# RESENE MULTIPURPOSE REDUCER RESENE AUTOMOTIVE & LIGHT INDUSTRIAL

Version No: 1.2.7.9

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

Issue Date: **13/08/2021**Print Date: **13/08/2021**L.GHS.NZL.EN

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

### **Product Identifier**

Product name	RESENE MULTIPURPOSE REDUCER
Chemical Name	Not Applicable
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	7212
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### Details of the supplier of the safety data sheet

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

## Emergency telephone number

Association / Organisation	NZ POISONS (24hr 7 days)	CHEMWATCH EMERGENCY RESPONSE
Emergency telephone numbers	0800 764766	+61 2 9186 1132
Other emergency telephone numbers	0800 737636	+64 800 700 112

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 [1]	Specific target organ toxicity - repeated exposure Category 2, Flammable Liquid Category 2, Skin Corrosion/Irritation Category 2, Eye Irritation Category 2, Reproductive Toxicity Category 2, Aspiration Hazard Category 1, Chronic Aquatic Hazard 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	3.1B, 6.1E (aspiration), 6.3A, 6.4A, 6.8B, 6.9B, 9.1C

### Label elements

Hazard pictogram(s)







Signal word Danger

# Hazard statement(s)

H373	May cause damage to organs through prolonged or repeated exposure. (Inhalation)
H225	Highly flammable liquid and vapour.
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.
H412	Harmful to aquatic life with long lasting effects.

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### 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 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.
P273	Avoid release to the environment.
P264	Wash all exposed external body areas thoroughly after handling.

# Precautionary statement(s) Response

P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician/first aider.
P308+P313	IF exposed or concerned: Get medical advice/ attention.
P331	Do NOT induce vomiting.
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.
P314	Get medical advice/attention if you feel unwell.
P337+P313	If eye irritation persists: Get medical advice/attention.
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].
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.

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

### Substances

See section below for composition of Mixtures

### Mixtures

CAS No	%[weight]	Name
95-63-6	1-10	1,2,4-trimethyl benzene
108-67-8	1-10	1.3.5-trimethyl benzene
1330-20-7	0.1-1	xylene
108-88-3	20-40	toluene
78-93-3	1-10	methyl ethyl ketone
67-64-1	20-40	acetone
123-86-4	10-20	n-butyl acetate
Legend:	Classified by Chemwatch; 2. Classification draw     Classification drawn from C&L * EU IOELVs av.	n from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; ailable

# **SECTION 4 First aid measures**

### **Description of first aid measures**

If this product comes in contact with the eyes:

# Eye Contact

**Skin Contact** 

- Wash out immediately with fresh running water.
- Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.
- Seek medical attention without delay; if pain persists or recurs seek medical attention.
- Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

### If skii

- 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.

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Inhalation	If fumes or combustion products are inhaled remove from contaminated area.
	If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus.

If swallowed do **NOT** induce vomiting.

If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.

Observe the patient carefully.

- Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.
- Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.
- ► Seek medical advice.

### 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

Ingestion

Fire Incompatibility	P 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

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

# Conditions for safe storage, including any incompatibilities

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

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### **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
New Zealand Workplace Exposure Standards (WES)	methyl ethyl ketone	MEK (Methyl ethyl ketone, 2-Butanone)	150 ppm / 445 mg/m3	890 mg/m3 / 300 ppm	Not Available	bio-Exposure can also be estimated by biological monitoring.
New Zealand Workplace Exposure Standards (WES)	acetone	Acetone	500 ppm / 1185 mg/m3	2375 mg/m3 / 1000 ppm	Not Available	bio-Exposure can also be estimated by biological monitoring.
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
1,2,4-trimethyl benzene	140 mg/m3	360 mg/m3	2,200 mg/m3
1,2,4-trimethyl benzene	Not Available	Not Available	480 ppm
1,3,5-trimethyl benzene	Not Available	Not Available	480 ppm
xylene	Not Available	Not Available	Not Available
toluene	Not Available	Not Available	Not Available
methyl ethyl ketone	Not Available	Not Available	Not Available
acetone	Not Available	Not Available	Not Available
n-butyl acetate	Not Available	Not Available	Not Available

Ingredient	Original IDLH	Revised IDLH
1,2,4-trimethyl benzene	Not Available	Not Available
1,3,5-trimethyl benzene	Not Available	Not Available
xylene	900 ppm	Not Available
toluene	500 ppm	Not Available
methyl ethyl ketone	3,000 ppm	Not Available
acetone	2,500 ppm	Not Available
n-butyl acetate	1,700 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.

Odour Threshold Value: 3.6 ppm (detection), 699 ppm (recognition)

NOTE: Detector tubes measuring in excess of 40 ppm, are available.

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.

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.

For methyl ethyl ketone:

Odour Threshold Value: Variously reported as 2 ppm and 4.8 ppm

 $Odour\ threshold: 2\ ppm\ (detection); 5\ ppm\ (recognition)\ 25\ ppm\ (easy\ recognition); 300\ ppm\ IRRITATING$ 

Exposures at or below the recommended TLV-TWA are thought to prevent injurious systemic effects and to minimise objections to odour and irritation.

### **Exposure controls**

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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. For esters: Do NOT use natural rubber, butyl rubber, EPDM or polystyrene-containing materials. 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. 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.

Type AX Filter of sufficient capacity.

# **SECTION 9 Physical and chemical properties**

Information on basic	physica	al and chemical	properties

Appearance	Clear colourless liquid with strong solvent odour		
Physical state	Liquid	Relative density (Water = 1)	0.81-0.84
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)	95-115	Molecular weight (g/mol)	Not Available
Flash point (°C)	2-4	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	HIGHLY FLAMMABLE.	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	100
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	826

# **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

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Hazardous decomposition products

Inhalation(Rat) LC50; 12.5-28.8 mg/l4h<sup>[2]</sup>

Oral(Rat) LD50; 636  $mg/kg^{[2]}$ 

See section 5

SECTION 44 Taxing la gine li	 				
SECTION 11 Toxicological in	ntormation				
Information on toxicological ef	ffects				
Inhaled	Inhalation of vapours may cause drowsiness and dizziness.  The main effects of simple aliphatic esters are narcosis and irritation and anaesthesia at higher concentrations.  A significant number of individuals exposed to mixed trimethylbenzenes complained of nervousness, tension, anxiety and asthmatic bronchitis.  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 Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may be damaging to the health of the individual.				
Ingestion	At sufficiently high doses the material may be hepatotoxic (i.e. poisonous to the liver).  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.  Considered an unlikely route of entry in commercial/industrial environments.				
Skin Contact	The material may accentuate any pre-existing dermatitis condition  Skin contact with the material may damage the health of the individual; systemic effects may result following 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.  The material produces moderate skin irritation; evidence exists, or practical experience predicts, that the material either  Produces moderate inflammation of the skin in a substantial number of individuals following direct contact, and/or  produces significant, but moderate, inflammation when applied to the healthy intact skin of animals (for up to four hours), such inflammation being present twenty-four hours or more after the end of the exposure period.				
Еуе	The liquid produces a high level of eye discomfort and is The liquid may produce eye discomfort and is capable of		= :		
Chronic	Long-term exposure to respiratory irritants may result in disease of the airways involving difficult breathing and related systemic problems.  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.  There is sufficient evidence to establish a causal relationship between human exposure to the material and impaired fertility  Limited evidence suggests that repeated or long-term occupational exposure may produce cumulative health effects involving organs or biochemical systems.  Prolonged or repeated contact with xylenes may cause defatting dermatitis with drying and cracking.  Prolonged or repeated skin contact may cause drying with cracking, irritation and possible dermatitis following.				
RESENE MULTIPURPOSE REDUCER	TOXICITY  Not Available		IRRITATION  Not Available		
	TOXICITY			IRRITATION	
1,2,4-trimethyl benzene	Dermal (rabbit) LD50: >3160 mg/kgl <sup>2</sup> ]			Not Available	
	Inhalation(Rat) LC50; 10.2 mg/L4h <sup>[1]</sup>				
	Oral(Rat) LD50; 6000 mg/kg <sup>[1]</sup>				
	TOXICITY	IRI	RITATION		
	dermal (rat) LD50: >3460 mg/kg <sup>[1]</sup>		e (rabbit): 500 mg/24h mild		
1,3,5-trimethyl benzene	Inhalation(Rat) LC50; 10.2 mg/L4h <sup>[1]</sup>	Eye	e: adverse effect observed (irrita	ating) <sup>[1]</sup>	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Oral(Rat) LD50: 6000 mg/kg <sup>[1]</sup>		in (rabbit): 20 mg/24h moderate	<u> </u>	
		Ski	in: adverse effect observed (irrita	ating) <sup>[1]</sup>	
	TOXICITY	IR	RITATION		
	Dermal (rabbit) LD50: >1700 mg/kg <sup>[2]</sup>	Ey	/e (human): 200 ppm irritant		
	Inhalation(Rat) LC50; 5922 ppm4h <sup>[1]</sup>	Ey	/e (rabbit): 5 mg/24h SEVERE		
xylene	Oral(Mouse) LD50; 2119 mg/kg <sup>[2]</sup>	Ey	ve (rabbit): 87 mg mild		
			ve: adverse effect observed (irrit		
			kin (rabbit):500 mg/24h moderat		
		Sk	kin: adverse effect observed (irri	tating) <sup>[1]</sup>	
	TOVICITY	ı.	TATION		
	TOXICITY  Demoi (rehbit)   DE0)   5000 mg//se <sup>[1]</sup>		(rabbit): 2mg/24b - SEVERE		
toluene	Dermal (rabbit) LD50: >5000 mg/kg <sup>[1]</sup>	⊨ye	(rabbit): 2mg/24h - SEVERE		

Eye (rabbit):0.87 mg - mild

Eye (rabbit):100 mg/30sec - mild

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	Li	1		
		Eye: adverse effect observed (irritating) <sup>[1]</sup>		
		Skin (rabbit):20 mg/24h-moderate		
		Skin (rabbit):	500 mg - moderate	
		Skin: adverse	e effect observed (irritating) <sup>[1]</sup>	
		Skin: no adve	erse effect observed (not irritating) <sup>[1]</sup>	
	TOXICITY		IRRITATION	
	Dermal (rabbit) LD50: ~6400-8000 mg/kg <sup>[2]</sup>		Eye (human): 350 ppm -irritant	
methyl ethyl ketone	Inhalation(Mouse) LC50; 32 mg/L4h <sup>[2]</sup>		Eye (rabbit): 80 mg - irritant	
	Oral(Rat) LD50; 2054 mg/kg <sup>[1]</sup>		Skin (rabbit): 402 mg/24 hr - mild	
			Skin (rabbit):13.78mg/24 hr open	
	TOXICITY	IRRITATION		
			00 nnm irritant	
	Dermal (rabbit) LD50: 20 mg/kg <sup>[2]</sup>		00 ppm - irritant	
	Inhalation(Mouse) LC50; 44 mg/L4h <sup>[2]</sup>		mg/24hr -moderate	
acetone	Oral(Rat) LD50; 1738 mg/kg <sup>[1]</sup>	Eye (rabbit): 3.9	95 mg - SEVERE	
		Eye: adverse ef	fect observed (irritating) <sup>[1]</sup>	
		Skin (rabbit): 50	0 mg/24hr - mild	
		Skin (rabbit):39	5mg (open) - mild	
		Skin: no advers	e effect observed (not irritating) <sup>[1]</sup>	
	TOXICITY	IRRITATION		
	Dermal (rabbit) LD50: >14100 mg/kg <sup>[2]</sup>	Eye ( human):	300 mg	
	Inhalation(Rat) LC50; 0.74 mg/l4h <sup>[2]</sup>	Eye (rabbit): 20 mg (open)-SEVERE		
n-butyl acetate	Oral(Rat) LD50; >3200 mg/kg <sup>[2]</sup>	Eye (rabbit): 20 mg/24h - moderate		
		Eye: no adverse effect observed (not irritating) <sup>[1]</sup>		
		Skin (rabbit): 500 mg/24h-moderate		
		Skin: no advers	se effect observed (not irritating) <sup>[1]</sup>	
Legend:	Nalue obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances			
RESENE MULTIPURPOSE REDUCER	Data demonstrate that during inhalation exposure,arom	natic hydrocarbons underg	o substantial partitioning into adipose tissues.	
1,2,4-TRIMETHYL BENZENE	CHEMWATCH 2325 1,3,5-trimethylbenzene			
1,3,5-TRIMETHYL BENZENE	The material may be irritating to the eye, with prolonged contact causing inflammation. CHEMWATCH 12171 1,2,4-trimethylbenzene			
	Reproductive effector in rats			
XYLENE	The substance is classified by IARC as Group 3:  NOT classifiable as to its carcinogenicity to humans.			
	Evidence of carcinogenicity may be inadequate or limit	ed in animal testing.		
METHYL ETHYL KETONE	Methyl ethyl ketone is considered to have a low order of toxicity; however methyl ethyl ketone is often used in combination with other solvents and the toxic effects of the mix may be greater than either solvent alone.			
RESENE MULTIPURPOSE	, ,			
REDUCER & 1,2,4-TRIMETHYL				
BENZENE & 1,3,5-TRIMETHYL BENZENE & METHYL ETHYL	Asthma-like symptoms may continue for months or eve	n years after exposure to	the material ceases.	
KETONE				
RESENE MULTIPURPOSE REDUCER & N-BUTYL	Generally, linear and branched-chain alkyl esters are hydrolysed to their component alcohols and carboxylic acids in the intestinal tract, blood			
ACETATE	and most tissues throughout the body.			
RESENE MULTIPURPOSE REDUCER & 1,2,4-TRIMETHYL	For trimethylbenzenes:			
BENZENE & 1,3,5-TRIMETHYL	Absorption of 1,2,4-trimethylbenzene occurs after oral,	inhalation, or dermal expo	sure.	
BENZENE				
RESENE MULTIPURPOSE	For toluene: Acute Toxicity			
REDUCER & TOLUENE	Humans exposed to intermediate to high levels of tolue		e experience adverse central nervous system effects ranging	
	from headaches to intoxication, convulsions, narcosis,	and death.		
RESENE MULTIPURPOSE REDUCER & ACETONE	for acetone: The acute toxicity of acetone is low.			
1,2,4-TRIMETHYL BENZENE &	Other Toxicity data is available for CHEMWATCH 12172 1,2,3-trimethylbenzene			
1,3,5-TRIMETHYL BENZENE	2 Ionony data to diffusion for OTIENWATION 1217	,_,00		

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1,3,5-TRIMETHYL BENZENE &
XYLENE & TOLUENE &
METHYL ETHYL KETONE &
ACETONE & N-BUTYL
ACETATE

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	<b>✓</b>
Mutagenicity	×	Aspiration Hazard	<b>✓</b>

Legend:

🗶 – Data either not available or does not fill the criteria for classification

Data available to make classification

# **SECTION 12 Ecological information**

### Toxicity

RESENE MULTIPURPOSE REDUCER	Endpoint	Test Duration (hr)	Species	Value	Source	
	Not Available	Not Available	Not Available	Not Available	Not Ava	ilable
	Endpoint	Test Duration (hr)	Species		Value	Source

# 1,2,4-trimethyl benzene

Endpoint	Test Duration (hr)	Species	Value	Source
BCF	1344h	Fish	31-207	7
EC50(ECx)	96h	Algae or other aquatic plants	2.356mg/l	2
LC50	96h	Fish	3.41mg/l	2
EC50	96h	Algae or other aquatic plants	2.356mg/l	2
EC50	48h	Crustacea	ca.6.14mg/l	1

# 1,3,5-trimethyl benzene

Endpoint	Test Duration (hr)	Species	Value	Source
LC50	96h	Fish	5.216mg/l	2
EC50	48h	Crustacea	13mg/L	5
BCF	1680h	Fish	23-342	7
NOEC(ECx)	384h	Crustacea	0.257mg/l	2
EC50	96h	Algae or other aquatic plants	3.084mg/l	2

# xylene

Endpoint	Test Duration (hr)	Species	Value	Source
EC50	72h	Algae or other aquatic plants	4.6mg/l	2
LC50	96h	Fish	2.6mg/l	2
EC50	48h	Crustacea	1.8mg/l	2
NOEC(ECx)	73h	Algae or other aquatic plants	0.44mg/l	2

# toluene

Endpoint	Test Duration (hr)	Species	Value	Source
LC50	96h	Fish	5-35mg/l	4
EC50	48h	Crustacea	3.78mg/L	5
NOEC(ECx)	168h	Crustacea	0.74mg/L	5
FC50	96h	Algae or other aquatic plants	>376 71mg/l	4

# methyl ethyl ketone

Endpoint	Test Duration (hr)	Species	Value	Source
NOEC(ECx)	48h	Crustacea	68mg/I	2
EC50	72h	Algae or other aquatic plants	1972mg/l	2
LC50	96h	Fish	>324mg/L	4
EC50	48h	Crustacea	308mg/l	2
EC50	96h	Algae or other aquatic plants	>500mg/l	4

# acetone

Endpoint	Test Duration (hr)	Species	Value	Source
NOEC(ECx)	48h	Fish	0.001mg/L	4
LC50	96h	Fish	>100mg/l	4

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EC50	48h	Crustacea	6098.4mg/L	5
EC50	96h	Algae or other aquatic plants	9.873-27.684mg/l	4

	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50(ECx)	96h	Fish	18mg/l	2
tyl acetate	EC50	72h	Algae or other aquatic plants	246mg/l	2
	LC50	96h	Fish	18mg/l	2
	EC50	48h	Crustacea	32mg/l	1

Legend:

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite 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.

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

n-buty

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 methyl ethyl ketone: log Kow : 0.26-0.69 log Koc : 0.69 Koc : 34

Half-life (hr) air : 2.3

Half-life (hr) H2O surface water : 72-288 Henry's atm m3 /mol: 1.05E-05 BOD 5 : 1.5-2.24, 46%

COD: 2.2-2.31, 100% ThOD: 2.44

BCF: 1
Environmental fate:

TERRESTRIAL FATE: Measured Koc values of 29 and 34 were obtained for methyl ethyl ketone in silt loams.

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 ketones:

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

Hydrolysis may also involve the addition of water to ketones to yield ketals under mild acid conditions.

For toluene: log Kow : 2.1-3 log Koc : 1.12-2.85 Koc : 37-260 log Kom : 1.39-2.89 Half-life (hr) air : 2.4-104

Half-life (hr) H2O surface water : 5.55-528 Half-life (hr) H2O ground : 168-2628 Half-life (hr) soil : <48-240 Henry's Pa m3 /mol: 518-694 Henry's atm m3 /mol: 5.94E-03 BOD 5 0.86-2.12, 5% COD : 0.7-2.52,21-27%

ThOD: 3.13 BCF: 1.67-380 log BCF: 0.22-3.28 Environmental fate:

**Transport:** The majority of toluene evaporates to the atmosphere from the water and soil. It is moderately retarded by adsorption to soils rich in organic material (Koc = 259), therefore, transport to ground water is dependent on the soil composition.

for acetone: log Kow: -0.24 Half-life (hr) air

Half-life (hr) air: 312-1896 Half-life (hr) H2O surface water: 20 Henry's atm m3 /mol: 3.67E-05 BOD 5: 0.31-1.76.46-55%

COD: 1.12-2.07

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ThOD: 2.2 BCF: 0.69

#### **Environmental fate:**

Acetone preferentially locates in the air compartment when released to the environment

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)
toluene	LOW (Half-life = 28 days)	LOW (Half-life = 4.33 days)
methyl ethyl ketone	LOW (Half-life = 14 days)	LOW (Half-life = 26.75 days)
acetone	LOW (Half-life = 14 days)	MEDIUM (Half-life = 116.25 days)
n-butyl acetate	LOW	LOW

### **Bioaccumulative potential**

Ingredient	Bioaccumulation
1,2,4-trimethyl benzene	LOW (BCF = 275)
1,3,5-trimethyl benzene	LOW (BCF = 342)
xylene	MEDIUM (BCF = 740)
toluene	LOW (BCF = 90)
methyl ethyl ketone	LOW (LogKOW = 0.29)
acetone	LOW (BCF = 0.69)
n-butyl acetate	LOW (BCF = 14)

### Mobility in soil

•	
Ingredient	Mobility
1,2,4-trimethyl benzene	LOW (KOC = 717.6)
1,3,5-trimethyl benzene	LOW (KOC = 703)
toluene	LOW (KOC = 268)
methyl ethyl ketone	MEDIUM (KOC = 3.827)
acetone	HIGH (KOC = 1.981)
n-butyl acetate	LOW (KOC = 20.86)

### **SECTION 13 Disposal considerations**

# Waste treatment methods

▶ Containers may still present a chemical hazard/ danger when empty.

Legislation addressing waste disposal requirements may differ by country, state and/ or territory.

### Product / Packaging disposal

DO NOT allow wash water from cleaning or process equipment to enter drains
 Recycle wherever possible.

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.

# 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.

Do not allow product or wash water from cleaning or process equipment to enter drains or watercourses. It may be necessary to collect all wash water for treatment before disposal. The generation of waste should be avoided or minimised wherever possible.

Disposal of this product should comply with Hazard Substances (Disposal) Notice 2017 (EPA Consolidation 30 April 2021) and local regulations.

Flammable substance can be disposed of if the substance is treated by using a method that changes the characteristics or composition of the substance so that the substance is no longer a hazardous substance, or exporting the substance from New Zealand as waste.

For treating and discharging processes contact your local authority.

The treating may include burning the substance if the burning is managed to ensure that no person, or place where a person may legally be present.

The substance may be discharged into the environment as waste or disposed into a landfill if the substance will not come into contact with oxidising substances and where is no ignition source which is capable to ignite the substance.

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# **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				
Environmental hazard	Not Applicable			
Special precautions for user	Special provisions 163; 367  Limited quantity 5 L			

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

Till transport (10/10 1/1/1/ 201	7			
UN number	1263			
UN proper shipping name	Paint (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base); Paint related material (including paint thinning or reducing compounds)			
Transport hazard class(es)	ICAO/IATA Class 3 ICAO / IATA Subrisk Not Applicable ERG Code 3L			
Packing group	II.			
Environmental hazard	Not Applicable			
Special precautions for user	Special provisions Cargo Only Packing Instructions Cargo Only Maximum Qty / Pack Passenger and Cargo Packing Instructions Passenger and Cargo Maximum Qty / Pack Passenger and Cargo Limited Quantity Packing Instructions Passenger and Cargo Limited Maximum Qty / Pack		A3 A72 A192 364 60 L 353 5 L Y341 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				
Environmental hazard	Not Applicable			
Special precautions for user	EMS Number F-E , S-E Special provisions 163 367 Limited Quantities 5 L			

# 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		
1,2,4-trimethyl benzene	Not Available		
1,3,5-trimethyl benzene	Not Available		

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Product name	Group
xylene	Not Available
toluene	Not Available
methyl ethyl ketone	Not Available
acetone	Not Available
n-butvl acetate	Not Available

### Transport in bulk in accordance with the ICG Code

Product name	Ship Type
1,2,4-trimethyl benzene	Not Available
1,3,5-trimethyl benzene	Not Available
xylene	Not Available
toluene	Not Available
methyl ethyl ketone	Not Available
acetone	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

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

#### 1,2,4-trimethyl benzene is found on the following regulatory lists

New Zealand Approved Hazardous Substances with controls

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

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

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

New Zealand Inventory of Chemicals (NZIoC)

of Chemicals - Classification Data

# 1,3,5-trimethyl benzene is found on the following regulatory lists

New Zealand Approved Hazardous Substances with controls

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

New Zealand Inventory of Chemicals (NZIoC)

### xvlene is found on the following regulatory lists

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

New Zealand Approved Hazardous Substances with controls

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

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

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

### toluene is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

New Zealand Approved Hazardous Substances with controls

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

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

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

### methyl ethyl ketone is found on the following regulatory lists

New Zealand Approved Hazardous Substances with controls

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

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

# New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

# acetone is found on the following regulatory lists

New Zealand Approved Hazardous Substances with controls

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

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

# New Zealand Inventory of Chemicals (NZIoC)

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

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

# New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

### **Hazardous Substance Location**

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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				1 L

### **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	13/08/2021
Initial Date	11/07/2018

### **SDS Version Summary**

Version	Date of Update	Sections Updated
0.2.7.9	12/08/2021	Acute Health (swallowed), 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 $_{\circ}$ 

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

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FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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