RESENE ACRYTHANE RESENE AUTOMOTIVE & LIGHT INDUSTRIAL

Version No: 1.2.4.9

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

Issue Date: **02/08/2021** Print Date: **02/08/2021** L.GHS.NZL.EN

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

Product Identifier

Product name	RESENE ACRYTHANE		
Chemical Name	Not Applicable		
Synonyms	Incl. Lunar, Orange 4, Black, White bases		
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	9251 9320 9375 9308 9321 10555

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

Flammable Liquid Category 3, Acute Toxicity (Dermal) Category 4, Specific target organ toxicity - single exposure Category 2, Acute Toxicity (Inhalation) Category 4, Skin Corrosion/Irritation Category 2, Eye Irritation Category 2, Reproductive Toxicity Category 2, Skin Sensitizer Category 1, Carcinogenicity Category 2, 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	3.1C, 6.1D (dermal), 6.1D (inhalation), 6.3A, 6.4A, 6.5B (contact), 6.7B, 6.8B, 6.9B, 9.1C	

Label elements

Hazard pictogram(s)







Signal word

Warning

Hazard statement(s)

H226	Flammable liquid and vapour.		
H312	armful in contact with skin.		
H371	May cause damage to organs. (Inhalation)		
H332	Harmful if inhaled.		
H315	Causes skin irritation.		
H319	Causes serious eye irritation.		

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H361	Suspected of damaging fertility or the unborn child.		
H317	May cause an allergic skin reaction.		
H351	Suspected of causing cancer.		
H412	Harmful to aquatic life with long lasting effects.		

Precautionary statement(s) Prevention

Treductionary Statement(5) Frevention		
Obtain special instructions before use.		
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.		
Keep container tightly closed.		
Do not breathe mist/vapours/spray.		
Use only a well-ventilated area.		
Wear protective gloves, protective clothing, eye protection and face protection.		
Ground and bond container and receiving equipment.		
Use explosion-proof electrical/ventilating/lighting/intrinsically safe equipment.		
Use non-sparking tools.		
Take action to prevent static discharges.		
Do not eat, drink or smoke when using this product.		
Avoid release to the environment.		
Wash all exposed external body areas thoroughly after handling.		
Contaminated work clothing should not be allowed out of the workplace.		

Precautionary statement(s) Response

P370+P378	In case of fire: Use alcohol resistant foam or normal protein foam to extinguish.	
P302+P352	IF 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.	
P312	Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.	
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].	
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	

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, EPA consolidation 30 April 2021 to be identified:

Mixtures

CAS No	%[weight]	Name
95-63-6	1-5	1.2.4-trimethyl benzene
80-62-6	0.1-1	methyl methacrylate
141-32-2	0.1-1	butyl acrylate
868-77-9	0.1-1	2-hydroxyethyl methacrylate
1330-20-7	5-15	xylene
100-41-4	1-10	ethylbenzene
108-65-6	5-15	propylene glycol monomethyl ether acetate, alpha-isomer
Legend:	d: 1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI;	

SECTION 4 First aid measures

Description of first aid measures

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	 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 skin contact occurs:
	Immediately remove all contaminated clothing, including footwear.
Skin Contact	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 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

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, 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	 Containers, even those that have been emptied, may contain explosive vapours. 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.

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Conditions for safe storage, including any incompatibilities

Suitable container	▶ Packing as supplied by manufacturer.
Storage incompatibility	 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)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
New Zealand Workplace Exposure Standards (WES)	methyl methacrylate	Methyl methacrylate	50 ppm / 208 mg/m3	416 mg/m3 / 100 ppm	Not Available	skin-Skin absorption
New Zealand Workplace Exposure Standards (WES)	butyl acrylate	n-Butyl acrylate	2 ppm / 11 mg/m3	22 mg/m3 / 4 ppm	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	xylene	Dimethylbenzene	50 ppm / 217 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	ethylbenzene	Ethyl benzene	100 ppm / 434 mg/m3	543 mg/m3 / 125 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
methyl methacrylate	Not Available	Not Available	Not Available
butyl acrylate	Not Available	Not Available	Not Available
2-hydroxyethyl methacrylate	1.9 mg/m3	21 mg/m3	1,000 mg/m3
xylene	Not Available	Not Available	Not Available
ethylbenzene	Not Available	Not Available	Not Available
propylene glycol monomethyl ether acetate, alpha-isomer	Not Available	Not Available	Not Available

Ingredient	Original IDLH	Revised IDLH
1,2,4-trimethyl benzene	Not Available	Not Available
methyl methacrylate	1,000 ppm	Not Available
butyl acrylate	Not Available	113 ppm
2-hydroxyethyl methacrylate	Not Available	Not Available
xylene	900 ppm	Not Available
ethylbenzene	800 ppm	Not Available
propylene glycol monomethyl ether acetate, alpha-isomer	Not Available	Not Available

Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit
1,2,4-trimethyl benzene	Е	≤ 0.1 ppm
2-hydroxyethyl methacrylate	Е	≤ 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 butyl acrylate:

Odour Threshold Value: 0.00029 ppm (detection), 0.0027 ppm (recognition)

The recommended TLV-TWA takes into account the value cited for methyl methacrylate because of a similarity of toxic response by inhalation, skin and eyes.

for propylene glycol monomethyl ether acetate (PGMEA) Saturated vapour concentration: 4868 ppm at 20 C.

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.

Odour Threshold Value (methyl methacrylate): 0.049 ppm (detection), 0.34 ppm (recognition)

NOTE: Detector tubes measuring in excess of 50 ppm, are available.

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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 ethyl benzene:

Odour Threshold Value: 0.46-0.60 ppm

NOTE: Detector tubes for ethylbenzene, measuring in excess of 30 ppm, are commercially available.

NOTE D: Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form.

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

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance	This product is a mixture		
Physical state	Liquid	Relative density (Water = 1)	0.98-1.23
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)	130-150	Molecular weight (g/mol)	Not Available
Flash point (°C)	25-27	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)	50
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	450

SECTION 10 Stability and reactivity

Reactivity	See section 7
Chemical stability	▶ Unstable in the presence of incompatible materials.

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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 in	nformation			
Information on toxicological eff	fects			
Inhaled	Inhalation of vapours may cause drowsiness and dizzi A significant number of individuals exposed to mixed to Central nervous system (CNS) depression may include an aesthetic effects, slowed reaction time, slurred spectral acute toxicity of inhaled alkylbenzenes is best desuper the acute toxicity of inhaled alkylbenzenes is best desuper to xylene overexposure. Xylene is a central nervous system depressant.	rimethylbenzenes of e nonspecific disco ech and may progre scribed by central n	mfort, symptoms of giddiness, ass to unconsciousness. ervous system depression.	headache, dizziness, nausea,
Ingestion	Swallowing of the liquid may cause aspiration of vomit pneumonitis; serious consequences may result.	into the lungs with	the risk of haemorrhaging, pu	lmonary oedema, progressing to chemical
Skin Contact	Skin contact with the material may be harmful; system The material may accentuate any pre-existing dermati Open cuts, abraded or irritated skin should not be expentry into the blood-stream through, for example, cuts	tis condition osed to this materia	al	oduce systemic injury with harmful effects.
Еуе	Evidence exists, or practical experience predicts, that produce significant ocular lesions which are present to Undiluted propylene glycol monomethyl ether acetate in rabbits	venty-four hours or	more after instillation into the	eye(s) of experimental animals.
Chronic	On the basis, primarily, of animal experiments, concerrespect of the available information, however, there proposed in the available information, however, there proposed in the primarily in the proposed in	esently exists inade material is capable experimental anim ian fertility, generall absence of toxic effi- dary non-specific co ians owing to possi developmental toxi are not a secondary sthylene glycols) and ene glycol monome	equate data for making a satis either of inducing a sensitisatials. yo no the basis that results in a ects, or evidence of impaired fonsequence of other toxic effection of the developmental toxic effecticity in the absence of signs or non-specific consequence of d their esters indicate reproductiful ether acetate (PGMEA) (factory assessment. on reaction in a substantial number of unimal studies provide sufficient evidence ertility occurring at around the same dose ects. s, generally on the basis that results in f marked maternal toxicity, or at around other toxic effects. ictive changes, testicular atrophy, infertility
	TOWNER		IDDITATION	
RESENE ACRYTHANE	TOXICITY Not Available		IRRITATION Not Available	
	Not Available		TVOL AVAIIABIO	
	TOXICITY			IRRITATION
	Dermal (rabbit) LD50: >3160 mg/kg ^[2]			Not Available
1,2,4-trimethyl benzene	Inhalation(Rat) LC50; 10.2 mg/L4h ^[1]			
	Oral(Rat) LD50; 6000 mg/kg ^[1]			
	TOXICITY Description of the second s		IRRITATION	
methyl methacrylate	Dermal (rabbit) LD50: >5000 mg/kg ^[1]		Eye (rabbit): 150 mg Skin (rabbit): 10000 mg/k	ra (anan)
	Inhalation(Rat) LC50; 29.8 mg/l4h ^[1] Oral(Mouse) LD50; 3625 mg/kg ^[2]		Skiii (labbit). 10000 filg/k	g (open)
	TOXICITY		RITATION	
	Dermal (rabbit) LD50: 750 mg/kg ^[2]		e (rabbit) 50 mg - mild	
butyl acrylate	Inhalation(Rat) LC50; >5.24 mg/l4h ^[1]		e: adverse effect observed (irri	
	Oral(Mouse) LD50; 756 mg/kg ^[2]	Ski	n (rabbit) 10 mg/24h open mile	d

Skin (rabbit) 500 mg open - mild

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		:	Skin: adverse effect observed (irritating) ^[1]
	TOXICITY Desmal (subhit) DE01 - 2000 mg/kg[2]		ration
2-hydroxyethyl methacrylate	Dermal (rabbit) LD50: >3000 mg/kg ^[2] Oral(Mouse) LD50; 3275 mg/kg ^[2]		rabbit): SEVERE * adverse effect observed (irritating) ^[1]
2-nydroxyetnyi methaci yiate	Oran(Mouse) LD50, 3275 mg/kgr-3		(rabbit): non-irritating*
			no adverse effect observed (not irritating) ^[1]
			(g)
	TOXICITY		IRRITATION
	Dermal (rabbit) LD50: >1700 mg/kg ^[2]	1	Eye (human): 200 ppm irritant
	Inhalation(Rat) LC50; 5922 ppm4h ^[1]	1	Eye (rabbit): 5 mg/24h SEVERE
xylene	Oral(Mouse) LD50; 2119 mg/kg ^[2]	1	Eye (rabbit): 87 mg mild
		1	Eye: adverse effect observed (irritating) ^[1]
		;	Skin (rabbit):500 mg/24h moderate
			Skin: adverse effect observed (irritating) ^[1]
	TOXICITY	IRRIT	TATION
	Dermal (rabbit) LD50: >5000 mg/kg ^[2]		rabbit): 500 mg - SEVERE
ethylbenzene	Inhalation(Rat) LC50; 17.2 mg/l4h ^[2]		no adverse effect observed (not irritating)[1]
	Oral(Rat) LD50; ~3523 mg/kg ^[2]		(rabbit): 15 mg/24h mild
		Skin:	no adverse effect observed (not irritating)[1]
		l	
propylene glycol monomethyl	TOXICITY	IRRITAT	
ether acetate, alpha-isomer	dermal (rat) LD50: >2000 mg/kgl ¹]		adverse effect observed (not irritating) ^[1]
	Oral(Rat) LD50; 5155 mg/kg ^[1]	Skin: no	adverse effect observed (not irritating) ^[1]
Legend:			toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise
	specified data extracted from RTECS - Register of Toxic Ef	ect of chen	nical Substances
RESENE ACRYTHANE	Data demonstrate that during inhalation exposure, aromatic Generally, linear and branched-chain alkyl esters are hydrol and most tissues throughout the body.		ons undergo substantial partitioning into adipose tissues. eir component alcohols and carboxylic acids in the intestinal tract, blood
1,2,4-TRIMETHYL BENZENE	Other Toxicity data is available for CHEMWATCH 12172 1,	2,3-trimethy	rlbenzene CHEMWATCH 2325 1,3,5-trimethylbenzene
METHYL METHACRYLATE	For methyl methacrylate: Acute toxicity: MMA is rapidly absorbed after oral or inhalat can be absorbed through human skin. Inhalation (human) T	,	stration. <i>In vitro</i> skin absorption studies in human skin indicate that MMA g/m3(15 ppm) (* Manuf.
BUTYL ACRYLATE	for n-butyl acrylate Acute toxicity: After oral administration, n-butyl acrylate is approximately 10% via urine and 2% via feces).	rapidly abs	sorbed and metabolized in male rats (75% was eliminated as CO2,
2-HYDROXYETHYL METHACRYLATE	Dermal (rabbit): >5000 mg/kg* Effects persist beyond 21 da	ys	
XYLENE	Reproductive effector in rats		
	, , , , , , , , , , , , , , , , , , , ,		velopmental abnormalities (musculoskeletal system) recorded. I exposures, distributed throughout the body, and excreted primarily
ETHYLBENZENE	through urine.		say, or belongs to a family of chemicals producing damage or change to
	WARNING: This substance has been classified by the IARO	C as Group	2B: Possibly Carcinogenic to Humans.
PROPYLENE GLYCOL			ppm PGMEA (beta isomer) was associated with a teratogenic response in
MONOMETHYL ETHER ACETATE, ALPHA-ISOMER	rabbits; but exposure to 145 ppm and 36 ppm had no adversal, the remaining 90% is alpha isomer. *Shin-Etsu SC		The beta isomer of PGMEA comprises only 10% of the commercial
RESENE ACRYTHANE & METHYL METHACRYLATE & BUTYL ACRYLATE & 2-HYDROXYETHYL METHACRYLATE	The following information refers to contact allergens as a gr Contact allergies quickly manifest themselves as contact ed		
RESENE ACRYTHANE & 1,2,4- TRIMETHYL BENZENE	For trimethylbenzenes: Absorption of 1,2,4-trimethylbenzene occurs after oral, inha	lation, or de	ermal exposure.
RESENE ACRYTHANE & PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE, ALPHA-ISOMER	ether acetate (DPMA); tripropylene glycol methyl ether (TPI Testing of a wide variety of propylene glycol ethers Testing ethers are less toxic than some ethers of the ethylene serie	M). of a wide va s.	PnB); dipropylene glycol n-butyl ether (DPnB); dipropylene glycol methyl ariety of propylene glycol ethers has shown that propylene glycol-based opm PGMEA (beta isomer) was associated with a teratogenic response in

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rabbits; but exposure to 145 ppm and 36 ppm had no adverse effects. The beta isomer of PGMEA comprises only 10% of the commercial material, the remaining 90% is alpha isomer. 1,2,4-TRIMETHYL BENZENE & **METHYL METHACRYLATE & BUTYL ACRYLATE &** Asthma-like symptoms may continue for months or even years after exposure to the material ceases. 2-HYDROXYETHYL **METHACRYLATE** Where no 'official' classification for acrylates and methacrylates exists, there has been cautious attempts to create classifications in the absence of contrary evidence. **METHYL METHACRYLATE &** Based on the available oncogenicity data and without a better understanding of the carcinogenic mechanism the Health and Environmental **BUTYL ACRYLATE &** Review Division (HERD), Office of Toxic Substances (OTS), of the US EPA previously concluded that all chemicals that contain the acrylate or 2-HYDROXYETHYL methacrylate moiety (CH2=CHCOO or CH2=C(CH3)COO) should be considered to be a carcinogenic hazard unless shown otherwise by **METHACRYLATE** adequate testing. This position has now been revised and acrylates and methacrylates are no longer de facto carcinogens. The substance is classified by IARC as Group 3: **METHYL METHACRYLATE &** NOT classifiable as to its carcinogenicity to humans. **BUTYL ACRYLATE & XYLENE** Evidence of carcinogenicity may be inadequate or limited in animal testing. **XYLENE & ETHYLBENZENE** The material may produce severe irritation to the eye causing pronounced inflammation. The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). **Acute Toxicity** Carcinogenicity Skin Irritation/Corrosion Reproductivity V Serious Eye Damage/Irritation STOT - Single Exposure Respiratory or Skin × STOT - Repeated Exposure sensitisation × **Aspiration Hazard** Mutagenicity

Legend:

X - Data either not available or does not fill the criteria for classification

Data available to make classification

SECTION 12 Ecological information

	Endpoint	Test Duration (hr)	Species	Value	Sour	ce
RESENE ACRYTHANE	Not Available	Not Available	Not Available	Not Available	Not A	vailable
	Endpoint	Test Duration (hr)	Species		Value	Source
	BCF	1344h	Fish		31-207	7
1,2,4-trimethyl benzene	EC50(ECx)	96h	Algae or other aquatic plant		2.356mg/l	2
	LC50	96h	Fish		3.41mg/l	2
	EC50	96h	Algae or other aquatic plant		2.356mg/l	2
	EC50	48h	Crustacea		ca.6.14mg/l	1
	Endpoint	Test Duration (hr)	Species		Value	Source
	EC0(ECx)	48h	Crustacea		48mg/l	1
	EC50	72h	Algae or other aquatic plant	ts	>110mg/l	2
methyl methacrylate	LC50	96h	Fish		>79mg/l	2
	EC50	48h	Crustacea		69mg/l	1
	EC50	96h	Algae or other aquatic plant	ts	170mg/l	1
	Endpoint	Test Duration (hr)	Species		Value	Source
	EC50	72h	Algae or other aquatic pla	nts	1.71mg/l	2
	LC50	96h	Fish		1.1mg/l	2
butyl acrylate	EC50	48h	Crustacea		1.3mg/l	2
	NOEC(ECx)	504h	Crustacea		0.136mg/l	2
	EC50	96h	Algae or other aquatic pla	nts	2.65mg/l	2
	Endpoint	Test Duration (hr)	Species		Value	Source
	NOEC(ECx)	504h	Crustacea		24.1mg/l	2
droxyethyl methacrylate	EC50	72h	Algae or other aquatic pla	ants	345mg/l	2
	LC50	96h	Fish		>100mg/l	2

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

Algae or other aquatic plants

0.44mg/l

2

ethylbenzene

xylene

NOEC(ECx)

73h

Endpoint	Test Duration (hr)	Species	Value	Source
EC50	72h	Algae or other aquatic plants	4.6mg/l	1
LC50	96h	Fish	3.381-4.075mg/L	4
EC50	48h	Crustacea	1.37-4.4mg/l	4
NOEC(ECx)	720h	Fish	0.381mg/L	4
EC50	96h	Algae or other aquatic plants	3.6mg/l	2

propylene glycol monomethyl ether acetate, alpha-isomer

Endpoint	Test Duration (hr)	Species	Value	Source
EC50	72h	Algae or other aquatic plants	>1000mg/l	2
LC50	96h	Fish	>100mg/l	2
EC50	48h	Crustacea	373mg/l	2
NOEC(ECx)	336h	Fish	47.5mg/l	2
EC50	96h	Algae or other aquatic plants	>1000mg/l	2

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 propylene glycol ethers:

Environmental fate:

Most are liquids at room temperature and all are water-soluble.

For 1,2,4-trimethylbenzene: Half-life (hr) air : 0.48-16 Half-life (hr) H2O surface water : 0.24-672

Half-life (hr) H2O ground: 336-1344 Half-life (hr) soil: 168-672 Henry's Pa m3 /mol: 385-627 Bioaccumulation: not significant

1,2,4-Trimethylbenzene is a volatile organic compound (VOC) substance.

For aromatic hydrocarbons:

Within an aromatic series, acute toxicity increases with increasing alkyl substitution on the aromatic nucleus.

For xylenes : log Koc : 2.05-3.08 Koc : 25.4-204 Half-life (hr) air : 0.24-42

Half-life (hr) H2O surface water : 24-672 Half-life (hr) H2O ground : 336-8640

Half-life (hr) soil : 52-672 Henry's Pa m3 /mol: 637-879 Henry's atm m3 /mol: 7.68E-03 BOD 5 if unstated: 1.4,1% COD : 2.56,13%

ThOD: 3.125 BCF: 23 log BCF: 1.17-2.41 Environmental Fate

Terrestrial fate: Measured Koc values of 166 and 182, indicate that 3-xylene is expected to have moderate mobility in soil. For glycol ethers:

Environmental fate:

Ether groups are generally stable to hydrolysis in water under neutral conditions and ambient temperatures.

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)
methyl methacrylate	LOW	LOW
butyl acrylate	LOW (Half-life = 14 days)	LOW (Half-life = 0.96 days)
2-hydroxyethyl methacrylate	LOW	LOW
xylene	HIGH (Half-life = 360 days)	LOW (Half-life = 1.83 days)
ethylbenzene	HIGH (Half-life = 228 days)	LOW (Half-life = 3.57 days)
propylene glycol monomethyl ether acetate, alpha-isomer	LOW	LOW

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Bioaccumulative potential

Ingredient	Bioaccumulation
1,2,4-trimethyl benzene	LOW (BCF = 275)
methyl methacrylate	LOW (BCF = 6.6)
butyl acrylate	LOW (LogKOW = 2.36)
2-hydroxyethyl methacrylate	LOW (BCF = 1.54)
xylene	MEDIUM (BCF = 740)
ethylbenzene	LOW (BCF = 79.43)
propylene glycol monomethyl ether acetate, alpha-isomer	LOW (LogKOW = 0.56)

Mobility in soil

Ingredient	Mobility
1,2,4-trimethyl benzene	LOW (KOC = 717.6)
methyl methacrylate	LOW (KOC = 10.14)
butyl acrylate	LOW (KOC = 40.3)
2-hydroxyethyl methacrylate	HIGH (KOC = 1.043)
ethylbenzene	LOW (KOC = 517.8)
propylene glycol monomethyl ether acetate, alpha-isomer	HIGH (KOC = 1.838)

SECTION 13 Disposal considerations

Waste treatment methods

Product / Packaging disposal

- ▶ Containers may still present a chemical hazard/ danger when empty.
- Legislation addressing waste disposal requirements may differ by country, state and/ or territory.

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

Ensure that the hazardous substance is disposed in accordance with the Hazardous Substances (Disposal) Notice 2017

Disposal Requirements

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

SECTION 14 Transport information

Labels Required



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	III.
Environmental hazard	Not Applicable
Special precautions for user	Special provisions 163; 223; 367 Limited quantity 5 L

Air transport (ICAO-IATA / DGR)

UN number	1263
UN proper shipping name	Paint (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base); Paint related material (including paint thinning or reducing compounds)

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Transport hazard class(es)	ICAO/IATA Class ICAO / IATA Subrisk ERG Code	3 Not Applicable 3L	
Packing group	III		
Environmental hazard	Not Applicable		
	Special provisions		A3 A72 A192
	Cargo Only Packing Instructions		366
Special precautions for user	Cargo Only Maximum Qty / Pack		220 L
	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 3 IMDG Subrisk Not Applicable		
Packing group			
Environmental hazard	Not Applicable		
Special precautions for user	EMS Number Special provisions Limited Quantities	F-E , S-E 163 223 367 955 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
methyl methacrylate	Not Available
butyl acrylate	Not Available
2-hydroxyethyl methacrylate	Not Available
xylene	Not Available
ethylbenzene	Not Available
propylene glycol monomethyl ether acetate, alpha-isomer	Not Available

Transport in bulk in accordance with the ICG Code

Product name	Ship Type
1,2,4-trimethyl benzene	Not Available
methyl methacrylate	Not Available
butyl acrylate	Not Available
2-hydroxyethyl methacrylate	Not Available
xylene	Not Available
ethylbenzene	Not Available
propylene glycol monomethyl ether acetate, alpha-isomer	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
HSR002669	Surface Coatings and Colourants Flammable Carcinogenic 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

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New Zealand Approved Hazardous Substances with controls

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

methyl methacrylate 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

butyl acrylate 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

2-hydroxyethyl methacrylate 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

xylene 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

of Chemicals - Classification Data New Zealand Inventory of Chemicals (NZIoC)

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

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

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

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

of Chemicals - Classification Data

of Chemicals - Classification Data

New Zealand Inventory of Chemicals (NZIoC)

of Chemicals - Classification Data

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

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)

ethylbenzene 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

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 2B: Possibly carcinogenic to humans

New Zealand Approved Hazardous Substances with controls

New Zealand Hazardous Substances and New Organisms (HSNO) 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)

propylene glycol monomethyl ether acetate, alpha-isomer is found on the following regulatory lists

New Zealand Approved Hazardous Substances with controls

New Zealand Hazardous Substances and New Organisms (HSNO) $\mathop{\rm Act}\nolimits$ - Classification of Chemicals

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

New Zealand Inventory of Chemicals (NZIoC)

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
6.5A or 6.5B	120	1	3	
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 and are not exempt from listing(see specific ingredients in brackets)

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SECTION 16 Other information

Revision Date	02/08/2021
Initial Date	30/11/2018

SDS Version Summary

Version	Date of Update	Sections Updated
0.2.4.9	02/08/2021	Chronic Health, Classification

Other information

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

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

Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit。

IDLH: Immediately Dangerous to Life or Health Concentrations

ES: Exposure Standard

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value

LOD: Limit Of Detection

OTV: Odour Threshold Value

BCF: BioConcentration Factors

BEI: Biological Exposure Index

AIIC: Australian Inventory of Industrial Chemicals

DSL: Domestic Substances List

NDSL: Non-Domestic Substances List

IECSC: Inventory of Existing Chemical Substance in China

EINECS: European INventory of Existing Commercial chemical Substances

ELINCS: European List of Notified Chemical Substances

NLP: No-Longer Polymers

ENCS: Existing and New Chemical Substances Inventory

KECI: Korea Existing Chemicals Inventory

NZIoC: New Zealand Inventory of Chemicals

PICCS: Philippine Inventory of Chemicals and Chemical Substances

TSCA: Toxic Substances Control Act

TCSI: Taiwan Chemical Substance Inventory

INSQ: Inventario Nacional de Sustancias Químicas

NCI: National Chemical Inventory

FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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