# **Resene Paints Ltd**

Version No: 1.2 Safety Data Sheet according to HSNO Regulations Issue Date: 20/07/2020 Print Date: 21/07/2020 L.GHS.NZL.EN

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

#### **Product Identifier**

Product name RESENE RUST - ARREST	
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) (contains zinc oxide and zinc phosphate)
Other means of identification Not Available	

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

Relevant identified uses	8145	

# Details of the supplier of the safety data sheet

Registered company name	Resene Paints Ltd	
Address 32-50 Vogel Street Wellington New Zealand		
Telephone	Telephone +64 4 577 0500	
Fax	+64 4 5773327	
Website	www.resene.co.nz	
Email	advice@resene.co.nz	

#### Emergency telephone number

Association / Organisation	NZ POISONS (24hr 7 days)	CHEMWATCH EMERGENCY RESPONSE
Emergency telephone numbers	0800 764766	+64 800 700 112
Other emergency telephone numbers	Not Available	+61 2 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

Classification <sup>[1]</sup>		Flammable Liquid Category 3, Chronic Aquatic Hazard Category 2, Specific target organ toxicity - repeated exposure Category 2, Eye Irritation Category 2, Reproductive Toxicity Category 2, Carcinogenicity Category 2, Skin Corrosion/Irritation Category 3
	Legend:	1. Classified by Chemwatch; 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	3.1C, 6.3B, 6.4A, 6.7B, 6.8B, 6.9B, 9.1B

# Label elements

WARNING

SIGNAL WORD

Hazard statement(s)

Flammable liquid and vapour.	
Toxic to aquatic life with long lasting effects.	
May cause damage to organs through prolonged or repeated exposure. (Oral, Dermal, Inhalation)	
Causes serious eye irritation.	
Suspected of damaging fertility or the unborn child.	
Suspected of causing cancer.	
Causes mild skin irritation.	

# 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.
P233	Keep container tightly closed.
P260	Do not breathe mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/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.
P273	Avoid release to the environment.

# Precautionary statement(s) Response

P308+P313	P313 IF exposed or concerned: Get medical advice/ attention.	
P370+P378	P370+P378 In case of fire: Use alcohol resistant foam or normal protein foam to extinguish.	
P305+P351+P338	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P314	14 Get medical advice/attention if you feel unwell.	
P332+P313	P332+P313 If skin irritation occurs: Get medical advice/attention.	
P337+P313	P337+P313 If eye irritation persists: Get medical advice/attention.	
P391	P391 Collect spillage.	
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].		

# 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.

# SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

# Substances

See section below for composition of Mixtures

# Mixtures

CAS No	%[weight]	Name
7779-90-0	1-10	zinc phosphate
95-63-6	1-5	1.2.4-trimethyl benzene
108-67-8	1-5	1.3,5-trimethyl benzene
1314-13-2	1-5	zinc.oxide
1330-20-7	1-5	xylene
123-86-4	10-20	n-butyl acetate
64742-94-5	1-5	solvent naphtha petroleum, heavy aromatic
91-20-3	0.1-1	naphthalene

# **SECTION 4 FIRST AID MEASURES**

# Description of first aid measures

Eye Contact	<ul> <li>If this product comes in contact with the eyes:</li> <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> <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: <ul> <li>Immediately remove all contaminated clothing, including footwear.</li> <li>Flush skin and hair with running water (and soap if available).</li> <li>Seek medical attention in event of irritation.</li> </ul>
Inhalation	If aerosols, fumes or combustion products are inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms develop seek medical attention.

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

Treat symptomatically.

# SECTION 5 FIREFIGHTING MEASURES

### Extinguishing media

Foam.

#### Special hazards arising from the substrate or mixture

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

# 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>
Other information	<ul> <li>Store in original containers in approved flammable liquid storage area.</li> </ul>

# Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>Packing as supplied by manufacturer.</li> </ul>
Storage incompatibility	<ul> <li>reacts with strong oxidisers</li> <li>is incompatible with caustics, strong acids and nitrates</li> <li>dissolves rubber, many plastics, resins and some coatings</li> </ul>

# 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)	zinc phosphate	Particulates not otherwise classified respirable dust	3 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	zinc phosphate	Particulates not otherwise classified	10 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	zinc oxide	Zinc oxide fume respirable dust	3 mg/m3	10 mg/m3	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	zinc oxide	Zinc oxide Dust respirable dust	10 mg/m3	Not Available	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)	n-butyl acetate	n-Butyl acetate	150 ppm / 713 mg/m3	950 mg/m3 / 200 ppm	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	naphthalene	Naphthalene	0.5 ppm / 2.6 mg/m3	10 mg/m3 / 2 ppm	Not Available	skin-Skin absorption 6.7B-Suspected carcinogen

#### EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3	
zinc phosphate	Zinc phosphate (3:2)	12 mg/m3	36 mg/m3	220 mg/m3	
1,2,4-trimethyl benzene	Permafluor E+	140 mg/m3	360 mg/m3	2,200 mg/m3	
1,2,4-trimethyl benzene	Trimethylbenzene, 1,2,4-; (Pseudocumene)	Not Available	Not Available	480 ppm	
1,3,5-trimethyl benzene	Trimethylbenzene, -1,3,5; (Mesitylene)	Not Available	Not Available	480 ppm	
zinc oxide	Zinc oxide	10 mg/m3	15 mg/m3	2,500 mg/m3	
xylene	Xylenes	Not Available	Not Available	Not Available	
n-butyl acetate	Butyl acetate, n-	Not Available	Not Available	Not Available	
naphthalene	Naphthalene	15 ppm	83 ppm	500 ppm	
Ingredient	Original IDLH	Revised IDLH			
zinc phosphate	Not Available	Not Available			
1,2,4-trimethyl benzene	Not Available	Not Available	Not Available		
1,3,5-trimethyl benzene	Not Available	Not Available	Not Available		
zinc oxide	500 mg/m3	Not Available	Not Available		
xylene	900 ppm	Not Available			
n-butyl acetate	1,700 ppm	Not Available			
solvent naphtha petroleum, heavy aromatic	Not Available	Not Available			
naphthalene	250 ppm	Not Available			

# OCCUPATIONAL EXPOSURE BANDING

Ingredient	Occupational Exposure Band Rating Occupational Exposure Band Limit		
1,2,4-trimethyl benzene	E	≤ 0.1 ppm	
1,3,5-trimethyl benzene	E ≤ 0.1 ppm		
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.		

#### 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.

for zinc oxide:

Zinc oxide intoxication (intoxication zincale) is characterised by general depression, shivering, headache, thirst, colic and diarrhoea.

for naphthalene:

Odour Threshold Value: 0.038 ppm

The TLV-TWA is thought to be low enough to prevent ocular toxicity but the margin of safety associated with the TLV for hypersusceptible individuals (with glucose-6-phosphate dehydrogenase defective erythrocytes) to naphthalene-induced blood dyscrasias is unknown.

For n-butyl acetate 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 trimethyl benzene as mixed isomers (of unstated proportions)

Odour Threshold Value: 2.4 ppm (detection)

Use care in interpreting effects as a single isomer or other isomer mix.

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

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.

NOTE H: Special requirements exist in relation to classification and labelling of this substance.

#### 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 the material, but also on further marks of quality which vary from manufacturer to manufacturer.
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	Red oxide coloured dispersion with strong solvent odour		
Physical state	Liquid	Relative density (Water = 1)	1.47
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	416
pH (as supplied)	Not Available	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	540
Initial boiling point and boiling range (°C)	147	Molecular weight (g/mol)	Not Available
Flash point (°C)	39	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Flammable.	Oxidising properties	Not Available
Upper Explosive Limit (%)	7.2	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	0.9	Volatile Component (%vol)	45
Vapour pressure (kPa)	1.2	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	4.0	VOC g/L	395

# SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	▶ stable
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 of vapours may cause drowsiness and dizziness. Central nervous system (CNS) depression may include nonspecific discomfort, symptoms of giddiness, headache, dizziness, nausea, anaesthetic effects, slowed reaction time, slurred speech and may progress to unconsciousness.
Ingestion	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	Repeated exposure may cause skin cracking, flaking or drying following normal handling and use. 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	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. Repeated or long-term occupational exposure is likely to produce cumulative health effects involving organs or biochemical systems. Long-term exposure to respiratory irritants may result in disease of the airways involving difficult breathing and related systemic problems. Exposure to the material may cause concerns for human fertility, generally on the basis that results in animal studies provide sufficient evidence to cause a strong suspicion of impaired fertility in the absence of toxic effects, or evidence of impaired fertility occurring at around the same dose levels as other toxic effects, but which are not a secondary non-specific consequence of other 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. Prolonged or repeated skin contact may cause drying with cracking, irritation and possible dermatitis following.

	ТОХІСІТҮ		IRRITATION	IRRITATION		
RESENE RUST - ARREST	Not Available		Not Available	Not Available		
zinc phosphate	TOXICITY Oral (rat) LD50: >5000 mg/kg <sup>[2]</sup>		N verse effect observed (not ir tverse effect observed (not i			
1,2,4-trimethyl benzene	TOXICITY           Dermal (rabbit) LD50: >3160 mg/kg <sup>[2]</sup> Inhalation (rat) LC50: 18 mg/l/4hd <sup>[2]</sup> Oral (rat) LD50: 5000 mg/kg <sup>[1]</sup>		IRRITATION Not Available			
1,3,5-trimethyl benzene	TOXICITY         IRRITATION           Inhalation (rat) LC50: 24 mg/l/4hd <sup>[2]</sup> Eye (rabbit): 500 mg/24h mild           Oral (rat) LD50: 5000 mg/kg <sup>[1]</sup> Eye: adverse effect observed ( Skin (rabbit): 20 mg/24h moder           Skin: adverse effect observed (         Skin: adverse effect observed (			(irritating) <sup>[1]</sup>		
zinc oxide	TOXICITY           dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup> Inhalation (rat) LC50: >1.79 mg/l4 h <sup>[1]</sup> Oral (rat) LD50: >5000 mg/kg <sup>[2]</sup>	Eye Eye: Skin	TATION (rabbit) : 500 mg/24 h - mild no adverse effect observed (rabbit) : 500 mg/24 h- mild no adverse effect observed			
xylene	TOXICITY           Dermal (rabbit) LD50: >1700 mg/kg <sup>[2]</sup> Inhalation (rat) LC50: 4994.295 mg/l/4h <sup>[2]</sup> Oral (rat) LD50: 3523-8700 mg/kg <sup>[2]</sup>		IRRITATION         Eye (human): 200 ppm in         Eye (rabbit): 5 mg/24h S         Eye (rabbit): 87 mg mild         Eye: adverse effect obse         Skin (rabbit):500 mg/24h         Skin: adverse effect obse	EVERE erved (irritating) <sup>[1]</sup> moderate		

	TOXICITY	IRRITATION			
	Dermal (rabbit) LD50: 3200 mg/kg <sup>[2]</sup>	Eye ( human): 300 mg			
	Inhalation (rat) LC50: 1.802 mg/l4 h <sup>[1]</sup>	Eye (rabbit): 20 mg (open)-SEVERE			
n-butyl acetate	Oral (rat) LD50: =10700 mg/kg <sup>[2]</sup>	Eye (rabbit): 20 mg/24h - moderat	ye (rabbit): 20 mg/24h - moderate		
		Eye: no adverse effect observed (not irritating) <sup>[1]</sup>			
		Skin (rabbit): 500 mg/24h-moderate			
		Skin: no adverse effect observed	(not irritating) <sup>[1]</sup>		
	TOXICITY	IRRITATION	RRITATION		
solvent naphtha petroleum,	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Eye (rabbit): Irritating	/e (rabbit): Irritating		
heavy aromatic	Inhalation (rat) LC50: >0.59 mg/l/4H <sup>[2]</sup>	Eye: no adverse effect observed	(not irritating) <sup>[1]</sup>		
	Oral (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Skin: adverse effect observed (irr	itating) <sup>[1]</sup>		
	ΤΟΧΙΟΙΤΥ	IRRITATION			
naphthalene	dermal (rat) LD50: >2500 mg/kg <sup>[2]</sup>	Eye (rabbit): 100 mg - m	ild		
	Oral (rat) LD50: 490 mg/kg <sup>[2]</sup>	Skin (rabbit):495 mg (op	en) - mild		
Legend:	<ol> <li>Value obtained from Europe ECHA Registered Substan specified data extracted from RTECS - Register of Toxic E</li> </ol>	-	om manufacturer's SDS. Unless otherwise		
	specified data extracted from TTEOS - Tregister of Toxic E	or chemical cubstances			

1,2,4-TRIMETHYL BENZENE	CHEMWATCH 2325 1,3,5-trimethylbenzene			
1,3,5-TRIMETHYL BENZENE	CHEMWATCH 12171 1,2,4-trimethylbenzene			
XYLENE	Reproductive effector in rats The substance is classified by IARC as Group 3: <b>NOT</b> classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limited in animal testing.			
N-BUTYL ACETATE	Generally,linear and branched-chain alkyl esters are h and most tissues throughout the body.	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.		
SOLVENT NAPHTHA PETROLEUM, HEAVY AROMATIC	Studies indicate that normal, branched and cyclic paraffins are absorbed from the mammalian gastrointestinal tract and that the absorption of n-paraffins is inversely proportional to the carbon chain length, with little absorption above C30. for petroleum: Altered mental state, drowsiness, peripheral motor neuropathy, irreversible brain damage (so-called Petrol Sniffer's Encephalopathy), delirium, seizures, and sudden death have been reported from repeated overexposure to some hydrocarbon solvents, naphthas, and gasoline This product may contain benzene which is known to cause acute myeloid leukaemia and n-hexane which has been shown to metabolize to compounds which are neuropathic. This product contains toluene.			
NAPHTHALENE	WARNING: This substance has been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans.			
RESENE RUST - ARREST & 1,2,4-TRIMETHYL BENZENE & 1,3,5-TRIMETHYL BENZENE	Asthma-like symptoms may continue for months or even years after exposure to the material ceases. For trimethylbenzenes: Absorption of 1,2,4-trimethylbenzene occurs after oral, inhalation, or dermal exposure.			
1,2,4-TRIMETHYL BENZENE & 1,3,5-TRIMETHYL BENZENE	Other Toxicity data is available for CHEMWATCH 12172 1,2,3-trimethylbenzene			
1,3,5-TRIMETHYL BENZENE & NAPHTHALENE	The material may be irritating to the eye, with prolonged contact causing inflammation.			
1,3,5-TRIMETHYL BENZENE & ZINC OXIDE & XYLENE & N-BUTYL ACETATE & NAPHTHALENE	The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic).			
XYLENE & 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	×	STOT - Repeated Exposure	*	
	×	Aspiration Hazard	×	

# SECTION 12 ECOLOGICAL INFORMATION

RESENE RUST - ARREST	ENDPOINT		TEST DURATION (HR)		SPECIES	VALUE		SOURCE
	Not Available Not Available		Not Available	Not Ava	ilable	Not Available		
	ENDPOINT	POINT TEST DURATION (HR)		SPECI	ES	V	ALUE	SOURCE
zinc phosphate	LC50	96		Fish		0	.001-0.58mg/L	2
2ine prosprate	EC50	48		Crusta	сеа	0	.001-0.833mg/l	- 2
	NOEC	72		Algae	or other aquatic plants	0	.00038608mg/L	. 2
	ENDPOINT	TES	T DURATION (HR)	SPE	CIES		VALUE	SOURCE
1,2,4-trimethyl benzene	LC50	96		Fish			1.318mg/L	3
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	EC50	48		Cru	stacea		ca.6.14mg/l	_ 2
	EC50	96		Alga	e or other aquatic plants		2.154mg/L	3
	ENDPOINT	TES	T DURATION (HR)	SP	ECIES		VALUE	SOURCE
	LC50	96		Fis			1.318mg/	
1,3,5-trimethyl benzene	EC50	48			ustacea		13mg/L	5
1,3,5-timetriyi benzene	EC50	96				0	-	
	NOEC	384			ae or other aquatic plant ustacea	.5	2.154mg/ 0.257mg/	
	NOEC	304		Cit	ISIACEA		0.257111g/	- 2
	ENDPOINT	TEST	DURATION (HR)	SPECI	ES	V	ALUE	SOURCE
	LC50	96		Fish		0	.001-0.58mg/L	2
	EC50	48		Crusta	cea	0	.001-0.014mg/l	_ 2
zinc oxide	EC50	72		Algae	or other aquatic plants	0	.037mg/L	2
	BCF 336			Fish		4	376.673mg/L	4
	NOEC	72		Algae	or other aquatic plants	0	0.00008138mg/L	
	ENDPOINT	TES	ST DURATION (HR)	SI	PECIES		VALUE	SOURCE
	LC50	96		Fi	sh		2.6mg/L	2
xylene	EC50	48		Ci	rustacea		1.8mg/L	2
	EC50	72		AI	gae or other aquatic plar	its	3.2mg/L	2
	NOEC	73		AI	gae or other aquatic plar	its	0.44mg/	L 2
	ENDPOINT	TES	T DURATION (HR)	SDE	CIES		VALUE	SOURCE
	LC50	96	T DORATION (TIK)	Fish			18mg/L	4
	EC50	48			stacea		=32mg/L	1
n-butyl acetate	EC50	96			le or other aquatic plants		1.675mg/L	3
	EC90	72			e or other aquatic plants		1-540.7mg/L	
	NOEC	504			stacea		23.2mg/L	2
	1							
	ENDPOINT	TES	ST DURATION (HR)	SI	PECIES		VALUE	SOURCE
alvant paphtha patrolour	LC50	96		Fi	sh		0.58mg/	L 2
olvent naphtha petroleum, heavy aromatic	EC50	48		Ci	rustacea		0.76mg/	L 2
	EC50	72		AI	gae or other aquatic plar	its	<1mg/L	1
	NOEC	96		AI	gae or other aquatic plar	its	0.12mg/	L 2
	ENDROUT							001126-
	ENDPOINT		T DURATION (HR)		ECIES		VALUE	SOURCE
	LC50	96			Fish		0.213mg/L	4
naphthalene	EC50	48			stacea	-	1.6mg/L	4
	EC50	72			ae or other aquatic plants	3	ca.0.4mg/L	
	BCF	12		Fish			10.2mg/L	4
	NOEC	48		Fish	1		0.0001mg/l	_ 4
Legend:					red Substances - Ecotox cotox database - Aquatic			

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.

For 1,2,4-trimethylbenzene: Half-life (hr) air : 0.48-16 Half-life (hr) H2O surface water : 0.24-672 Half-life (hr) H2O ground : 336-1344 Half-life (hr) soil : 168-672 Henry's Pa m3 /mol: 385-627 Bioaccumulation : not significant 1,2,4-Trimethylbenzene is a volatile organic compound (VOC) substance. For aromatic hydrocarbons: 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 naphthalene: Environmental fate: Naphthalene released to the atmosphere may be transported to surface water and/or soil by wet or dry deposition. For n-butyl acetate: 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 Environmental Fate: TERRESTRIAL FATE: An estimated Koc value of 200 determined from a measured log Kow of 1.78 indicates that n-butyl acetate is expected to have moderate mobility in soil. DO NOT discharge into sewer or waterways.

# Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
1,2,4-trimethyl benzene	LOW (Half-life = 56 days)	LOW (Half-life = 0.67 days)
1,3,5-trimethyl benzene	HIGH	HIGH
xylene	HIGH (Half-life = 360 days)	LOW (Half-life = 1.83 days)
n-butyl acetate	LOW	LOW
naphthalene	HIGH (Half-life = 258 days)	LOW (Half-life = 1.23 days)

#### **Bioaccumulative potential**

Ingredient	Bioaccumulation
1,2,4-trimethyl benzene	LOW (BCF = 275)
1,3,5-trimethyl benzene	LOW (BCF = 342)
zinc oxide	LOW (BCF = 217)
xylene	MEDIUM (BCF = 740)
n-butyl acetate	LOW (BCF = 14)
solvent naphtha petroleum, heavy aromatic	LOW (BCF = 159)
naphthalene	HIGH (BCF = 18000)

# Mobility in soil

Ingredient	Mobility
1,2,4-trimethyl benzene	LOW (KOC = 717.6)
1,3,5-trimethyl benzene	LOW (KOC = 703)
n-butyl acetate	LOW (KOC = 20.86)
naphthalene	LOW (KOC = 1837)

# SECTION 13 DISPOSAL CONSIDERATIONS

# Waste treatment methods

Product / Packaging disposal

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

<ul> <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	
HAZCHEM	•3Y

# 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) (contains zinc oxide and zinc phosphate)
Transport hazard class(es)	Class 3 Subrisk Not Applicable
Packing group	III
Environmental hazard	Environmentally hazardous
Special precautions for user	Special provisions     163; 223; 367       Limited quantity     5 L

# Air transport (ICAO-IATA / DGR)

UN number	1263					
UN proper shipping name		Paint (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) (contains zinc oxide and zinc phosphate); Paint related material (including paint thinning or reducing compounds) (contains zinc oxide and zinc phosphate)				
Transport hazard class(es)	ICAO/IATA Class3ICAO / IATA SubriskNot ApplicableERG Code3L					
Packing group	111	Π				
Environmental hazard	Environmentally hazardo	Environmentally hazardous				
	Special provisions Cargo Only Packing In	structions	A3 A72 A192 366			
	Cargo Only Maximum Qty / Pack		220 L			
Special precautions for user	Passenger and Cargo	Packing Instructions	355			
	Passenger and Cargo Maximum Qty / Pack		60 L			
	Passenger and Cargo	Limited Quantity Packing Instructions	Y344			
	Passenger and Cargo Limited Maximum Qty / Pack		10 L			

# Sea transport (IMDG-Code / GGVSee)

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) (contains zinc oxide and zinc phosphate)
Transport hazard class(es)	IMDG Class     3       IMDG Subrisk     Not Applicable
Packing group	III

Environmental hazard	Marine Pollutant	
Special precautions for user	EMS Number F-E , S-E	
	Special provisions 163 223 367 955	
	Limited Quantities 5 L	
Transport in bulk according to Not Applicable SECTION 15 REGULATORY	Annex II of MARPOL and the IBC code	
Safety, health and environmental regulations / legislation specific for the substance or mixture		
This substance is to be managed u	using the conditions specified in an applicable Group Standard	

HSR Number	Group Standard	
HSR002669	Surface Coatings and Colourants (Flammable	e, Toxic [6.7]) Group Standard 2017
ZINC PHOSPHATE IS FOU	JND ON THE FOLLOWING REGULATORY LISTS	
New Zealand Approved Ha	zardous Substances with controls	New Zealand Inventory of Chemicals (NZIoC)
New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals		tion New Zealand Workplace Exposure Standards (WES)
New Zealand Hazardous S of Chemicals - Classificatio	ubstances and New Organisms (HSNO) Act - Classifica n Data	tion
1,2,4-TRIMETHYL BENZE	NE IS FOUND ON THE FOLLOWING REGULATORY L	JSTS
New Zealand Approved Ha	zardous Substances with controls	New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification
New Zealand Hazardous S	ubstances and New Organisms (HSNO) Act - Classifica	tion of Chemicals - Classification Data
of Chemicals		New Zealand Inventory of Chemicals (NZIoC)
1,3,5-TRIMETHYL BENZE	NE IS FOUND ON THE FOLLOWING REGULATORY L	JSTS
	zardous Substances with controls	New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification
	ubstances and New Organisms (HSNO) Act - Classifica	
of Chemicals		New Zealand Inventory of Chemicals (NZIoC)
-	N THE FOLLOWING REGULATORY LISTS	
	zardous Substances with controls	New Zealand Inventory of Chemicals (NZIoC)
New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals		tion New Zealand Workplace Exposure Standards (WES)
New Zealand Hazardous S of Chemicals - Classification	ubstances and New Organisms (HSNO) Act - Classifica on Data	tion
XYLENE IS FOUND ON TH	HE FOLLOWING REGULATORY LISTS	
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs		RC New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data
New Zealand Approved Ha	zardous Substances with controls	New Zealand Inventory of Chemicals (NZIoC)
New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals		tion New Zealand Workplace Exposure Standards (WES)
N-BUTYL ACETATE IS FO	UND 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 New Zealand Workplace Exposure Standards (WES)	
New Zealand Hazardous S of Chemicals - Classificatio	ubstances and New Organisms (HSNO) Act - Classifica on Data	tion
SOLVENT NAPHTHA PET	ROLEUM, HEAVY AROMATIC IS FOUND ON THE FO	LLOWING REGULATORY LISTS
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs		RC New Zealand Inventory of Chemicals (NZIoC)
NAPHTHALENE IS FOUN	D ON THE FOLLOWING REGULATORY LISTS	
-	- Chemicals of High Concern List	New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification
International Agency for Re	esearch on Cancer (IARC) - Agents Classified by the IAF	
Monographs International Agency for Research on Cancer (IARC) - Agents Classified by the IARC		

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 2B : Possibly carcinogenic to humans New Zealand Approved Hazardous Substances with controls New Zealand Hazardous Substances and New Organisms (HSNO of Chemicals - Classification Data New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

# **Hazardous Substance Location**

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

Hazard Class	Quantity beyond which controls apply for closed containers	Quantity beyond which controls apply when use occurring in open containers
3.1C	500 L in containers greater than 5 L 1500 L in containers up to and including 5 L	250 L 250 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

# Tracking Requirements

Not Applicable

#### **National Inventory Status**

National Inventory	Status
Australia - AICS	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 and are not exempt from listing(see specific ingredients in brackets)

# **SECTION 16 OTHER INFORMATION**

Revision Date	20/07/2020
Initial Date	06/10/2015

#### SDS Version Summary

Version	Issue Date	Sections Updated
0.2.1.1.1	20/07/2020	Acute Health (inhaled), Acute Health (skin), Acute Health (swallowed), Classification, First Aid (skin)

# 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
- TLV: Threshold Limit Value
- LOD: Limit Of Detection
- OTV: Odour Threshold Value
- BCF: BioConcentration Factors
- BEI: Biological Exposure Index

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