RESENE ENGINE DEGREASER RESENE AUTOMOTIVE & LIGHT INDUSTRIAL

Version No: 2.5.7.9

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

lssue Date: **17/08/2021** Print Date: **17/08/2021** L.GHS.NZL.EN

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

roduct Identifier	
Product name	RESENE ENGINE DEGREASER
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	ises 10876	
Relevant identified	Ises 10876	

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]	Flammable Liquids Category 3, Hazardous to the Aquatic Environment Long-Term Hazard Category 2, Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2
Legend:	1. Classified by Chernwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI
Determined by Chemwatch using GHS/HSNO criteria	3.1C, 6.3A, 6.4A, 9.1B

Label elements

Hazard pictogram(s)	
Signal word	Warning

Hazard statement(s)

H226	Flammable liquid and vapour.
H411	Toxic to aquatic life with long lasting effects.
H315	Causes skin irritation.
H319	Causes serious eye irritation.

Precautionary statement(s) Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233	Keep container tightly closed.
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.
P280	Wear protective gloves, protective clothing, eye protection and face protection.
P264	Wash all exposed external body areas thoroughly after handling.

Precautionary statement(s) Response

P370+P378	In case of fire: Use alcohol resistant foam or normal protein foam to extinguish.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P391	Collect spillage.
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.

Precautionary statement(s) Disposal

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

SECTION 3 Composition / information on ingredients

P501

Substances

See section below for composition of Mixtures

Ingredients are required by the Hazard Substances (Safety Data Sheets) Notice 2017, EPA consolidation 30 April 2021 to be identified:

Mixtures

CAS No	%[weight]	Name
64742-82-1.	10-20	naphtha petroleum. heavy. hydrodesulfurised
9016-45-9	1-10	nonylphenol. ethoxylated
68412-54-4	1-10	nonylphenol ethoxylate, branched
8008-20-6	60-80	kerosene
Legend:	1. Classified by Chemwatch; 2. C 4. Classification drawn from C&L	Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; ; * EU IOELVs available

SECTION 4 First aid measures

Description of first aid measures

Eye Contact	 If this product comes in contact with the eyes: Wash out immediately with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Seek medical attention if pain persists or recurs. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhalation	 If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.
Ingestion	 If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Seek medical advice.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Extinguishing media

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Foam.
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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 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 container for disposal. 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	 Even with proper grounding and bonding, this material can still accumulate an electrostatic charge. Containers, even those that have been emptied, may contain explosive vapours. 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 flammable liquid storage area.

Conditions for safe storage, including any incompatibilities

Suitable container	Packing as supplied by manufacturer.
Storage incompatibility	 may ignite in contact with strong oxidisers attack some plastics, rubber and coatings may generate electrostatic charges on flow or agitation due to low conductivity.

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
New Zealand Workplace Exposure Standards (WES)	naphtha petroleum, heavy, hydrodesulfurised	White spirits (Stoddard solvent)	100 ppm / 525 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	kerosene	Oil mist, mineral	5 mg/m3	10 mg/m3	Not Available	om-Sampled by a method that does not collect vapour.

Continued...

Ingredient	TEEL-1	TEEL-1 TEEL-2		TEEL-3	
naphtha petroleum, heavy, hydrodesulfurised	300 mg/m3	1,800 mg/m3		29500** mg/m3	
nonylphenol, ethoxylated	4.5 mg/m3	49 mg/m3		300 mg/m3	
nonylphenol, ethoxylated	43 mg/m3	470 mg/m3		5,400 mg/m3	
nonylphenol ethoxylate, branched	30 mg/m3	330 mg/m3		2,000 mg/m3	
kerosene	Not Available	Not Available		4,800 mg/m3	
Ingredient	Original IDLH	Original IDLH			
naphtha petroleum, heavy, hydrodesulfurised	20,000 mg/m3	20,000 mg/m3		ot Available	
nonylphenol, ethoxylated	Not Available	Not Available		Not Available	
nonylphenol ethoxylate, branched	Not Available		Not Available		
kerosene	2,500 mg/m3		Not Available		

Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	upational Exposure Band Rating Occupational Exposure Band Limit	
nonylphenol, ethoxylated	≤ 0.1 ppm		
nonylphenol ethoxylate, branched	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		

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

For white spirit:

Low and high odour thresholds of 5.25 and 157.5 mg/m3, respectively, were considered to provide a rather useful index of odour as a warning property.

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 kerosene CAS 8008-20-6 TLV TWA: 100 mg/m3 as total hydrocarbon vapour Skin A3 OEL TWA: 14 ppm, 100 mg/m3 [NIOSH, 1985] REL TWA: 150 ppm [Shell] CEL TWA: 300 ppm, 900 mg/m3 (CEL = Chemwatch Exposure Limit)

for petroleum distillates:

CEL TWA: 500 ppm, 2000 mg/m3 (compare OSHA TWA) (CEL = Chemwatch Exposure Limit)

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	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	 Overalls. Some plastic personal protective equipment (PPE) (e.g. gloves, aprons, overshoes) are not recommended as they may produce static electricity. 		

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 A Filter of sufficient capacity.

Information on basic physical and chemical properties

Appearance	Clear solution		
Physical state	Liquid	Relative density (Water = 1)	0.82
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)	155-160	Molecular weight (g/mol)	Not Available
Flash point (°C)	40	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	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)	88
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	717

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	The acute toxicity of inhaled alkylbenzenes is best described by central nervous system depression. Inhalation of vapours may cause drowsiness and dizziness. 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 Exposure to white spirit, in a controlled inhalation study using volunteers either at rest or during exercise, (1000 or 2500 mg/m3 for 30 minutes) produced a linear relationship between alveolar and arterial concentrations of the individual solvent components.
Ingestion	Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual. Nonionic surfactants may produce localised irritation of the oral or gastrointestinal mucosa and induce vomiting and mild diarrhoea. 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. Considered an unlikely route of entry in commercial/industrial environments.
Skin Contact	The material may accentuate any pre-existing dermatitis condition One of the mechanisms of skin irritation caused by surfactants is considered to be denaturation of the proteins of skin. 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 liquid may be miscible with fats or oils and may degrease the skin, producing a skin reaction described as non-allergic contact dermatitis. The material produces severe skin irritation; evidence exists, or practical experience predicts, that the material either: produces severe inflammation of the skin in a substantial number of individuals following direct contact, and/or produces significant and severe 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 th Aromatic hydrocarbons may produce skin irritation,	e end of the exposure period. vasodilation with erythema and changes in endothelial cell permeability.		
		at the material may cause eye irritation in a substantial number of individuals and/or may twenty-four hours or more after instillation into the eye(s) of experimental animals.		
Eye	Some nonionic surfactants may produce a localised produced by other substances and lead to corneal in	anaesthetic effect on the cornea; this may effectively eliminate the warning discomfort njury.		
Petroleum hydrocarbons may produce pain after direct contact with the eyes. The vapour when concentrated has pronounced eye irritation effects and this gives some warning of high vapour concentration				
Chronic	Repeated or prolonged exposure to mixed hydrocar memory loss, tremor in the fingers and tongue, verti loss and anaemia and degenerative changes in the Follicular dermatitis may develop rapidly on repeate Prolonged or repeated skin contact may cause degr On the basis, primarily, of animal experiments, conc respect of the available information, however, there	d immersion of the hands and forearms in white spirits. easing with drying, cracking and dermatitis following. ern has been expressed that the material may produce carcinogenic or mutagenic effects; in presently exists inadequate data for making a satisfactory assessment. Ing with cracking, irritation and possible dermatitis following.		
	ΤΟΧΙΟΙΤΥ	IRRITATION		
RESENE ENGINE DEGREASER	Not Available	Not Available		
naphtha petroleum, heavy, hydrodesulfurised	TOXICITY Dermal (rabbit) LD50: >1900 mg/kg ^[1] Inhalation(Rat) LC50; >1.58 mg/l4h ^[1] Oral(Rat) LD50; >4500 mg/kg ^[1]	IRRITATION Eye: no adverse effect observed (not irritating) ^[1] Skin: adverse effect observed (irritating) ^[1] Skin: no adverse effect observed (not irritating) ^[1]		
	ТОХІСІТҮ	IRRITATION		
	Dermal (rabbit) LD50: 1851.2 mg/kg ^[2]	Eye (rabbit): 5 mg SEVERE		
nonylphenol, ethoxylated	Oral(Rat) LD50; 1310 mg/kg ^[2]	Eye: adverse effect observed (irritating) ^[1]		
···· , ····		Skin (human): 15 mg/3D mild		
		Skin (rabbit): 500 mg mild Skin: adverse effect observed (irritating) ^[1]		
	ΤΟΧΙΟΙΤΥ	IRRITATION		
	Dermal (rabbit) LD50: >2000 mg/kg ^[1]	Eye : Severe		
nonylphenol ethoxylate, branched	Oral(Rat) LD50; >2000 mg/kg ^[1]	Eye: no adverse effect observed (not irritating) ^[1]		
		Skin : Severe		
		Skin: no adverse effect observed (not irritating) ^[1]		
	ΤΟΧΙΟΙΤΥ	IRRITATION		
	Dermal (rabbit) LD50: >2000 mg/kg ^[2]	Eye: no adverse effect observed (not irritating) ^[1]		
kerosene	Inhalation(Rat) LC50; >4.3 mg/l4h ^[1]	Skin (rabbit): 500 mg SEVERE		
	Oral(Rat) LD50; >5000 mg/kg ^[2]	Skin: adverse effect observed (irritating) ^[1]		
Legend:	1. Value obtained from Europe ECHA Registered S specified data extracted from RTECS - Register of 7	ubstances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise foxic Effect of chemical Substances		
RESENE ENGINE DEGREASER	Data demonstrate that during inhalation exposure,a	romatic hydrocarbons undergo substantial partitioning into adipose tissues.		
	No significant acute toxicological data identified in lit	terature search.		
NAPHTHA PETROLEUM, HEAVY,	For C9 aromatics (typically trimethylbenzenes - TME Acute Toxicity	3s)		

NONYLPHENOL, ETHOXYLATED

KEROSENE

RESENE ENGINE DEGREASER & NAPHTHA PETROLEUM, HEAVY, 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:

The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatilis (nonallergic).

The material may produce severe skin irritation after prolonged or repeated exposure, and may produce a contact dermatitis (nonallergic).

The material may produce severe irritation to the eye causing pronounced inflammation.

HYDRODESULFURISED & KEROSENE	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.				
RESENE ENGINE DEGREASER & NAPHTHA PETROLEUM, HEAVY, HYDRODESULFURISED	For trimethylbenzenes: Absorption of 1,2,4-trimethylbenzene occurs after oral, i	nhalation, or dermal exposure.			
RESENE ENGINE DEGREASER & KEROSENE	For 'kerosenes' Acute toxicity: Oral LD50s for three kerosenes (Jet A, CAS No. 8008-20-6 and CAS No. 64742-81-0) ranged from > 2 to >20 g/kg The dermal LD50s of the same three kerosenes were all >2.0 g//kg.				
NONYLPHENOL, ETHOXYLATED & NONYLPHENOL ETHOXYLATE, BRANCHED	For nonylphenol and its compounds: Alkylphenols like nonylphenol and bisphenol A have estrogenic effects in the body. Polyethers, for example, ethoxylated surfactants and polyethylene glycols, are highly susceptible towards air oxidation as the ether oxygens will stabilize intermediary radicals involved. Human beings have regular contact with alcohol ethoxylates through a variety of industrial and consumer products such as soaps, detergents, and other cleaning products . Alcohol ethoxylates are according to CESIO (2000) classified as Irritant or Harmful depending on the number of EO-units: EO < 5 gives Irritant (Xi) with R38 (Irritating to skin) and R41 (Risk of serious damage to eyes) EO > 5-15 gives Harmful (Xn) with R22 (Harmful if swallowed) - R38/41 EO > 15-20 gives Harmful (Xn) with R22 (Harmful if swallowed) - R38/41 EO > 15-20 gives Harmful (Xn) with R22 (Harmful if swallowed) - R38/41 EO > 15-20 gives Harmful (Xn) with R22-41 >20 EO is not classified (CESIO 2000) Oxo-AE, C13 EO10 and C13 EO15, are Irritating (Xi) with R36/38 (Irritating to eyes and skin) . AE are not included in Annex 1 of the list of dangerous substances of the Council Directive 67/548/EEC In general, alcohol ethoxylates (AE) are readily absorbed through the skin of guinea pigs and rats and through the gastrointestinal mucosa of rats. For high boiling ethylene glycol ethers (typically triethylene- and tetraethylene glycol ethers): Skin absorption : Available skin absorption data for triethylene glycol ether (TGBE), triethylene glycol methyl ether (TGME), and triethylene glycol ethylene ether (TGEE) suggest that the rate of absorption in skin of these three glycol ethers is 22 to 34 micrograms/cm2/hr, with the methyl ether having the highest permeation constant and the butyl ether having the lowest. for nonylphenol: Nonylphenol: Nonylphenol was studied for oral toxicity in rats in a 28-day repeat dose toxicity test at doses of 0, 4, 15, 60 and 250 mg/kg/day.				
Acute Toxicity	×	Carcinogenicity	×		
Skin Irritation/Corrosion	×	Reproductivity	×		
Serious Eye Damage/Irritation	¥	STOT - Single Exposure	×		
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×		
Mutagenicity	×	Aspiration Hazard	×		
		Data aithor not	available or doos not fill the criteria for elegation		

Legend:

Data either not available or does not fill the criteria for classification
 Data available to make classification

SECTION 12 Ecological information

							-
RESENE ENGINE DEGREASER	Endpoint	Test Duration (hr)		Species	Value		Source
DEGREASER	Not Available	Not Available		Not Available	Not Availabl	e	Not Available
	Endpoint	Test Duration (hr)	Spe	ecies		Value	Source
naphtha petroleum, heavy, hydrodesulfurised	EC50	72h	Alga	ae or other aquatic plant	S	391mg/l	2
	EC50(ECx)	72h	Alga	ae or other aquatic plant	S	391mg/l	2
	NOEC(ECx)	504h	Cru	stacea		0.097mg	g/l 2
	EC50	72h	Alg	ae or other aquatic plant	S	0.53mg/	l 2
	EC50	96h	Alg	Algae or other aquatic plants		0.58mg/	1 2
	NOEC(ECx)	720h	Cru	Crustacea		0.024mg	g/l 2
	LC50	96h	Fish	Fish		0.14mg/	1 2
	EC50	96h	Algae or other aquatic plants		0.277mg	g/l 2	
	Endpoint	Test Duration (hr)	Specie	15		Value	Source
	BCF	1008h	Fish			<0.2	7
nonylphenol, ethoxylated	EC50(ECx)	120h				0.08-0.29mg/	
,	EC50	96h	Algae or other aquatic plants			12mg/l	4
	EC50	48h	3			13-16mg/l	4
	Endpoint	Test Duration (hr)	Spe	ecies		Value	Source
nonylphenol ethoxylate, branched	NOEC(ECx)	2184h	Fish	1		0.006mg	g/l 2
2.2.101104	EC50	72h	Alg	ae or other aquatic plant	s	>3mg/l	2

	LC50	96h	Fish		0.136mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Source	
kerosene	Not Available	Not Available	Not Available	Not Available	Not Avail	able
					I	
Legend:	V3.12 (QSAR) - Aqu	CLID Toxicity Data 2. Europe ECH atic Toxicity Data (Estimated) 4. U 1) - Bioconcentration Data 7. METI	IS EPA, Ecotox database - Aqu	atic Toxicity Data 5. EC		
be NOT allow product to come in c Vhen spilled this product may act a for kerosene: for kerosene is the name for the lighte Surfactants are in general toxic to a for 1,2,4-trimethylbenzene: talf-life (hr) air : 0.48-16 talf-life (hr) H2O surface water : 0 dalf-life (hr) H2O ground : 336-134 talf-life (hr) H2O ground : 336-672 tenry's Pa m3 /mol: 385-627 to accumulation : not significant ,2,4-Trimethylbenzene is a volatio for aromatic hydrocarbons: Within an aromatic series, acute to for opetroleum distillates: invironmental fate: When petroleum substances are re for C9 aromatics (typically trimethyl chemicals in this category possess invironmental toxicity is a function for xylenes : bg Koc : 2.05-3.08 Goc : 25.4-204 talf-life (hr) H2O ground : 336-864 talf-life (hr) soil : 52-672 tenry's Pa m3 /mol: 637-879 tenry's Pa m3 /mol: 7.68E-03 GOD 5 if unstated: 1.4,1% COD : 3.125 GCF : 23 gg BCF : 1.17-2.41 trivironmental fate: Cotanol/water partition coefficients for alkylphenols and their ethoxylat	Action of the service	OC) substance. creasing alkyl substitution on the a ment, four major fate processes w a hazard for the environment (acut partition coefficient (log Pow, log I ndicate that 3-xylene is expected to mined for surfactants because one nvironmental after the introduction	e mean high water mark. at or beneath the surface of th dle distillates. romatic nucleus. ill take place: dissolution in wa e toxicity for fish, invertebrates, Kow).	ter, volatilization, biodeg , and algae from 1 to 10 I. hilic and the other part is	mg/L).	
rsistence and degradability						
ngredient	Persistence: Water	/Soil		Persistence: Air		
onylphenol, ethoxylated	LOW			LOW		
, ,	-					
paccumulative potential						
eaceannaire percinai						
ngredient	Bioaccumulation					

Ingredient	Mobility
nonylphenol, ethoxylated	LOW (KOC = 940)

SECTION 13 Disposal considerations

Waste treatment methods				
Product / Packaging disposal	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. Recycle wherever possible. Consult manufacturer for recycling option. 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.

SECTION 14 Transport information

Labels Required	
Marine Pollutant	
HAZCHEM	•3Y

Land transport (UN)

UN number	263			
UN proper shipping name	INT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL cluding paint thinning or reducing compound)			
Transport hazard class(es)	Class 3			
	Subrisk Not Applicable			
Packing group	11			
Environmental hazard	Environmentally hazardous			
Special processions for user	Special provisions 163; 223; 367			
Special precautions for user	Limited quantity 5 L			

Air transport (ICAO-IATA / DGR)

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); Paint related material (including paint hinning or reducing compounds)			
	ICAO/IATA Class	/IATA Class 3			
Transport hazard class(es)	ICAO / IATA Subrisk	Not Applicable			
	ERG Code	3L			
Packing group	III				
Environmental hazard	Environmentally hazardous				
	Special provisions		A3 A72 A192		
	Cargo Only Packing Instructions		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)

Transport hazard class(es)	IMDG Class IMDG Subrisk	3 Not Applicable				
Packing group	Ш					
Environmental hazard	Marine Pollutant	arine Pollutant				
Special precautions for user	EMS Number Special provisions Limited Quantities					

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

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

Product name	Group
naphtha petroleum, heavy, hydrodesulfurised	Not Available
nonylphenol, ethoxylated	Not Available
nonylphenol ethoxylate, branched	Not Available
kerosene	Not Available

Transport in bulk in accordance with the ICG Code

Product name	Ship Type
naphtha petroleum, heavy, hydrodesulfurised	Not Available
nonylphenol, ethoxylated	Not Available
nonylphenol ethoxylate, branched	Not Available
kerosene	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.

naphtha petroleum, heavy, hydrodesulfurised is found on the following regulatory lists

aphtha petroleum, neavy, hydrodesulturised is found on the following regulatory lists	S
Chemical Footprint Project - Chemicals of High Concern List International Agency for Research on Cancer (IARC) - Agents Classified by the IARC	New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals
Monographs	New Zealand Inventory of Chemicals (NZIoC)
New Zealand Approved Hazardous Substances with controls	New Zealand Workplace Exposure Standards (WES)
nonylphenol, ethoxylated is found on the following regulatory lists	
Chemical Footprint Project - 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)
nonylphenol ethoxylate, branched is found on the following regulatory lists	
Chemical Footprint Project - 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)
kerosene is found on the following regulatory lists	
Chemical Footprint Project - Chemicals of High Concern List	New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC	of Chemicals
Monographs	New Zealand Inventory of Chemicals (NZIoC)
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC	New Zealand Workplace Exposure Standards (WES)
Monographs - Group 1: Carcinogenic to humans	
New Zealand Approved Hazardous Substances with controls	

Hazardous Substance Location

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

Hazard Class	Quantity (Closed Containers)	Quantity (Open Containers)
3.1C	500 L in containers more than 5 L	250 L
3.1C	1 500 L in containers up to and including 5 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

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
3.1C or 3.1D 10 L	3.1C or 3.1D				10 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	17/08/2021
Initial Date	04/03/2019

SDS Version Summary

Version	Date of Update	Sections Updated
1.5.7.9	17/08/2021	Acute Health (inhaled), Chronic Health, Classification, First Aid (inhaled)

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment.

Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average PC-STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit TEEL: Temporary Emergency Exposure Limit。 IDLH: Immediately Dangerous to Life or Health Concentrations ES: Exposure Standard OSF: Odour Safety Factor NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index AIIC: Australian Inventory of Industrial Chemicals DSL: Domestic Substances List NDSL: Non-Domestic Substances List IECSC: Inventory of Existing Chemical Substance in China EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European List of Notified Chemical Substances NLP: No-Longer Polymers ENCS: Existing and New Chemical Substances Inventory KECI: Korea Existing Chemicals Inventory NZIoC: New Zealand Inventory of Chemicals PICCS: Philippine Inventory of Chemicals and Chemical Substances **TSCA: Toxic Substances Control Act** TCSI: Taiwan Chemical Substance Inventory INSQ: Inventario Nacional de Sustancias Químicas NCI: National Chemical Inventory FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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