may result in disease of the airways involving difficult breathing and related systemic problems. On the basis, primarily, of animal experiments, concern has been expressed that the material may produce carcinogenic or mutagenic effects; in respect of the available information, however, there presently exists inadequate data for making a satisfactory assessment. Practical experience shows that skin contact with the material is capable either of inducing a sensitisation reaction in a substantial number of individuals, and/or of producing a positive response in experimental animals. Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed. Serious damage (clear functional disturbance or morphological change which may have toxicological significance) is likely to be caused by repeated or prolonged exposure. Limited evidence suggests that repeated or long-term occupational exposure may produce cumulative health effects involving organs or biochemical systems. Studies with some glycol ethers (principally the monoethylene glycols) and their esters indicate reproductive changes, testicular atrophy, infertilit and kidney function changes. Long term, or repeated exposure of isopropanol may cause inco-ordination and tiredness. Prolonged or repeated contact with xylenes may cause defatting dermatitis with drying and cracking.				
ΤΟΧΙΟΙΤΥ		IDD	TATION		
RESENE THINNER NO.4 Not Available			Available		
ΤΟΧΙΟΙΤΥ		IF	RITATION		
	050: 12800 mg/kg <sup>[2]</sup>		RRITATION ye (rabbit): 10 mg - moderate		
Dermal (rabbit) L	050: 12800 mg/kg <sup>[2]</sup> J LC50; 53 mg/L4h <sup>[2]</sup>	E			
Dermal (rabbit) L isopropanol Inhalation(Mouse		E	ye (rabbit): 10 mg - moderate		
Dermal (rabbit) L isopropanol Inhalation(Mouse	LC50; 53 mg/L4h <sup>[2]</sup>	E	ye (rabbit): 10 mg - moderate ye (rabbit): 100 mg - SEVERE		
Dermal (rabbit) L isopropanol Inhalation(Mouse	LC50; 53 mg/L4h <sup>[2]</sup>	E E S	ye (rabbit): 10 mg - moderate ye (rabbit): 100 mg - SEVERE ye (rabbit): 100mg/24hr-moderate		
isopropanol Dermal (rabbit) L Inhalation(Mouse) LD Oral (Mouse) LD	LC50; 53 mg/L4h <sup>[2]</sup>	E E S	ye (rabbit): 10 mg - moderate ye (rabbit): 100 mg - SEVERE ye (rabbit): 100mg/24hr-moderate kin (rabbit): 500 mg - mild		
propylene glycol monomethyl broken br	LC50; 53 mg/L4h <sup>[2]</sup> 0; 3600 mg/kg <sup>[2]</sup>	E E S I I R E S	ye (rabbit): 10 mg - moderate ye (rabbit): 100 mg - SEVERE ye (rabbit): 100mg/24hr-moderate kin (rabbit): 500 mg - mild		
isopropanol     Dermal (rabbit) L       inhalation(Mouse)     Oral (Mouse) LD       Oral (Mouse)     D       roxicity     dermal (rat) LD5	LC50; 53 mg/L4h <sup>[2]</sup> 0; 3600 mg/kg <sup>[2]</sup> : >2000 mg/kg <sup>[1]</sup> 250; >6 mg/l4h <sup>[2]</sup>	E E S I I R E S E S	ye (rabbit): 10 mg - moderate ye (rabbit): 100 mg - SEVERE ye (rabbit): 100mg/24hr-moderate kin (rabbit): 500 mg - mild RITATION <i>r</i> e (rabbit) 230 mg mild		
isopropanol       Dermal (rabbit) L         inhalation(Mouse)       Oral (Mouse) LD         Oral (Mouse) LD       TOXICITY         dermal (rat) LD5       Inhalation(Rat) L	LC50; 53 mg/L4h <sup>[2]</sup> 0; 3600 mg/kg <sup>[2]</sup> : >2000 mg/kg <sup>[1]</sup> 250; >6 mg/l4h <sup>[2]</sup>	E E S F F F F F F F F F	ye (rabbit): 10 mg - moderate ye (rabbit): 100 mg - SEVERE ye (rabbit): 100mg/24hr-moderate kin (rabbit): 500 mg - mild RITATION re (rabbit) 230 mg mild re (rabbit) 500 mg/24 h mild		
isopropanol       Dermal (rabbit) L         inhalation(Mouse)       Oral (Mouse) LD         Oral (Mouse) LD       TOXICITY         dermal (rat) LD5       Inhalation(Rat) L	LC50; 53 mg/L4h <sup>[2]</sup> 0; 3600 mg/kg <sup>[2]</sup> : >2000 mg/kg <sup>[1]</sup> 250; >6 mg/l4h <sup>[2]</sup>	E E S F F F F F F F F F	ye (rabbit): 10 mg - moderate ye (rabbit): 100 mg - SEVERE ye (rabbit): 100mg/24hr-moderate kin (rabbit): 500 mg - mild <b>RITATION</b> re (rabbit) 230 mg mild re (rabbit) 500 mg/24 h mild re (rabbit): 100 mg SEVERE kin (rabbit): 500 mg open - mild		
isopropanol     Dermal (rabbit) L       inhalation(Mouse)     Oral (Mouse) LD       Oral (Mouse)     D       propylene glycol monomethyl ether - alpha isomer     TOXICITY       Inhalation(Rat) LD50;     Inhalation(Rat) LD50;       Oral (Rat) LD50;     TOXICITY	LC50; 53 mg/L4h <sup>[2]</sup> 0; 3600 mg/kg <sup>[2]</sup> : >2000 mg/kg <sup>[1]</sup> 50; >6 mg/l4h <sup>[2]</sup> 3739 mg/kg <sup>[1]</sup>	E E S S E S E S S S S S S S S S S	ye (rabbit): 10 mg - moderate ye (rabbit): 100 mg - SEVERE ye (rabbit): 100mg/24hr-moderate kin (rabbit): 500 mg - mild <b>RITATION</b> re (rabbit) 230 mg mild re (rabbit) 230 mg mild re (rabbit) 500 mg/24 h mild re (rabbit): 100 mg SEVERE kin (rabbit): 500 mg open - mild		
isopropanol     Dermal (rabbit) L       inhalation(Mouse) LD       Oral (Mouse) LD       oral (Mouse) LD       inhalation(Rat) LD       inhalation(Rat) LD       inhalation(Rat) LD       Oral (Rat) LD50;       inhalation(Rat) LD       Oral (Rat) LD50;       inhalation(Rat) LD50;       inhalation(Rat) LD50;       inhalation(Rat) LD50;       inhalation(Rat) LD50;	LC50; 53 mg/L4h <sup>[2]</sup> 0; 3600 mg/kg <sup>[2]</sup> : >2000 mg/kg <sup>[1]</sup> 250; >6 mg/l4h <sup>[2]</sup> 3739 mg/kg <sup>[1]</sup>	E E E E S S E E S E E S E E S E E E E E	ye (rabbit): 10 mg - moderate ye (rabbit): 100 mg - SEVERE ye (rabbit): 100mg/24hr-moderate kin (rabbit): 500 mg - mild <b>RITATION</b> re (rabbit) 230 mg mild re (rabbit) 230 mg/24 h mild re (rabbit): 100 mg SEVERE cin (rabbit): 100 mg Open - mild <b>TON</b> man): 200 ppm irritant		
isopropanol       Dermal (rabbit) L         inhalation(Mouse)       Oral (Mouse) LD         oral (Mouse)       D         propylene glycol monomethyl ether - alpha isomer       TOXICITY         dermal (rat) LD50       Inhalation(Rat) L         Oral (Rat) LD50       Inhalation(Rat) L         Oral (Rat) LD50       Inhalation(Rat) L         Dermal (rabbit) L       Inhalation(Rat) L	LC50; 53 mg/L4h <sup>[2]</sup> 0; 3600 mg/kg <sup>[2]</sup> : >2000 mg/kg <sup>[1]</sup> 250; >6 mg/l4h <sup>[2]</sup> 3739 mg/kg <sup>[1]</sup> 250; >1700 mg/kg <sup>[2]</sup> 250; 5000 ppm4h <sup>[2]</sup>	E E S S E S E S E S E S S S S S S S S S	ye (rabbit): 10 mg - moderate ye (rabbit): 100 mg - SEVERE ye (rabbit): 100mg/24hr-moderate kin (rabbit): 500 mg - mild <b>RITATION</b> re (rabbit) 230 mg mild re (rabbit) 500 mg/24 h mild re (rabbit): 100 mg SEVERE cin (rabbit): 500 mg open - mild <b>TON</b> man): 200 ppm irritant ubit): 5 mg/24h SEVERE		
isopropanol       Dermal (rabbit) L         inhalation(Mouse)       Oral (Mouse) LD         oral (Mouse)       D         propylene glycol monomethyl ether - alpha isomer       TOXICITY         dermal (rat) LD50       Inhalation(Rat) L         Oral (Rat) LD50       Inhalation(Rat) L         Oral (Rat) LD50       Inhalation(Rat) L         Dermal (rabbit) L       Inhalation(Rat) L	LC50; 53 mg/L4h <sup>[2]</sup> 0; 3600 mg/kg <sup>[2]</sup> : >2000 mg/kg <sup>[1]</sup> 250; >6 mg/l4h <sup>[2]</sup> 3739 mg/kg <sup>[1]</sup>	E E E S E E E E E E E S E S E S E C E C	ye (rabbit): 10 mg - moderate ye (rabbit): 100 mg - SEVERE ye (rabbit): 100mg/24hr-moderate kin (rabbit): 500 mg - mild <b>RITATION</b> re (rabbit) 230 mg mild re (rabbit) 500 mg/24 h mild re (rabbit): 100 mg SEVERE kin (rabbit): 500 mg open - mild <b>TON</b> man): 200 ppm irritant ubit): 5 mg/24h SEVERE bit): 87 mg mild		
isopropanol       Dermal (rabbit) L         inhalation(Mouse)       Oral (Mouse) LD         oral (Mouse)       D         propylene glycol monomethyl ether - alpha isomer       TOXICITY         dermal (rat) LD50       Inhalation(Rat) L         Oral (Rat) LD50       Inhalation(Rat) L         Oral (Rat) LD50       Inhalation(Rat) L         Dermal (rabbit) L       Inhalation(Rat) L	LC50; 53 mg/L4h <sup>[2]</sup> 0; 3600 mg/kg <sup>[2]</sup> : >2000 mg/kg <sup>[1]</sup> 250; >6 mg/l4h <sup>[2]</sup> 3739 mg/kg <sup>[1]</sup> 250; >1700 mg/kg <sup>[2]</sup> 250; 5000 ppm4h <sup>[2]</sup>	Image:	ye (rabbit): 10 mg - moderate ye (rabbit): 100 mg - SEVERE ye (rabbit): 100mg/24hr-moderate kin (rabbit): 500 mg - mild <b>RITATION</b> re (rabbit) 230 mg mild re (rabbit) 500 mg/24 h mild re (rabbit): 100 mg SEVERE cin (rabbit): 100 mg open - mild <b>TON</b> man): 200 ppm irritant ubit): 5 mg/24h SEVERE		

cycloberanone	TOXICITY	IRRITATION
cyclonexanone	Dermal (rabbit) LD50: 948 mg/kg <sup>[2]</sup>	Eye (human): 75 ppm

	Inhalation(Rat) LC50; 8000 ppm4h <sup>[2]</sup>		Eye (rabbit): 0.25 mg/24h SEVERE
	Oral (Rat) LD50; 1535 mg/kg <sup>[2]</sup>		Eye (rabbit): 4.74 mg SEVERE
			Skin (rabbit): 500 mg(open) mild
	ΤΟΧΙΟΙΤΥ	IRRITATIO	DN
	Dermal (rabbit) LD50: 3200 mg/kg <sup>[2]</sup>	Eye ( hum	an): 300 mg
	Inhalation(Rat) LC50; 0.74 mg/l4h <sup>[2]</sup>	Eye (rabbi	t): 20 mg (open)-SEVERE
n-butyl acetate	Oral (Rabbit) LD50; 3200 mg/kg <sup>[2]</sup>	Eye (rabbit): 20 mg/24h - moderate	
		Eye: no ac	dverse effect observed (not irritating) <sup>[1]</sup>
		Skin (rabb	it): 500 mg/24h-moderate
		Skin: no a	dverse effect observed (not irritating) <sup>[1]</sup>
Legend:	<ol> <li>Value obtained from Europe ECHA Registered \$ specified data extracted from RTECS - Register of</li> </ol>		city 2.* Value obtained from manufacturer's SDS. Unless otherwise

<b>RESENE THINNER NO.4</b>	Exposure to the material may result in a possible risk of irreversible effects. The following information refers to contact allergens as a group and may not be specific to t	his product.			
ISOPROPANOL	For isopropanol (IPA): Acute toxicity: Isopropanol has a low order of acute toxicity.				
PROPYLENE GLYCOL MONOMETHYL ETHER - ALPHA ISOMER	NOTE: For PGE - mixed isomers: Exposure of pregnant rats and rabbits to the substance did not give rise to teratogenic effects at concentrations up to 3000 ppm.				
XYLENE	Reproductive effector in rats				
CYCLOHEXANONE	Cyclohexanone: Acute toxicity: Cyclohexanone exhibits low to slight acute toxicity by the oral and inhalation routes and is moderately toxic by the dermal route.				
RESENE THINNER NO.4 & ISOPROPANOL	Asthma-like symptoms may continue for months or even years after exposure to the material ends.				
RESENE THINNER NO.4 & PROPYLENE GLYCOL MONOMETHYL ETHER - 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). Testing of a wide variety of propylene glycol ethers Testing of a wide variety of propylene glycol ethers has shown that propylene glycol-based ethers are less toxic than some ethers of the ethylene series.				
RESENE THINNER NO.4 & N-BUTYL ACETATE	Generally, linear and branched-chain alkyl esters are hydrolysed to their component alcohols and carboxylic acids in the intestinal tract, blood and most tissues throughout the body.				
ISOPROPANOL & XYLENE & CYCLOHEXANONE & N-BUTYL ACETATE	The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic).				
ISOPROPANOL & XYLENE & CYCLOHEXANONE	The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limited in animal testing.				
XYLENE & CYCLOHEXANONE & N-BUTYL ACETATE	The material may produce severe irritation to the eye causing pronounced inflammation.				
Acute Toxicity	✓ Carcinogenicity	×			
Skin Irritation/Corrosion	✓ Reproductivity	¥			
Serious Eye Damage/Irritation	✓ STOT - Single Exposure	×			
Respiratory or Skin sensitisation	X STOT - Repeated Exposure	✓			
	X Aspiration Hazard				

# **SECTION 12 Ecological information**

RESENE THINNER NO.4	Endpoint	Test Duration (hr)		Species	Value		Source
	Not Available			Not Available Not Available			Not Available
	Endpoint	Test Duration (hr)	Spec	ies		Value	Source
	EC50	72h	Algae	e or other aquatic plants		>1000mg	/I 1
	EC50(ECx)	24h	Algae	e or other aquatic plants		0.011mg/l	L 4
isopropanol	EC50	48h	Crus	tacea		7550mg/l	4
	EC50	96h	Algae or other aquatic plants			>1000mg	/I 1
	LC50	96h	Fish			4200mg/l	4

	Endpoint	Test Duration (hr)	Species	•	Value		Source	
propylene glycol monomethyl ether - alpha isomer	EC50	72h	Algae or	other aquatic plants	>500m	g/l	2	
	EC50(ECx)	168h	Algae or	other aquatic plants	>1000	mg/l	1	
	EC50	48h	Crustace	ea	23300	mg/l	1	
	EC50	96h	Algae or	other aquatic plants	>1000	mg/l	2	
	LC50	96h	Fish		>2000	>2000mg/l Not A		
	Endneint	Test Durstian (br)	6-			Value	Source	
	Endpoint	Test Duration (hr)		ecies			2	
	EC50	72h				4.6mg/l		
xylene	NOEC(ECx)	73h		gae or other aquatic plants		0.44mg/l	2	
	EC50	48h		ustacea		1.8mg/l	2	
	LC50	96h	Fis	h		2.6mg/l	2	
	Endpoint	Test Duration (hr)	Specie	S	Valu	ie	Source	
	EC50	72h	Algae	or other aquatic plants	17.7	-85.6mg/l	4	
cyclohexanone	EC10(ECx)	72h	Algae or other aquatic plants		0.4-	0.4-7.93mg/l		
	EC50	48h	Crustacea			>100mg/l		
	LC50	96h	Fish			527-732mg/l		
							· · · · · · · · · · · · · · · · · · ·	
	Endpoint	Test Duration (hr)	Sp	ecies		Value	Source	
	EC50	72h	Alg	ae or other aquatic plants		246mg/l	2	
n-butyl acetate	EC50(ECx)	96h	Fish			18mg/l	2	
	EC50	48h Crustacea		istacea		32mg/l	1	
	LC50	96h	96h Fish			18mg/l	2	
Legend:	Ecotox database			ered Substances - Ecotoxicolog azard Assessment Data 6. NITE				
IOT allow product to come in co Propylene Glycol Ethers: log Ko Aromatic Substances Series:	ontact with surface to ow's range from 0.3( larly complex polycy		low the mean h	igh water mark. sistent in the environment longe	r than smaller	PAHs.		

Based on calculated results from a lever 1 fugacity model, IPA is expected to partition primarily to the aquatic compartment (77.7%) with the remainder to the air (22.3%). For cyclohexanone:

Koc : 10 Half-life (hr) air : 24-100 Half-life (hr) H2O surface water : 74-100 Henry's atm m3 /mol: 1.20E-05 BOD 5 : 1.232,32% COD : 100% ThOD : 2.605 log BCF : 0.39 Bioaccumulation : not sig Degradation Biological: sig processes Abiotic: RxnOH\*,oxid&hydrl&photl notsig Environmental fate;

Cyclohexanone degrades rapidly by reaction with sunlight and is biodegradable in water.

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. For Glycol Ethers:

Environmental Fate: Several glycol ethers have been shown to biodegrade however; biodegradation slows as molecular weight increases.

For Ketones: Ketones, unless they are alpha, beta--unsaturated ketones, can be considered as narcosis or baseline toxicity compounds.

For n-Butyl Acetate: Koc: ~200; log Kow: 1.78; Half-life (hr) air: 144; Half-life (hr) H2O surface water: 178 - 27156; Henry's atm: m3 /mol: 3.20E-04 BOD 5 if unstated: 0.15-1.02,7%; COD: 78%; ThOD: 2.207;

#### BCF : 4-14. DO NOT discharge into sewer or waterways.

## Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
isopropanol	LOW (Half-life = 14 days)	LOW (Half-life = 3 days)
propylene glycol monomethyl ether - alpha isomer	LOW (Half-life = 56 days)	LOW (Half-life = 1.7 days)
xylene	HIGH (Half-life = 360 days)	LOW (Half-life = 1.83 days)
cyclohexanone	LOW	LOW
n-butyl acetate	LOW	LOW

#### Bioaccumulative potential

Ingredient	Bioaccumulation
isopropanol	LOW (LogKOW = 0.05)
propylene glycol monomethyl ether - alpha isomer	LOW (BCF = 2)
xylene	MEDIUM (BCF = 740)
cyclohexanone	LOW (BCF = 2.45)
n-butyl acetate	LOW (BCF = 14)

# Mobility in soil

Ingredient	Mobility
isopropanol	HIGH (KOC = 1.06)
propylene glycol monomethyl ether - alpha isomer	HIGH (KOC = 1)
cyclohexanone	LOW (KOC = 15.15)
n-butyl acetate	LOW (KOC = 20.86)

## **SECTION 13 Disposal considerations**

#### Waste treatment methods

Product / Packaging disposal	<ul> <li>Containers may still present a chemical hazard/ danger when empty.</li> <li>Legislation addressing waste disposal requirements may differ by country, state and/ or territory.</li> <li>DO NOT allow wash water from cleaning or process equipment to enter drains.</li> <li>Recycle wherever possible.</li> <li>Consult manufacturer for recycling option.</li> <li>Resene Paintwise accepts residual unwanted paint and packaging. See Resene website for Paintwise information. Or contact a Local Authority for the disposal information. Do not discharge the substance into the environment.</li> </ul>
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Ensure that the hazardous substance is disposed in accordance with the Hazardous Substances (Disposal) Notice 2017

#### **Disposal Requirements**

Packages that have been in direct contact with the hazardous substance must be only disposed if the hazardous substance was appropriately removed and cleaned out from the package.

### **SECTION 14 Transport information**

## Labels Required

Marine Pollutant	NO
HAZCHEM	•3YE

Land transport (UN)

UN number	1263					
UN proper shipping name	INT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL cluding paint thinning or reducing compound)					
Transport hazard class(es)	Class     3       Subrisk     Not Applicable					
Packing group	Ш					
Environmental hazard	Not Applicable					

Special processions for user	Special provisions	163; 367
Special precautions for user	Limited quantity	5 L

## Air transport (ICAO-IATA / DGR)

UN number	1263			
UN proper shipping name	Paint related material (in	cluding paint thinning or reducing comp	ounds)	
	ICAO/IATA Class	3		
Transport hazard class(es)	ICAO / IATA Subrisk	Not Applicable		
	ERG Code	3L		
Packing group	Ш			
Environmental hazard	Not Applicable			
	Special provisions		A3 A72 A192	
	Cargo Only Packing Instructions		364	
	Cargo Only Maximum Qty / Pack		60 L	
		QIY / Pack	00 L	
Special precautions for user	Passenger and Cargo	•	353	
Special precautions for user		Packing Instructions		
Special precautions for user	Passenger and Cargo Passenger and Cargo	Packing Instructions	353	

# Sea transport (IMDG-Code / GGVSee)

UN number	1263	
UN proper shipping name		nt, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL ing or reducing compound)
Transport hazard class(es)		3 Not Applicable
Packing group	П	
Environmental hazard	Not Applicable	
Special precautions for user	EMS Number Special provisions Limited Quantities	

Transport in bulk according to Annex II of MARPOL and the IBC code Not Applicable

### Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
isopropanol	Not Available
propylene glycol monomethyl ether - alpha isomer	Not Available
xylene	Not Available
cyclohexanone	Not Available
n-butyl acetate	Not Available

## Transport in bulk in accordance with the ICG Code

Product name	Ship Type
isopropanol	Not Available
propylene glycol monomethyl ether - alpha isomer	Not Available
xylene	Not Available
cyclohexanone	Not Available
n-butyl acetate	Not Available

## **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 2020

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## **RESENE THINNER NO.4**

Please refer to Section 8 of the SDS for any applicable tolerable exposure limit or Section 12 for environmental exposure limit.

isopropanol is found on the following regulatory lists	
	New Zealers Harradova Ochekarana and New Orangiana (HONO) Asta Olas ("
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs	New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data
New Zealand Approved Hazardous Substances with controls	New Zealand Inventory of Chemicals (NZIoC)
New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals	New Zealand Workplace Exposure Standards (WES)
propylene glycol monomethyl ether - alpha isomer is found on the following regulator	ry lists
New Zealand Approved Hazardous Substances with controls	New Zealand Inventory of Chemicals (NZIoC)
New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals	New Zealand Workplace Exposure Standards (WES)
New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data	
xylene is found on the following regulatory lists	
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs	New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data
New Zealand Approved Hazardous Substances with controls	New Zealand Inventory of Chemicals (NZIoC)
New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals	New Zealand Workplace Exposure Standards (WES)
cyclohexanone is found on the following regulatory lists	
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs	New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data
New Zealand Approved Hazardous Substances with controls	New Zealand Inventory of Chemicals (NZIoC)
New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals	New Zealand Workplace Exposure Standards (WES)
n-butyl acetate is found on the following regulatory lists	
New Zealand Approved Hazardous Substances with controls	New Zealand Inventory of Chemicals (NZIoC)
New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals	New Zealand Workplace Exposure Standards (WES)
New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data	

## Hazardous Substance Location

Subject to the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Hazard Class	Quantity (Closed Containers)	Quantity (Open Containers)
3.1B	100 L in containers more than 5 L	50 L
3.1B	250 L in containers up to and including 5 L	50 L

## Certified Handler

Subject to Part 4 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Class of substance	Quantities
Not Applicable	Not Applicable

Refer Group Standards for further information

## Maximum quantities of certain hazardous substances permitted on passenger service vehicles

Subject to Regulation 13.14 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Hazard Class	Gas (aggregate water capacity in mL)	Liquid (L)	Solid (kg)	Maximum quantity per package for each classification
3.1B				1L

#### **Tracking Requirements**

Not Applicable

#### **National Inventory Status**

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
New Zealand - NZIoC	Yes
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

#### **SECTION 16 Other information**

Revision Date	14/06/2022
Initial Date	13/06/2022

#### **SDS Version Summary**

Version

Version	Date of Update	Sections Updated
1.3	14/06/2022	Chronic Health, Classification

#### 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 ES: Exposure Standard OSF: Odour Safety Factor NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index AIIC: Australian Inventory of Industrial Chemicals DSL: Domestic Substances List NDSL: Non-Domestic Substances List IECSC: Inventory of Existing Chemical Substance in China EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European List of Notified Chemical Substances NLP: No-Longer Polymers ENCS: Existing and New Chemical Substances Inventory KECI: Korea Existing Chemicals Inventory NZIoC: New Zealand Inventory of Chemicals PICCS: Philippine Inventory of Chemicals and Chemical Substances TSCA: Toxic Substances Control Act TCSI: Taiwan Chemical Substance Inventory INSQ: Inventario Nacional de Sustancias Químicas NCI: National Chemical Inventory FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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