## **RESENE AUTOMOTIVE & LIGHT INDUSTRIAL**

Version No: 1.1 Safety Data Sheet according to HSNO Regulations Issue Date: 07/07/2020 Print Date: 08/07/2020 L.GHS.NZL.EN

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

#### **Product Identifier**

Product name	RESENE EQUIPMENT ENAMEL	
Synonyms	ncl. all colours	
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	8770, 8675, 10018, 9924, 8640, 6152, 6602, 6584, 8747
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## Details of the supplier of the safety data sheet

Registered company name	RESENE AUTOMOTIVE & LIGHT INDUSTRIAL	
Address	2-50 Vogel Street Naenae Wellington New Zealand	
Telephone	4 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)	CHEMWATCH EMERGENCY RESPONSE
Emergency telephone numbers	0800 764766	+64 800 700 112
Other emergency telephone numbers	0800 737636	+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>	Specific target organ toxicity - single exposure Category 2, Flammable Liquid Category 2, Skin Corrosion/Irritation Category 2, Eye Irritation Category 2, Reproductive Toxicity Category 2, Acute Toxicity (Oral) Category 5, Acute Toxicity (Dermal) Category 5, Skin Sensitizer Category 1, Carcinogenicity Category 2, Chronic Aquatic Hazard Category 3, Acute Aquatic Hazard Category 2	
Legend:	. 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, 6.1E (dermal), 6.1E (oral), 6.3A, 6.4A, 6.5B (contact), 6.7B, 6.8B, 6.9B, 9.1C, 9.1D	

#### Label elements

Hazard pictogram(s)		
SIGNAL WORD	DANGER	

#### Hazard statement(s)

H371	May cause damage to organs. (Oral, Dermal, Inhalation)	
H225	ghly flammable liquid and vapour.	
H315	ses skin irritation.	
H319	uses serious eye irritation.	
H361	Suspected of damaging fertility or the unborn child.	
H303	May be harmful if swallowed.	
H313	May be harmful in contact with skin.	

H317	May cause an allergic skin reaction.	
H351	Suspected of causing cancer.	
H412	Harmful to aquatic life with long lasting effects.	
H401	Toxic to aquatic life.	

#### Precautionary statement(s) Prevention

recautionary statement(s) revention		
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	o not breathe mist/vapours/spray.	
P280	ear 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.	
P270	Do not eat, drink or smoke when using this product.	
P273	Avoid release to the environment.	
P272	Contaminated work clothing should not be allowed out of the workplace.	

## Precautionary statement(s) Response

P312	Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.		
P321	Specific treatment (see advice on this label).		
P370+P378	case of fire: Use alcohol resistant foam or normal protein foam to extinguish.		
P302+P352	F ON SKIN: Wash with plenty of water and soap.		
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
P308+P311	IF exposed or concerned: Call a POISON CENTER/doctor/physician/first aider.		
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.		
P337+P313	If eye irritation persists: Get medical advice/attention.		
P362+P364	Take off contaminated clothing and wash it before reuse.		
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

Ingredients are required by the Hazard Substances (Safety Data Sheets) Notice 2017 to be identified:

## Mixtures

CAS No	%[weight]	Name
96-29-7	0.1-0.5	methyl ethyl ketoxime
1330-20-7	10-30	xylene
64742-49-0.	10-20	naphtha petroleum, light, hydrotreated.
108-88-3	1-5	toluene

## 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	<ul> <li>If skin or hair contact occurs:</li> <li>Immediately flush body and clothes with large amounts of water, using safety shower if available.</li> <li>Quickly remove all contaminated clothing, including footwear.</li> </ul>

	<ul> <li>Wash skin and hair with running water.</li> <li>Transport to hospital, or doctor 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>

#### 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 i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result				
Advice for firefighters					
Fire Fighting  Alert Fire Brigade and tell them location and nature of hazard.					
Fire/Explosion Hazard	Liquid and vapour are highly flammable. Combustion products include: carbon dioxide (CO2)				

other pyrolysis products typical of burning organic material.

## 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

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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 flame-proof area.</li> </ul>

## Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>Packing as supplied by manufacturer.</li> </ul>
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Storage incompatibility

May react with strong oxidisers, chlorine

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

### **Control parameters**

### OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
New Zealand Workplace Exposure Standards (WES)	xylene	Dimethylbenzene	50 ppm / 217 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	toluene	Toluene (Toluol)	50 ppm / 188 mg/m3	Not Available	Not Available	skin-Skin absorption

EMERGENCY LIMITS

Ingredient	Material name TEEL-1		TEEL-2	TEEL-3			
methyl ethyl ketoxime	Butanone oxime; (Ethyl methyl ketoxime)	3	30 ppm	56 ppm	250 ppm		
xylene	Xylenes	Not Available 1,000 mg/m3		Not Available	Not Available		
naphtha petroleum, light, hydrotreated.	Naphtha (petroleum), hydrotreated light			11,000 mg/m3	66,000 mg/m3		
toluene	Toluene	N	Not Available	Not Available	Not Available		
Ingredient Original IDLH			Revised ID	Revised IDLH			
methyl ethyl ketoxime	Not Available	Not Available		Not Available			
xylene	900 ppm	900 ppm		Not Available			
naphtha petroleum, light, hydrotreated.	Not Available		Not Available				
toluene	500 ppm		Not Available				

#### OCCUPATIONAL EXPOSURE BANDING

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit		
methyl ethyl ketoxime	E	≤ 0.1 ppm		
naphtha petroleum, light, hydrotreated.	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 methyl ethyl ketoxime (MEKO)

CEL TWA: 10 ppm, 36 mg/m3 (compare WEEL-TWA)

(CEL = Chemwatch Exposure Limit)

OEL-TWA: 0.28 ppm, 1 mg/m3 ORICA Australia quoting DSM Chemicals

Saturated vapour concentration: 1395 ppm at 20 deg.

for: hexane, isomers (excluding n-hexane)

The TLV-TWA is thought to be protective against nausea, headache, upper respiratory tract irritation and CNS depression.

for xylenes:

IDLH Level: 900 ppm

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

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

For toluene

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

NOTE: Detector tubes measuring in excess of 5 ppm, are available. NOTE H: Special requirements exist in relation to classification and labelling of this substance.

NOTE P: The classification as a carcinogen need not apply if it can be shown that the substance contains less than 0.01% w/w benzene (EINECS No 200-753-7).

#### Exposure controls

Appropriate engineering controls	<b>CARE:</b> Use of a quantity of this material in confined space or poorly ventilated area, where rapid build up of concentrated atmosphere may occur, could require increased ventilation and/or protective gear Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard.
Personal protection	
Eye and face protection	<ul> <li>Safety glasses with side shields.</li> </ul>
Skin protection	See Hand protection below
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Hands/feet protection	<ul> <li>Wear chemical protective gloves, e.g. PVC.</li> <li>NOTE:</li> <li>The material may produce skin sensitisation in predisposed individuals.</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>
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

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#### Information on basic physical and chemical properties

Appearance	Dispersion		
Physical state	Liquid	Relative density (Water = 1)	0.92-0.98
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	340-360
pH (as supplied)	Not Available	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	210-240
Initial boiling point and boiling range (°C)	110-120	Molecular weight (g/mol)	Not Available
Flash point (°C)	14-18	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	HIGHLY FLAMMABLE.	Oxidising properties	Not Available
Upper Explosive Limit (%)	7.2	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	1.1	Volatile Component (%vol)	68
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	3.6	VOC g/L	540-550

#### 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

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Inhaled	Inhalation of vapours may cause drowsiness and dizziness. Inhalation hazard is increased at higher temperatures. High inhaled concentrations of mixed hydrocarbons may produce narcosis characterised by nausea, vomiting and lightheadedness. 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. Acute effects from inhalation of high concentrations of vapour are pulmonary irritation, including coughing, with nausea; central nervous system depression - characterised by headache and dizziness, increased reaction time, fatigue and loss of co-ordination

	Headache, fatigue, lassitude, irritability and gastrointestinal disturbances (e.g., nausea, anorexia and flatulence) are the most common symptoms of xylene overexposure.
Ingestion	Strong evidence exists that exposure to the material may produce very serious irreversible damage (other than carcinogenesis, mutagenesis and teratogenesis) following a single exposure by swallowing. 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. Ingestion of petroleum hydrocarbons may produce irritation of the pharynx, oesophagus, stomach and small intestine with oedema and mucosal ulceration resulting; symptoms include a burning sensation in the mouth and throat.
Skin Contact	The material may accentuate any pre-existing dermatitis condition Toxic effects may result from skin absorption 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	Petroleum hydrocarbons may produce pain after direct contact with the eyes. The liquid produces a high level of eye discomfort and is capable of causing pain and severe conjunctivitis.
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. 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. There is sufficient evidence to establish a causal relationship between human exposure to the material and impaired fertility Repeated or prolonged exposure to mixed hydrocarbons may produce narcosis with dizziness, weakness, irritability, concentration and/or memory loss, tremor in the fingers and tongue, vertigo, olfactory disorders, constriction of visual field, paraesthesias of the extremities, weight loss and anaemia and degenerative changes in the liver and kidney. Repeated application of mildly hydrotreated oils (principally paraffinic), to mouse skin, induced skin tumours; no tumours were induced with severely hydrotreated oils. Prolonged or repeated contact with xylenes may cause defatting dermatitis with drying and cracking.

RESENE EQUIPMENT			IRRITATION	
ENAMEL	Not Available	ot Available Not Available		
	ΤΟΧΙCΙΤΥ		IRRITATION	
	Dermal (rabbit) LD50: 2-1.8 mg/kg <sup>[2]</sup>		Eye (rabbit): 0.1 ml - SEVERE	
methyl ethyl ketoxime	Inhalation (rat) LC50: 20 mg/l/4h** <sup>[2]</sup>			
	Oral (rat) LD50: >900 mg/kg <sup>[1]</sup>			
	TOXICITY		RRITATION	
	Dermal (rabbit) LD50: >1700 mg/kg <sup>[2]</sup>		Eye (human): 200 ppm irritant	
_	Inhalation (rat) LC50: 4994.295 mg/l/4h <sup>[2]</sup>		Eye (rabbit): 5 mg/24h SEVERE	
xylene	Oral (rat) LD50: 3523-8700 mg/kgl <sup>2]</sup>		Eye (rabbit): 87 mg mild	
			Eye: adverse effect observed (irritating) <sup>[1]</sup>	
			Skin (rabbit):500 mg/24h moderate	
		¥	Skin: adverse effect observed (irritating) <sup>[1]</sup>	
	TOXICITY IRRITATION		ION	
naphtha petroleum, light, hydrotreated.	Dermal (rabbit) LD50: >1900 mg/kg <sup>[1]</sup> Eye: no a		adverse effect observed (not irritating) <sup>[1]</sup>	
	Oral (rat) LD50: >4500 mg/kg <sup>[1]</sup> Skin: adv		verse effect observed (irritating) <sup>[1]</sup>	
	ΤΟΧΙΟΙΤΥ	IRRITATIO	N	
	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>		: 2mg/24h - SEVERE	
	Inhalation (rat) LC50: 49 mg/l/4H <sup>[2]</sup>		:0.87 mg - mild	
	Oral (rat) LD50: 636 mg/kg <sup>[2]</sup>	Eye (rabbit)	:100 mg/30sec - mild	
toluene		Eye: adverse effect observed (irritating) <sup>[1]</sup>		
		Skin (rabbit):20 mg/24h-moderate		
		Skin (rabbit):500 mg - moderate		
		Skin: adverse effect observed (irritating) <sup>[1]</sup>		
		Skin: no ad	verse effect observed (not irritating) <sup>[1]</sup>	

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Mutagenicity	×	Aspiration Hazard	×	
Respiratory or Skin sensitisation	✓	STOT - Repeated Exposure	×	
Serious Eye Damage/Irritation	¥	STOT - Single Exposure	×	
Skin Irritation/Corrosion	¥	Reproductivity	×	
Acute Toxicity	¥	Carcinogenicity	✓	
XYLENE & TOLUENE	The material may cause skin irritation after prolonged or	r repeated exposure and may produ	ce a contact dermatitis (nonallergic).	
RESENE EQUIPMENT ENAMEL & NAPHTHA PETROLEUM, LIGHT, HYDROTREATED.	Studies indicate that normal, branched and cyclic paraff n-paraffins is inversely proportional to the carbon chain		s .	
RESENE EQUIPMENT ENAMEL & METHYL ETHYL KETOXIME	The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema.			
TOLUENE	For toluene: Acute Toxicity Humans exposed to intermediate to high levels of toluene for short periods of time experience adverse central nervous system effects ranging from headaches to intoxication, convulsions, narcosis, and death.			
NAPHTHA PETROLEUM, LIGHT, HYDROTREATED.	Acute toxicity: LBPNs generally have low acute toxicity by the oral (me and dermal (LD50 in rabbits > 2000 mg/kg-bw) routes o Most LBPNs are mild to moderate eye and skin irritants naphthas, which have higher primary skin irritation indic Sensitisation: LBPNs do not appear to be skin sensitizers, but a poor in Repeat dose toxicity: The lowest-observed-adverse-effect concentration (LOA short-term (2-89 days) and subchronic (greater than 90 in literature search. for petroleum: Altered mental state, drowsiness, peripheral motor neur seizures, and sudden death have been reported from re This product may contain benzene which is known to ca compounds which are neuropathic. This product contains toluene. The material may be irritating to the eye, with prolonged	f exposure in rabbits, with the exception of hea- ies. response in the positive control was AEC) and lowest-observed-adverse- days) exposure to the LBPN substa ropathy, irreversible brain damage (s epeated overexposure to some hydro ause acute myeloid leukaemia and n	vy catalytic cracked and heavy catalytic reformed also noted in these studies effect level (LOAEL) values identified following nces. No significant acute toxicological data identifie so-called Petrol Sniffer's Encephalopathy), delirium, ocarbon solvents, naphthas, and gasoline	
	Evidence of carcinogenicity may be inadequate or limite For Low Boiling Point Naphthas (LBPNs):	ed in animal testing.		
XYLENE	The material may produce severe irritation to the eye causing pronounced inflammation. The substance is classified by IARC as Group 3: <b>NOT</b> classifiable as to its carcinogenicity to humans.			
	Reproductive effector in rats			
METHYL ETHYL KETOXIME	For methyl ethyl ketoxime (MEKO) Carcinogenicity: Increased incidences of liver tumours were observed in rat and mouse lifetime studies and there was also an increased incidence of mammary gland tumours in female rats, however, this was only seen at mid- and/or high concentrations of MEKO. Mammalian lymphocyte mutagen *Huls Canada ** Merck			

## SECTION 12 ECOLOGICAL INFORMATION

Toxicity

RESENE EQUIPMENT	ENDPOINT	TEST DURATION (HR)	ę	SPECIES	VALUE		SOURCE
ENAMEL	Not Available	Not Available	1	Not Available	Not Availat	ble	Not Available
	ENDPOINT	TEST DURATION (HR)	SPECIES	3		VALUE	SOURCE
	LC50	96	Fish			37.890mg/L	3
method athed between	EC50	48	Crustacea			ca.201mg/L	2
methyl ethyl ketoxime	EC50	96	Algae or other aquatic plants		4.557mg/L	3	
	EC20	72	Algae or other aquatic plants		ca.55mg/L	2	
	NOEC	72	Algae or other aquatic plants			ca.1.02mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPECIE	ES		VALUE	SOURCE
xylene	LC50	96	Fish			2.6mg/L	2
	EC50	48	Crustac	cea		1.8mg/L	2
	EC50	72	Algae o	or other aquatic plants		3.2mg/L	2
	NOEC	73	Algae o	or other aquatic plants		0.44mg/L	2

	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
naphtha petroleum, light,	LC50	96	Fish	4.1mg/L	2
hydrotreated.	EC50	48	Crustacea	3mg/L	2
	EC50	72	Algae or other aquatic plants	>1-mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	0.0073mg/L	4
6. <b>b</b>	EC50	48	Crustacea	3.78mg/L	5
toluene	EC50	72	Algae or other aquatic plants	12.5mg/L	4
	BCF	24	Algae or other aquatic plants	10mg/L	4
	NOEC	168	Crustacea	0.74mg/L	5
Legend:			HA Registered Substances - Ecotoxicological		

V3.12 (QSAR) - Aquatic Toxicity Data 2: Europe ECHA Registered substances - Economicogical miorination - Aquatic Toxicity S. EPIVIN Sulle V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

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

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark.

When spilled this product may act as a typical oil, causing a film, sheen, emulsion or sludge at or beneath the surface of the body of water.

When released in the environment, alkanes don't undergo rapid biodegradation, because they have no functional groups (like hydroxyl or carbonyl) that are needed by most organisms in order to metabolize the compound.

For petroleum distillates:

Environmental fate:

When petroleum substances are released into the environment, four major fate processes will take place: dissolution in water, volatilization, biodegradation and adsorption. For xylenes :

log Koc : 2.05-3.08 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 16

Terrestrial fate:: Measured Koc values of 166 and 182, indicate that 3-xylene is expected to have moderate mobility in soil. DO NOT discharge into sewer or waterways.

#### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
methyl ethyl ketoxime	LOW	LOW
xylene	HIGH (Half-life = 360 days)	LOW (Half-life = 1.83 days)
toluene	LOW (Half-life = 28 days)	LOW (Half-life = 4.33 days)

#### **Bioaccumulative potential**

Ingredient	Bioaccumulation
methyl ethyl ketoxime	LOW (BCF = 5.8)
xylene	MEDIUM (BCF = 740)
toluene	LOW (BCF = 90)

## Mobility in soil

Ingredient	Mobility
methyl ethyl ketoxime	LOW (KOC = 130.8)
toluene	LOW (KOC = 268)

#### 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>		

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. The package must be disposed according to the manufacturer's directions taking into account the material it is made of. Packages which hazardous content have been appropriately treated and removed may be recycled.

The hazardous substance must only be disposed if it has been treated by a method that changed the characteristics or composition of the substance and it is no longer hazardous.

## **SECTION 14 TRANSPORT INFORMATION**

### Labels Required

 Marine Pollutant
 NO

 HAZCHEM
 -3YE

#### Land transport (UN)

UN number	1263
UN proper shipping name	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)
Transport hazard class(es)	Class 3 Subrisk Not Applicable
Packing group	1
Environmental hazard	Not Applicable
Special precautions for user	Special provisions     163; 367       Limited quantity     5 L

#### Air transport (ICAO-IATA / DGR)

UN number	1263			
UN proper shipping name	Paint (including paint, la	cquer, enamel, stain, shellac, varnish, po	olish, liquid filler an	ıd liquid lacquer base)
Transport hazard class(es)	ICAO/IATA Class ICAO / IATA Subrisk ERG Code	3 Not Applicable 3L		
Packing group	II			
Environmental hazard	Not Applicable			
Special precautions for user	Special provisions Cargo Only Packing Ir Cargo Only Maximum Passenger and Cargo Passenger and Cargo Passenger and Cargo	Qty / Pack Packing Instructions	A3 A72 A192 364 60 L 353 5 L Y341	
	Passenger and Cargo Limited Maximum Qty / Pack		1 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)		
Transport hazard class(es)	IMDG Class 3 IMDG Subrisk Not Applicable		
Packing group	II		
Environmental hazard	Not Applicable		
Special precautions for user	EMS NumberF-E , S-ESpecial provisions163 367Limited Quantities5 L		

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

Not Applicable

## SECTION 15 REGULATORY INFORMATION

HSR Number	Group Standard	Group Standard		
HSR002669	Surface Coatings and Colourants (Flammable, Toxic	Surface Coatings and Colourants (Flammable, Toxic [6.7]) Group Standard 2017		
METHYL ETHYL KETOX	ME IS FOUND ON THE FOLLOWING REGULATORY LISTS			
Chemical Footprint Project	t - Chemicals of High Concern List	New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification		
New Zealand Approved Hazardous Substances with controls		of Chemicals - Classification Data		
New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals		New Zealand Inventory of Chemicals (NZIoC)		
XYLENE IS FOUND ON T	HE 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)		
NAPHTHA PETROLEUM	, LIGHT, HYDROTREATED. IS FOUND ON THE FOLLOWING	REGULATORY LISTS		
Chemical Footprint Project	t - Chemicals of High Concern List	New Zealand Inventory of Chemicals (NZIoC)		
TOLUENE IS FOUND ON	THE FOLLOWING REGULATORY LISTS			
Chemical Footprint Project	t - Chemicals of High Concern List	New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification		
International Agency for R	esearch on Cancer (IARC) - Agents Classified by the IARC	of Chemicals - Classification Data		
Monographs		New Zealand Inventory of Chemicals (NZIoC)		
New Zealand Approved Hazardous Substances with controls		New Zealand Workplace Exposure Standards (WES)		

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals

#### 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	
3.1B	100 L in containers greater than 5 L 250 L in containers up to and including 5 L	50 L 50 L	

### **Certified Handler**

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

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

Refer Group Standards for further information

#### **Tracking Requirements**

Not Applicable

#### National Inventory Status

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	07/07/2020
Initial Date	07/07/2020

## 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  $\mathsf{Limit}_\circ$ 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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