RESENE MARINE SHIELD ULTRAFLEX PART A RESENE AUTOMOTIVE & LIGHT INDUSTRIAL

Version No: 2.4

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

Issue Date: **15/04/2024**Print Date: **15/04/2024**L.GHS.NZL.EN

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

Product Identifier		
Product name	RESENE MARINE SHIELD ULTRAFLEX PART A	
Synonyms	Not Available	
Proper shipping name	PAINT RELATED MATERIAL (including paint thinning or reducing compound); PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base)	
Other means of identification	Not Available	

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

Relevant identified uses	1039
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Details of the manufacturer or supplier of the safety data sheet

Registered company name	RESENE AUTOMOTIVE & LIGHT INDUSTRIAL	
Address	2-50 Vogel Street Naenae Wellington New Zealand	
Telephone	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 (24/7)
Emergency telephone numbers	0800 764766	+64 800 700 112
Other emergency telephone numbers	0800 737636	+61 3 9573 3188

Once connected and if the message is not in your preferred language then please dial 01

SECTION 2 Hazards identification

Classification of the substance or mixture

Classification ^[1]	Flammable Liquids Category 2, Aspiration Hazard Category 1, Skin Corrosion/Irritation Category 2, Sensitisation (Skin) Category 1, Serious Eye Damage/Eye Irritation Category 2, Sensitisation (Respiratory) Category 1, Carcinogenicity Category 2, Reproductive Toxicity Category 2, Specific Target Organ Toxicity - Single Exposure Category 2, Specific Target Organ Toxicity - Repeated Exposure Category 2, Hazardous to the Aquatic Environment Long-Term Hazard Category 4	
Legend:	Legend: 1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Ann	
Determined by Chemwatch using GHS/HSNO criteria	\parallel 3.1B 6.1E (agniration) 6.3A 6.4A 6.5A (regniratory) 6.5B (contact) 6.7B 6.8B 6.9B 9.11)	

Label elements

Hazard pictogram(s)





Signal word

Dange

Hazard statement(s)

H225	Highly flammable liquid and vapour.	
H304	May be fatal if swallowed and enters airways.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H319 Causes serious eye irritation.		

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H334	ay cause allergy or asthma symptoms or breathing difficulties if inhaled.	
H351	uspected of causing cancer.	
H361	Suspected of damaging fertility or the unborn child.	
H371	May cause damage to organs. (Oral, Dermal, Inhalation)	
H373	May cause damage to organs through prolonged or repeated exposure. (Oral, Dermal, Inhalation)	
H413	May cause long lasting harmful effects to aquatic life.	

Precautionary statement(s) Prevention	
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.	
Wear protective gloves, protective clothing, eye protection and face protection.	
[In case of inadequate ventilation] wear respiratory 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

P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician/first aider.	
P331	Do NOT induce vomiting.	
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor/physician/first aider.	
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.	
P314	Get medical advice/attention 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	P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].	

Precautionary statement(s) Storage

· · · · · · · · · · · · · · · · · · ·		
P403+P235	Store in a well-ventilated place. Keep cool.	
P405 Store locked up.		

Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.	
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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:

CAS No	%[weight]	Name
77-58-7	0.1-0.5	dibutyltin dilaurate
4083-64-1	1-10	p-toluenesulfonyl isocyanate
Not Available	1-5	benzotriazole derivatives
1330-20-7	1-10	<u>xylene</u>
100-41-4	1-5	<u>ethylbenzene</u>
108-88-3	10-20	toluene
28182-81-2	10-30	hexamethylene diisocyanate polymer
822-06-0	0.1-0.5	hexamethylene diisocyanate

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Legend:

1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L; * EU IOELVs available

SECTION 4 First aid measures

Description of first aid measur	es
Eye Contact	If this product comes in contact with the eyes: Nash 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.
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 aerosols, fumes or combustion products are inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms develop seek medical attention.
Ingestion	 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

Foam.

Special hazards arising from the substrate or mixture

Fire Incompatibility	► Avoid contamination with oxidising agents		
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) isocyanates hydrogen cyanide and minor amounts of nitrogen oxides (NOx) 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	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	For isocyanate spills of less than 40 litres (2 m2): • Evacuate area from everybody not dealing with the emergency, keep them upwind and prevent further access, remove ignition sources and, if inside building, ventilate area as well as possible. • Avoid contamination with water, alkalies and detergent solutions. Remove all ignition sources. 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

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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.
- · Electrostatic discharge may be generated during pumping this may result in fire.
 - ▶ Avoid unnecessary personal contact, including inhalation.
- 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	strong oxidisers		

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)	dibutyltin dilaurate	Tin: Organic compounds including mono- and dimethyltin and n-butyltin (not otherwise classified) as Sn: irritant compounds	0.05 mg/m3	0.02 mg/m3	Not Available	(skin) - Skin absorption oto - Ototoxin
New Zealand Workplace Exposure Standards (WES)	dibutyltin dilaurate	Tin: Organic compounds including mono- and dimethyltin and n-butyltin (not otherwise classified) as Sn: non-irritant compounds	0.05 mg/m3	0.1 mg/m3	Not Available	(skin) - Skin absorption oto - Ototoxin
New Zealand Workplace Exposure Standards (WES)	p-toluenesulfonyl isocyanate	Isocyanates, all, (as -NCO)	0.02 mg/m3	0.07 mg/m3	Not Available	(dsen) - Dermal sensitiser (rsen) - Respiratory sensitiser (ifv) - The Inhalable Fraction and Vapour (ifv) notation is used when a material exerts sufficient vapour pressure such that it may be present in both particle and vapour phases, with each contributing to a significant portion of exposure
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	20 ppm / 88 mg/m3	176 mg/m3 / 40 ppm	Not Available	(skin) - Skin absorption oto - Ototoxin
New Zealand Workplace Exposure Standards (WES)	toluene	Toluene (Toluol)	20 ppm / 75 mg/m3	377 mg/m3 / 100 ppm	Not Available	(skin) - Skin absorption oto - Ototoxin (bio) - Exposure can also be estimated by biological monitoring
New Zealand Workplace Exposure Standards (WES)	hexamethylene diisocyanate polymer	Isocyanates, all, (as -NCO)	0.02 mg/m3	0.07 mg/m3	Not Available	(dsen) - Dermal sensitiser (rsen) - Respiratory sensitiser (ifv) - The Inhalable Fraction and Vapour (ifv) notation is used when a material exerts sufficient vapour pressure such that it may be present in both particle and vapour phases, with each contributing to a significant portion of exposure
New Zealand Workplace Exposure Standards (WES)	hexamethylene diisocyanate	Hexamethylene diisocyanate	0.02 mg/m3	0.07 mg/m3	Not Available	(dsen) - Dermal sensitiser (rsen) - Respiratory sensitiser (ifv) - The Inhalable Fraction and Vapour (ifv) notation is used when a material exerts sufficient vapour pressure such that it may be present in both particle and vapour phases, with each contributing to a significant portion of exposure

Emergency Limits

Ingredient	TEEL-1	TEEL-2	TEEL-3
dibutyltin dilaurate	1.1 mg/m3	8 mg/m3	48 mg/m3
xylene	Not Available	Not Available	Not Available
ethylbenzene	Not Available	Not Available	Not Available

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TEEL-3 Ingredient TEEL-1 TEEL-2 toluene Not Available Not Available Not Available hexamethylene diisocyanate 7.8 mg/m3 86 mg/m3 510 mg/m3 polymer hexamethylene diisocyanate 0.018 ppm 0.2 ppm 3 ppm Ingredient **Original IDLH** Revised IDLH dibutyltin dilaurate 25 mg/m3 Not Available p-toluenesulfonyl isocyanate Not Available Not Available 900 ppm Not Available ethylbenzene mag 008 Not Available toluene 500 ppm Not Available hexamethylene diisocyanate Not Available Not Available polymer

Not Available

MATERIAL DATA

IFRA Prohibited Fragrance Substance

hexamethylene diisocyanate

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 isocvanates:

Some jurisdictions require that health surveillance be conducted on occupationally exposed workers.

Not Available

These exposure guidelines have been derived from a screening level of risk assessment and should not be construed as unequivocally safe limits.

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 ethyl benzene:

Odour Threshold Value: 0.46-0.60 ppm

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

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 1,6-hexamethylene diisocyanate (HDI):

The toxicological action of HDI is similar to that of toluene diisocyanate and and the TLV-TWA is analogous.

Exposure controls

Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. • All processes in which isocyanates are used should be enclosed wherever possible.
Individual protection measures, such as personal protective equipment	
Eye and face protection	► Safety glasses with side shields.
Skin protection	See Hand protection below
Hands/feet protection	NOTE: The material may produce skin sensitisation in predisposed individuals. Isocyanate resistant materials include Teflon, Viton, nitrile rubber and some PVA gloves.
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 air-fed mask, or for short period of mask, a combination of charcoal filter and particulate filter is recommended.

In case of hypersensitivity of the respiratory tract and skin (e.g. asthmatics and those who suffer from chronic bronchitis and chronic skin complaint) it is inadvisable to work with the product.

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.

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Clear colourless liquid

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Physical state	Liquid	Relative density (Water = 1)	1.0
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 (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	60
Initial boiling point and boiling range (°C)	110-130	Molecular weight (g/mol)	Not Available
Flash point (°C)	5	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)	51
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	423

SECTION 10 Stability and reactivity

Reactivity	See section 7	
Chemical stability	Unstable in the presence of incompatible materials.	
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 ef	ffects
Inhaled	Evidence shows, or practical experience predicts, that the material produces irritation of the respiratory system, in a substantial number of individuals, following inhalation. Inhalation of vapours may cause drowsiness and dizziness. The vapour/mist may be highly irritating to the upper respiratory tract and lungs; the response may be severe enough to produce bronchitis and pulmonary oedema. 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. The acute toxicity of inhaled alkylbenzene is best described by central nervous system depression. Headache, fatigue, lassitude, irritability and gastrointestinal disturbances (e.g., nausea, anorexia and flatulence) are the most common symptoms of xylene overexposure. Xylene is a central nervous system depressant.
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.
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	Evidence exists, or practical experience predicts, that the material may cause eye irritation in a substantial number of individuals and/or may produce significant ocular lesions which are present twenty-four hours or more after instillation into the eye(s) of experimental animals.

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On the basis, primarily, of animal experiments, concern has been expressed that the material may produce carcinogenic or mutagenic effects; in respect of the available information, however, there presently exists inadequate data for making a satisfactory assessment. Repeated or long-term occupational exposure is likely to produce cumulative health effects involving organs or biochemical systems. Long-term exposure to respiratory irritants may result in disease of the airways involving difficult breathing and related systemic problems. Harmful: 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. Exposure to the material may cause concerns for human fertility, generally on the basis that results in animal studies provide sufficient evidence to cause a strong suspicion of impaired fertility in the absence of toxic effects, or evidence of impaired fertility occurring at around the same dose levels as other toxic effects, but which are not a secondary non-specific consequence of other toxic effects. Chronic Exposure to the material may cause concerns for humans owing to possible developmental toxic effects, generally on the basis that results in appropriate animal studies provide strong suspicion of developmental toxicity in the absence of signs of marked maternal toxicity, or at around the same dose levels as other toxic effects but which are not a secondary non-specific consequence of other toxic effects Polyisocyanates still contain small amounts of monomeric isocyanate (typically <0.5 parts per weight) and both - the polyisocyanate and the monomer - have toxicological importance. Chronic toluene habituation occurs following intentional abuse (glue sniffing) or from occupational exposure. Persons with a history of asthma or other respiratory problems or are known to be sensitised, should not be engaged in any work involving the handling of isocyanates Prolonged or repeated contact with xylenes may cause defatting dermatitis with drying and cracking. Speculative discussion surrounds the use of sunscreens and a possible rise in the incidence of melanoma. TOXICITY IRRITATION **RESENE MARINE SHIELD ULTRAFLEX PART A** Not Available Not Available TOXICITY IRRITATION Eye (rabbit): 100 mg/24h -moderate dermal (rat) LD50: >2000 mg/kg^[1] dibutyltin dilaurate Oral (Rat) LD50: 175 mg/kg^[2] Skin (rabbit): 500 mg/24h - mild TOXICITY IRRITATION dermal (rat) LD50: >2000 mg/kg^[1] Not Available p-toluenesulfonyl isocyanate Inhalation (Rat) LC50: >320 ppm4h^[2] Oral (Rat) LD50: 2600 mg/kg^[2] TOXICITY IRRITATION Dermal (rabbit) LD50: >1700 mg/kg^[2] Eye (human): 200 ppm irritant Eye (rabbit): 5 mg/24h SEVERE Inhalation (Rat) LC50: 5000 ppm4h^[2] Eye (rabbit): 87 mg mild xvlene Oral (Mouse) LD50; 2119 mg/kg^[2] Eye: adverse effect observed (irritating)^[1] Skin (rabbit):500 mg/24h moderate Skin: adverse effect observed (irritating)^[1] TOXICITY IRRITATION Eye (rabbit): 500 mg - SEVERE Dermal (rabbit) LD50: 17800 mg/kg^[2] Inhalation (Rat) LC50: 17.2 mg/l4h^[2] Eye: no adverse effect observed (not irritating)^[1] ethylbenzene Skin (rabbit): 15 mg/24h mild Oral (Rat) LD50: 3500 mg/kg^[2] Skin: no adverse effect observed (not irritating)^[1] TOXICITY IRRITATION Eye (rabbit): 2mg/24h - SEVERE Dermal (rabbit) LD50: 12124 mg/kg^[2] Eye (rabbit):0.87 mg - mild Inhalation (Rat) LC50: >13350 ppm4h^[2] Oral (Rat) LD50: 636 mg/kg^[2] Eye (rabbit):100 mg/30sec - mild toluene Eye: adverse effect observed (irritating)^[1] Skin (rabbit):20 mg/24h-moderate Skin (rabbit):500 mg - moderate Skin: adverse effect observed (irritating)^[1]

hexamethylene diisocyanate

polymer

TOXICITY

Continued...

Skin: no adverse effect observed (not irritating) $^{[1]}$

IRRITATION

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	1			
	dermal (rat) LD50: >2000 mg/kg ^[1]		Skin (rabbit): 500 mg - moderate	
	Inhalation (Rat) LC50: 0.052-0.5 mg/L4h ^[1]			
	Oral (Rat) LD50: >2000 mg/kg ^[1]			
	TOXICITY	IRRITATION	ı	
			e effect observed (irritating) ^[1]	
hexamethylene diisocyanate			se effect observed (corrosive) ^[1]	
			se effect observed (irritating) ^[1]	
	, , , ,		, o	
Legend:	Nalue obtained from Europe ECHA Registered Substances - Act specified data extracted from RTECS - Register of Toxic Effect of Co.			
RESENE MARINE SHIELD ULTRAFLEX PART A	Data demonstrate that during inhalation exposure, aromatic hydroca	arbons unde	rgo substantial partitioning into adipose tissues.	
DIBUTYLTIN DILAURATE	Exposure to the material may result in a possible risk of irreversible	e effects.		
P-TOLUENESULFONYL ISOCYANATE	for p-toluenesulfonyl isocyanate The acute oral toxicity (LD50) of PTSI is 2600 mg/kg. for p-toluenesulfonamide (PTSA): PTSA was studied for oral toxicity in rats in a single dose toxicity test at doses of 889, 1333, 2000 and 3000 mg/kg in females and 2000 mg/kg in males, and in an OECD combined repeat dose and reproductive/developmental toxicity screening test at doses of 0, 120, 300 and 750 mg/kg/day in both sexes .PTSA was also tested for mutagenicity with assays for reverse mutation in bacteria and chromosomal aberrations in cultured Chinese hamster (CHL) cells.			
XYLENE	Reproductive effector in rats The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limited in animal testing.			
ETHYLBENZENE	Liver changes, utheral tract, effects on fertility, foetotoxicity, specific developmental abnormalities (musculoskeletal system) recorded. Ethylbenzene is readily absorbed following inhalation, oral, and dermal exposures, distributed throughout the body, and excreted primarily through urine. NOTE: Substance has been shown to be mutagenic in at least one assay, or belongs to a family of chemicals producing damage or change to cellular DNA.			
	WARNING: This substance has been classified by the IARC as Gr	oup 2B: Pos	sibly Carcinogenic to Humans.	
TOLUENE	For toluene: Acute Toxicity Humans exposed to intermediate to high levels of toluene for short periods of time experience adverse central nervous system effects ranging from headaches to intoxication, convulsions, narcosis, and death.			
HEXAMETHYLENE DIISOCYANATE POLYMER	* Bayer SDS ** Ardex SDS The material may produce moderate eye irritation leading to inflammation.			
HEXAMETHYLENE DIISOCYANATE	For diisocyanates: In general, there appears to be little or no difference between aromatic and aliphatic diisocyanates as toxicants. For 1,6-hexamethylene diisocyanate: Exposures to HDI are often associated with exposures to its prepolymers, especially to a trimeric biuretic prepolymer of HDI (HDI-BT), which is widely used as a hardener in automobile and airplane paints, and which typically contains 0.5-1% unreacted HDI.			
RESENE MARINE SHIELD ULTRAFLEX PART A & P- TOLUENESULFONYL ISOCYANATE & HEXAMETHYLENE DIISOCYANATE	Asthma-like symptoms may continue for months or even years after exposure to the material ends.			
RESENE MARINE SHIELD ULTRAFLEX PART A & P- TOLUENESULFONYL ISOCYANATE & HEXAMETHYLENE DIISOCYANATE POLYMER & HEXAMETHYLENE DIISOCYANATE	Isocyanate vapours/mists are irritating to the upper respiratory tract and lungs; the response may be severe enough to produce bronchitis with wheezing, gasping and severe distress, even sudden loss of consciousness, and pulmonary oedema.			
P-TOLUENESULFONYL ISOCYANATE & HEXAMETHYLENE DIISOCYANATE POLYMER & HEXAMETHYLENE DIISOCYANATE	Allergic reactions which develop in the respiratory passages as bronchial asthma or rhinoconjunctivitis, are mostly the result of reactions of the allergen with specific antibodies of the IgE class and belong in their reaction rates to the manifestation of the immediate type. Particular attention is drawn to so-called atopic diathesis which is characterised by an increased susceptibility to allergic rhinitis, allergic bronchial asthma and atopic eczema (neurodermatitis) which is associated with increased IgE synthesis. Exogenous allergic alveolitis is induced essentially by allergen specific immune-complexes of the IgG type; cell-mediated reactions (T lymphocytes) may be involved.			
XYLENE & ETHYLBENZENE	The material may produce severe irritation to the eve causing prop	ounced infla	mmation.	
XYLENE & ETHYLBENZENE	The material may produce severe irritation to the eye causing pronounced inflammation.			
& TOLUENE & HEXAMETHYLENE DIISOCYANATE POLYMER	The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic).			
HEXAMETHYLENE DIISOCYANATE POLYMER & HEXAMETHYLENE DIISOCYANATE	The following information refers to contact allergens as a group and may not be specific to this product. No significant acute toxicological data identified in literature search.			

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			_
Acute Toxicity	×	Carcinogenicity	✓
Skin Irritation/Corrosion	✓	Reproductivity	✓
Serious Eye Damage/Irritation	✓	STOT - Single Exposure	~
Respiratory or Skin sensitisation	~	STOT - Repeated Exposure	*
Mutagenicity	×	Aspiration Hazard	*

Legend:

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

SECTION 12 Ecological information

Τον	

RESENE MARINE SHIELD	Endpoint	Test Duration (hr)		Species	Value		Source
ULTRAFLEX PART A	Not Available	Not Available		Not Available Not Available			Not Available
	Endpoint	Test Duration (hr)	Spe	ecies		Value	Source
	EC50(ECx)	48h		stacea		<0.463mg/L	
	BCF	1344h		Fish		2.2-40	7
dibutyltin dilaurate	EC50	72h		ae or other aquatic plant	:S	>1mg/l	2
	EC50	48h	_	Crustacea		<0.463mg/L	_ 2
	LC50	96h	Fisi	n		21.2mg/l	2
	Endpoint	Test Duration (hr)	9	Species		Value	Source
	NOEC(ECx)	72h		Algae or other aquatic pla	ants	10mg/l	2
oluenesulfonyl isocyanate	EC50	72h		Algae or other aquatic pla		25mg/l	2
, , , , , , , , , , , , , , , , , , , ,	EC50	48h		Crustacea		>100mg	
	LC50	96h		ish		>45mg/l	<u> </u>
	Endpoint	Test Duration (hr)		Species		Value	Source
	LC50	96h		Fish		2.6mg/l	
xylene	EC50	72h		Algae or other aquatic plants		4.6mg/l	
	EC50	48h		Crustacea		1.8mg/l	
	NOEC(ECx)	73h		Algae or other aquatic pl	ants	0.44mg	y/l 2
	Endpoint	Test Duration (hr)	Speci	es	Val	ue	Source
	EC50	72h	Algae	or other aquatic plants	2.4-	9.8mg/L	4
ethylbenzene	LC50	96h	Fish		3.38	31-4.075mg/L	. 4
etriyiberizerie	EC50	48h	Crusta	icea	1.37	7-4.4mg/l	4
	EC50(ECx)	24h	Algae	or other aquatic plants	0.02	2-938mg/L	4
	EC50	96h	Algae or other aquatic plants 1.7-7.6r		7.6mg/L	4	
	Endpoint	Test Duration (hr)	Spe	ecies		Value	Source
	EC50	72h	Alg	ae or other aquatic plant	ts	12.5mg/L	4
	LC50	96h	Fis	h		5-35mg/l	4
toluene	EC50	48h	Cru	ıstacea		3.78mg/L	5
	NOEC(ECx)	168h	Cru	ıstacea		0.74mg/l	2
	EC50	96h	Alg	ae or other aquatic plant	is	>376.71mg/l	L 4
	Endpoint	Test Duration (hr)	Spec	es	Va	lue	Source
	LC50	96h	Fish			00mg/l	Not Available
kamethylene diisocyanate	EC50(ECx)	48h	Crusta	acea		00mg/l	Not Available
polymer	EC50(ECX)	72h		or other aquatic plants		000mg/l	Not Available
	EC50	48h	Crust			00mg/l	Not Available
		FOII	Orusti			oomg/i	INOLAVallable
xamethylene diisocyanate	Endpoint	Test Duration (hr)	Sne	ecies		Value	Source
	Enapoint	rest Duration (III)	Opt	,0103			

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EC50	72h	Algae or other aquatic plants	>77.4mg/l	2
LC50	96h	Fish	22mg/l	1

Legend:

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

Harmful 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.

For Aromatic Substances Series:

Environmental Fate: Large, molecularly complex polycyclic aromatic hydrocarbons, or PAHs, are persistent in the environment longer than smaller PAHs.

for polyisocyanates:

Polyisocyanates are not readily biodegradable.

Hydrolysis would represents the primary fate mechanism for the majority of the commercial isocyanate monomers, but, is tempered somewhat by the lack of water solubility.

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.

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) coil : 442-240;

Half-life (hr) soil : <48-240; Henry's Pa m3 /mol : 518-694; Henry's atm m3 /mol : 5.94;

E-03BOD 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.

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
dibutyltin dilaurate	HIGH	HIGH
p-toluenesulfonyl isocyanate	HIGH	HIGH
xylene	HIGH (Half-life = 360 days)	LOW (Half-life = 1.83 days)
ethylbenzene	HIGH (Half-life = 228 days)	LOW (Half-life = 3.57 days)
toluene	LOW (Half-life = 28 days)	LOW (Half-life = 4.33 days)
hexamethylene diisocyanate polymer	HIGH	HIGH
hexamethylene diisocyanate	LOW	LOW

Bioaccumulative potential

Ingredient	Bioaccumulation
dibutyltin dilaurate	LOW (BCF = 110)
p-toluenesulfonyl isocyanate	LOW (LogKOW = 2.3424)
xylene	MEDIUM (BCF = 740)
ethylbenzene	LOW (BCF = 79.43)
toluene	LOW (BCF = 90)
hexamethylene diisocyanate polymer	LOW (LogKOW = 7.5795)
hexamethylene diisocyanate	LOW (LogKOW = 3.1956)

Mobility in soil

Ingredient	Mobility
dibutyltin dilaurate	LOW (Log KOC = 64610000)
p-toluenesulfonyl isocyanate	LOW (Log KOC = 882.1)
ethylbenzene	LOW (Log KOC = 517.8)
toluene	LOW (Log KOC = 268)
hexamethylene diisocyanate polymer	LOW (Log KOC = 18560000)
hexamethylene diisocyanate	LOW (Log KOC = 5864)

SECTION 13 Disposal considerations

Waste treatment methods

Product / Packaging disposal

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

Consult manufacturer for recycling option.

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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.

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



HAZCHEM

•3YE

Land transport (UN)

zana tranoport (ort)	-	
14.1. UN number or ID number	1263	
14.2. UN proper shipping name		ERIAL (including paint thinning or reducing compound); PAINT (including paint, lacquer, enamel, stain, shellac, iller and liquid lacquer base)
14.3. Transport hazard class(es)	Class Subsidiary Hazard	3 Not Applicable
14.4. Packing group	П	
14.5. Environmental hazard	Not Applicable	
14.6. Special precautions for user	Special provisions Limited quantity	163; 367 5 L

Air transport (ICAO-IATA / DGR)

14.1. UN number	1263			
14.2. UN proper shipping name	Paint related material (including paint thinning or reducing compounds); Paint (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base)			
	ICAO/IATA Class	3		
14.3. Transport hazard class(es)	ICAO / IATA Subsidiary Hazard	Not Applicable		
0.000(00)	ERG Code	3L		
14.4. Packing group	Ш			
14.5. Environmental hazard	Not Applicable			
	Special provisions		A3 A72 A192	
	Cargo Only Packing Instructions		364	
	Cargo Only Maximum Qty / Pack		60 L	
14.6. Special precautions for user	Passenger and Cargo Packing Instructions		353	
usci	Passenger and Cargo Maximum Qty / Pack		5 L	
	Passenger and Cargo Limited Qu	Passenger and Cargo Limited Quantity Packing Instructions		
	Passenger and Cargo Limited Maximum Qty / Pack		1 L	

Sea transport (IMDG-Code / GGVSee)

14.1. UN number	1263			
14.2. UN proper shipping name		PAINT RELATED MATERIAL (including paint thinning or reducing compound); PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base)		
14.3. Transport hazard class(es)	IMDG Class IMDG Subsidiary Haza	3 ard Not Applicable		
14.4. Packing group	II			
14.5 Environmental hazard	Not Applicable			
14.6. Special precautions for user		F-E , S-E 163 367		
	opediai providiona	100 001		

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Limited Quantities 5 L

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

Not Applicable

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

Product name	Group
dibutyltin dilaurate	Not Available
p-toluenesulfonyl isocyanate	Not Available
benzotriazole derivatives	Not Available
xylene	Not Available
ethylbenzene	Not Available
toluene	Not Available
hexamethylene diisocyanate polymer	Not Available
hexamethylene diisocyanate	Not Available

14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
dibutyltin dilaurate	Not Available
p-toluenesulfonyl isocyanate	Not Available
benzotriazole derivatives	Not Available
xylene	Not Available
ethylbenzene	Not Available
toluene	Not Available
hexamethylene diisocyanate polymer	Not Available
hexamethylene diisocyanate	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.

dibutyltin dilaurate is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

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)

p-toluenesulfonyl isocyanate is found on the following regulatory lists

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)

xylene is found on the following regulatory lists

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic

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)

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)

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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 - Not Classified as Carcinogenic

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)

hexamethylene diisocyanate polymer is found on the following regulatory lists

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)

hexamethylene diisocyanate 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)

Additional Regulatory Information

Not Applicable

Hazardous Substance Location

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
6.5A or 6.5B	120	1	3	
3.1B				1 L

Tracking Requirements

Not Applicable

National Inventory Status

National Inventory Status	
National Inventory	Status
Australia - AIIC / Australia Non- Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (dibutyltin dilaurate; p-toluenesulfonyl isocyanate; benzotriazole derivatives; xylene; ethylbenzene; toluene; hexamethylene diisocyanate)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	No (benzotriazole derivatives)
Japan - ENCS	Yes
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	No (p-toluenesulfonyl isocyanate; benzotriazole derivatives; hexamethylene diisocyanate polymer)
Vietnam - NCI	Yes
Russia - FBEPH	No (benzotriazole derivatives)
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.

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SECTION 16 Other information

Revision Date	15/04/2024
Initial Date	03/04/2019

SDS Version Summary

Version	Date of Update	Sections Updated
1.4	15/04/2024	Hazards identification - Classification, Ecological Information - Environmental, Accidental release measures - Spills (major), Accidental release measures - Spills (minor)

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
- ▶ DNEL: Derived No-Effect Level
- ▶ PNEC: Predicted no-effect concentration
- ▶ 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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RESENE MARINE SHIELD ULTRAFLEX PART A

Print Date: 15/04/2024

RESENE MARINE SHIELD ULTRAFLEX PART B RESENE AUTOMOTIVE & LIGHT INDUSTRIAL

Version No: 2.4

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

Issue Date: **15/04/2024**Print Date: **15/04/2024**L.GHS.NZL.EN

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

Product Identifier

Product name	RESENE MARINE SHIELD ULTRAFLEX PART B
Synonyms	Incl. Clear and White
Proper shipping name	PAINT RELATED MATERIAL (including paint thinning or reducing compound); PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base)
Other means of identification	Not Available

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

Relevant identified uses 10393, 10772

Details of the manufacturer or 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 (24/7)
Emergency telephone numbers	0800 764766	+64 800 700 112
Other emergency telephone numbers	0800 737636	+61 3 9573 3188

Once connected and if the message is not in your preferred language then please dial 01

SECTION 2 Hazards identification

Classification of the substance or mixture

Classification [1]	Flammable Liquids Category 3, Skin Corrosion/Irritation Category 2, Sensitisation (Skin) Category 1, Serious Eye Damage/Eye Irritation Category 2, Carcinogenicity Category 2, Reproductive Toxicity Category 2, Specific Target Organ Toxicity - Single Exposure Category 2, Specific Target Organ Toxicity - Repeated Exposure Category 2, Hazardous to the Aquatic Environment Long-Term 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, 6.3A, 6.4A, 6.5B (contact), 6.7B, 6.8B, 6.9B, 9.1C

Label elements

Hazard pictogram(s)







Signal word

Warning

Hazard statement(s)

nazaru statement(s)	
H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.
H371	May cause damage to organs. (Oral, Dermal, Inhalation)
H373	May cause damage to organs through prolonged or repeated exposure. (Oral, Dermal, Inhalation)
H412	Harmful to aquatic life with long lasting effects.

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RESENE MARINE SHIELD ULTRAFLEX PART B

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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.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P264	Wash all exposed external body areas thoroughly after handling.
P272	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.
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.
P314	Get medical advice/attention 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].

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	
119-61-9	0.1-2	<u>benzophenone</u>	
95-63-6	1-5	1,2,4-trimethyl benzene	
1330-20-7	1-5	<u>xylene</u>	
100-41-4	0.1-1 <u>ethylbenzene</u>		
Legend:	Legend: 1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * EU IOELVs available		

SECTION 4 First aid measures

Description of first aid measures

Description of first aid measur	-
Eye Contact	If this product comes in contact with the eyes: Nash 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 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.

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RESENE MARINE SHIELD ULTRAFLEX PART B

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- 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

▶ Foam.

Special hazards arising from the substrate or mixture

Fire Incompatibility	Avoid contamination with oxidising agents		
Advice for firefighters			
Fire Fighting	▶ Alert Fire Brigade and tell them location and nature of hazard.		
	Liquid and vapour are flammable. Combustion products include:		

SECTION 6 Accidental release measures

Fire/Explosion Hazard

Personal precautions, protective equipment and emergency procedures

carbon monoxide (CO) carbon dioxide (CO2)

other pyrolysis products typical of burning organic material.

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	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. • Clear area of personnel and move upwind.

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. 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 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	► strong oxidisers

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)	ethylbenzene	Ethyl benzene	20 ppm / 88 mg/m3	176 mg/m3 / 40 ppm	Not Available	(skin) - Skin absorption oto - Ototoxin

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Emergency Limits

Ingredient	TEEL-1	TEEL-2	TEEL-3
benzophenone	1.5 mg/m3	90 mg/m3	310 mg/m3
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
xylene	Not Available	Not Available	Not Available
ethylbenzene	Not Available	Not Available	Not Available

Ingredient	Original IDLH	Revised IDLH
benzophenone	Not Available	Not Available
1,2,4-trimethyl benzene	Not Available	Not Available
xylene	900 ppm	Not Available
ethylbenzene	800 ppm	Not Available

Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit	
benzophenone	E	≤ 0.01 mg/m³	
1,2,4-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.

These exposure guidelines have been derived from a screening level of risk assessment and should not be construed as unequivocally safe limits.

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 ethyl benzene:

Odour Threshold Value: 0.46-0.60 ppm

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

Exposure controls

Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard.
Individual protection measures, such as personal protective equipment	
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. NOTE: ▶ The material may produce skin sensitisation in predisposed individuals. 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 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	Liquid with strong solvent odour		
Physical state	Liquid	Relative density (Water = 1)	0.98

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Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	364
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	100
Initial boiling point and boiling range (°C)	175	Molecular weight (g/mol)	Not Available
Flash point (°C)	35	Taste	Not Available
Evaporation rate	0.58 BuAC = 1	Explosive properties	Not Available
Flammability	Flammable.	Oxidising properties	Not Available
Upper Explosive Limit (%)	6.3	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	1.0	Volatile Component (%vol)	79.4
Vapour pressure (kPa)	0.45	Gas group	Not Available
Solubility in water	Partly miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	3.43	VOC g/L	723

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

ULTRAFLEX PART B

benzophenone

Not Available

TOXICITY

ormation on toxicological e	fects		
Inhaled	A significant number of individuals exposed to mixed trimethylbenzenes complained of nervousness, tension, anxiety and asthmatic bronchitis. 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. Xylene is a central nervous system depressant.		
Ingestion	Swallowing of the liquid may cause aspiration of vomit into the lungs with the risk of haemorrhaging, pulmonary oedema, progressing to chemical pneumonitis; serious consequences may result.		
Skin Contact	Evidence exists, or practical experience predicts, that the material either produces inflammation of the skin in a substantial number of individuals following direct contact, and/or produces significant inflammation when applied to the healthy intact skin of animals, for up to fou hours, such inflammation being present twenty-four hours or more after the end of the exposure period. The material may accentuate any pre-existing dermatitis condition Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds or lesions, may produce systemic injury with harmful effects.		
Eye	Evidence exists, or practical experience predicts, that the material may cause eye irritation in a substantial number of individuals and/or may produce significant ocular lesions which are present twenty-four hours or more after instillation into the eye(s) of experimental animals.		
Chronic	On the basis, primarily, of animal experiments, concern has been expressed that the material may produce carcinogenic or mutagenic effects; in respect of the available information, however, there presently exists inadequate data for making a satisfactory assessment. Repeated or long-term occupational exposure is likely to produce cumulative health effects involving organs or biochemical systems. Practical experience shows that skin contact with the material is capable either of inducing a sensitisation reaction in a substantial number of individuals, and/or of producing a positive response in experimental animals. There is sufficient evidence to provide a strong presumption that human exposure to the material may result in impaired fertility on the basis of: - clear evidence in animal studies of impaired fertility in the absence of toxic effects, or evidence of impaired fertility occurring at around the same dose levels as other toxic effects but which is not a secondary non-specific consequence of other toxic effects. Prolonged or repeated contact with xylenes may cause defatting dermatitis with drying and cracking.		
RESENE MARINE SHIELD	TOXICITY	IRRITATION	

Not Available

IRRITATION

Continued	

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Eye: no adverse effect observed (not irritating) $^{[1]}$

RESENE MARINE SHIELD ULTRAFLEX PART B

Dermal (rabbit) LD50: 3535 $\mathrm{mg/kg^{[2]}}$

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		Skin: no adverse effect obser	rved (not irritating) ^[1]	
	Oral (Mouse) LD50; 2895 mg/kg ^[2]			
	TOWNER		IDDITATION	
	TOXICITY	IRRITATION Not Available		
1,2,4-trimethyl benzene	Dermal (rabbit) LD50: >3160 mg/kg ^[2]		Not Available	
	Inhalation (Rat) LC50: 18 mg/L4h ^[2]			
	Oral (Rat) LD50: 6000 mg/kg ^[1]			
	TOXICITY	IRRITATION		
	Dermal (rabbit) LD50: >1700 mg/kg ^[2] Eye (human): 200 ppm		n irritant	
	Inhalation (Rat) LC50: 5000 ppm4h ^[2] Eye (rabbit): 5 mg/24h		SEVERE	
xylene	Oral (Mouse) LD50; 2119 mg/kg ^[2] Eye (rabbit): 87 mg m		ld	
		Eye: adverse effect ob	oserved (irritating) ^[1]	
		Skin (rabbit):500 mg/24		
		Skin: adverse effect ob	oserved (irritating) ^[1]	
	TOWNSTA	IRRITATION		
	TOXICITY Dermal (rabbit) LD50: 17800 mg/kg ^[2]	Eye (rabbit): 500 mg - SEVE	ERE .	
ethylbenzene	Inhalation (Rat) LC50: 17.2 mg/l4h ^[2]	Eye: no adverse effect obse		
ettiyibetizetle	Oral (Rat) LD50: 3500 mg/kg ^[2]	Skin (rabbit): 15 mg/24h mil		
	Ofai (Rat) LD50. 3500 flig/kg ^{c 2}	Skin: no adverse effect obse	***	
	specified data extracted from RTECS - Register of	f Tayin Effort of chamical Cubatanaca		
		TOXIC Effect of chemical substances		
RESENE MARINE SHIELD ULTRAFLEX PART B	Data demonstrate that during inhalation exposure,		ntial partitioning into adipose tissues.	
	Data demonstrate that during inhalation exposure, A member or analogue of a group of of aromatic s (GRAS) based, in part, on their rapid absorption, r use; the wide margins of safety between the conse	aromatic hydrocarbons undergo substan ubstituted secondary alcohols, ketones, a netabolic detoxication, and excretion in h ervative estimates of intake and the no-ol nificant genotoxic and mutagenic potenti	and related esters generally regarded as safe numans and other animals; their low level of flavo observed-adverse effect levels determined from	
ULTRAFLEX PART B BENZOPHENONE	Data demonstrate that during inhalation exposure, A member or analogue of a group of of aromatic s (GRAS) based, in part, on their rapid absorption, r use; the wide margins of safety between the conse	aromatic hydrocarbons undergo substan ubstituted secondary alcohols, ketones, a netabolic detoxication, and excretion in h ervative estimates of intake and the no-ol nificant genotoxic and mutagenic potentian 17 of the 38 agents in this group.	and related esters generally regarded as safe numans and other animals; their low level of flavo observed-adverse effect levels determined from ial.	
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BENZOPHENONE 1,2,4-TRIMETHYL BENZENE	Data demonstrate that during inhalation exposure, A member or analogue of a group of of aromatic s (GRAS) based, in part, on their rapid absorption, r use; the wide margins of safety between the conse subchronic and chronic studies and the lack of sig Acute rat oral LD50 values have been reported for Other Toxicity data is available for CHEMWATCH Reproductive effector in rats The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humar Evidence of carcinogenicity may be inadequate or Liver changes, utheral tract, effects on fertility, foe Ethylbenzene is readily absorbed following inhalat through urine. NOTE: Substance has been shown to be mutager	aromatic hydrocarbons undergo substan ubstituted secondary alcohols, ketones, a netabolic detoxication, and excretion in hervative estimates of intake and the no-ol nificant genotoxic and mutagenic potentiant of the 38 agents in this group. 12172 1,2,3-trimethylbenzene CHEMWA ans. Ilimited in animal testing. totoxicity, specific developmental abnormation, oral, and dermal exposures, distributions.	and related esters generally regarded as safe numans and other animals; their low level of flavous beserved-adverse effect levels determined from ial. ATCH 2325 1,3,5-trimethylbenzene nalities (musculoskeletal system) recorded. Itted throughout the body, and excreted primarily	
BENZOPHENONE 1,2,4-TRIMETHYL BENZENE XYLENE ETHYLBENZENE RESENE MARINE SHIELD ULTRAFLEX PART B &	Data demonstrate that during inhalation exposure, A member or analogue of a group of of aromatic s (GRAS) based, in part, on their rapid absorption, r use; the wide margins of safety between the conse subchronic and chronic studies and the lack of sig Acute rat oral LD50 values have been reported for Other Toxicity data is available for CHEMWATCH Reproductive effector in rats The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humar Evidence of carcinogenicity may be inadequate or Liver changes, utheral tract, effects on fertility, foe Ethylbenzene is readily absorbed following inhalat through urine.	aromatic hydrocarbons undergo substan ubstituted secondary alcohols, ketones, a netabolic detoxication, and excretion in hervative estimates of intake and the no-ol nificant genotoxic and mutagenic potentic 17 of the 38 agents in this group. 12172 1,2,3-trimethylbenzene CHEMWA 1s. Ilimited in animal testing. totoxicity, specific developmental abnormion, oral, and dermal exposures, distribution in at least one assay, or belongs to a final dermal exposures.	and related esters generally regarded as safe numans and other animals; their low level of flavor observed-adverse effect levels determined from ial. ATCH 2325 1,3,5-trimethylbenzene nalities (musculoskeletal system) recorded. Ited throughout the body, and excreted primarily family of chemicals producing damage or change	
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BENZOPHENONE 1,2,4-TRIMETHYL BENZENE XYLENE ETHYLBENZENE RESENE MARINE SHIELD ULTRAFLEX PART B & BENZOPHENONE RESENE MARINE SHIELD JLTRAFLEX PART B & 1,2,4- TRIMETHYL BENZENE BENZOPHENONE & 1,2,4- TRIMETHYL BENZENE BENZOPHENONE & 1,2,4- TRIMETHYL BENZENE BENZOPHENONE & 1,2,4- TRIMETHYL BENZENE BENZOPHENONE & 1,2,4- TRIMETHYL BENZENE XYLENE & ETHYLBENZENE	Data demonstrate that during inhalation exposure, A member or analogue of a group of of aromatic s (GRAS) based, in part, on their rapid absorption, r use; the wide margins of safety between the conse subchronic and chronic studies and the lack of sig Acute rat oral LD50 values have been reported for Other Toxicity data is available for CHEMWATCH Reproductive effector in rats The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humar Evidence of carcinogenicity may be inadequate or Liver changes, utheral tract, effects on fertility, foe Ethylbenzene is readily absorbed following inhalat through urine. NOTE: Substance has been shown to be mutager to cellular DNA. The following information refers to contact allerger For trimethylbenzenes: Absorption of 1,2,4-trimethylbenzene occurs after Asthma-like symptoms may continue for months of WARNING: This substance has been classified by The material may produce severe irritation to the of The material may cause skin irritation after prolong	aromatic hydrocarbons undergo substan ubstituted secondary alcohols, ketones, a netabolic detoxication, and excretion in hervative estimates of intake and the no-ol nificant genotoxic and mutagenic potentic 17 of the 38 agents in this group. 12172 1,2,3-trimethylbenzene CHEMWA is. limited in animal testing. Itotoxicity, specific developmental abnormion, oral, and dermal exposures, distribution in at least one assay, or belongs to a fine as a group and may not be specific to oral, inhalation, or dermal exposure. In even years after exposure to the material the IARC as Group 2B: Possibly Carcinological or repeated exposure and may product carcinogenicity.	and related esters generally regarded as safe numans and other animals; their low level of flavo observed-adverse effect levels determined from ial. ATCH 2325 1,3,5-trimethylbenzene nalities (musculoskeletal system) recorded. Ited throughout the body, and excreted primarily family of chemicals producing damage or change this product. ital ends. nogenic to Humans. uce a contact dermatitis (nonallergic).	
BENZOPHENONE 1,2,4-TRIMETHYL BENZENE XYLENE ETHYLBENZENE RESENE MARINE SHIELD ULTRAFLEX PART B & BENZOPHENONE RESENE MARINE SHIELD JLTRAFLEX PART B & 1,2,4- TRIMETHYL BENZENE BENZOPHENONE & 1,2,4- TRIMETHYL BENZENE BENZOPHENONE & 1,2,4- TRIMETHYL BENZENE BENZOPHENONE & 1,2,4- TRIMETHYL BENZENE BENZOPHENONE & 2,4- TRIMETHYL BENZENE BENZOPHENONE & 2,4- TRIMETHYL BENZENE ACUTE TOXICITY Skin Irritation/Corrosion Serious Eye	Data demonstrate that during inhalation exposure. A member or analogue of a group of of aromatic s (GRAS) based, in part, on their rapid absorption, r use; the wide margins of safety between the const subchronic and chronic studies and the lack of sig Acute rat oral LD50 values have been reported for Other Toxicity data is available for CHEMWATCH Reproductive effector in rats The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humar Evidence of carcinogenicity may be inadequate or Liver changes, utheral tract, effects on fertility, foe Ethylbenzene is readily absorbed following inhalat through urine. NOTE: Substance has been shown to be mutager to cellular DNA. The following information refers to contact allerger For trimethylbenzenes: Absorption of 1,2,4-trimethylbenzene occurs after Asthma-like symptoms may continue for months of the material may produce severe irritation to the efficiency of the material may cause skin irritation after prolong.	aromatic hydrocarbons undergo substan ubstituted secondary alcohols, ketones, a netabolic detoxication, and excretion in h ervative estimates of intake and the no-ol nificant genotoxic and mutagenic potenti- 17 of the 38 agents in this group. 12172 1,2,3-trimethylbenzene CHEMWA ins. Ilimited in animal testing. Itotoxicity, specific developmental abnormation, oral, and dermal exposures, distribution, oral, and dermal exposures to a fine in at least one assay, or belongs to a fine in at least one assay, or belongs to a fine in a fi	and related esters generally regarded as safe numans and other animals; their low level of flavo observed-adverse effect levels determined from ial. ATCH 2325 1,3,5-trimethylbenzene Inalities (musculoskeletal system) recorded. Ited throughout the body, and excreted primarily family of chemicals producing damage or change this product. It is product. In it is product. In it is product to Humans. In it is a contact dermatitis (nonallergic).	

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RESENE MARINE SHIELD ULTRAFLEX PART B

Print Date: 15/04/2024

Toxicity

RESENE MARINE SHIELD ULTRAFLEX PART B	Endpoint	t Test Duration (hr)		Species Value			Source	
	Not Available Not Available Not Available Not Available Not A				Not Available			
	Endpoint	Test Duration (hr)	Spec	ies		Value	Source	
benzophenone	LC50	96h	Fish			9.64-12.31mg	/I 4	
	EC50	72h	Alga	e or other aquatic plants	S	1.8mg/l	2	
	BCF	1008h	Fish			3.4-9.2	7	
	EC50	48h	Crus	tacea		6.784mg/l	2	
	NOEC(ECx)	504h	Crus	tacea		0.2mg/l	2	
	Endpoint	Test Duration (hr)		ecies		Value	Source	
	BCF	1344h	Fisl	1		31-207	7	
1,2,4-trimethyl benzene	EC50(ECx)	96h	Alg	Algae or other aquatic plants		2.356mg/l	2	
., <u>_</u> ,	EC50	96h	Alg	Algae or other aquatic plants		2.356mg/l	2	
	EC50	48h	Cru	Crustacea		ca.6.14mg/	/I 1	
	LC50	96h	Fisl	1		3.41mg/l	2	
	Endpoint	Test Duration (hr) Species			Value	Source		
	LC50	96h		ish		2.6mg/	1 2	
xylene	EC50	72h		Algae or other aquatic pl	ants	4.6mg/		
	EC50	48h		Crustacea		1.8mg/	1 2	
	NOEC(ECx)	73h	,	algae or other aquatic pl	ants	0.44mg		
	Endpoint	Test Duration (hr)	Specie			alue	Source	
	EC50	72h				.4-9.8mg/L	. 4	
ethylbenzene	LC50	96h	6h Fish		3	3.381-4.075mg/L		
ŕ	EC50	48h	8h Crustacea		cea 1.37-4.4mg/l		4	
	EC50(ECx)	24h	Algae	or other aquatic plants	0	.02-938mg/L	4	
	EC50	96h	Algae	or other aquatic plants	1	.7-7.6mg/L	4	
Legend:	Extracted from 1.	IUCLID Toxicity Data 2. Euro	ppe ECHA Re	gistered Substances - E	Ecotoxicological li	nformation - Ag	uatic Toxicity 4. US	

Harmful 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.

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. For Aromatic Substances Series:

Environmental Fate: Large, molecularly complex polycyclic aromatic hydrocarbons, or PAHs, are persistent in the environment longer than smaller PAHs.

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. DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
benzophenone	HIGH	HIGH
1,2,4-trimethyl benzene	LOW (Half-life = 56 days)	LOW (Half-life = 0.67 days)
xylene	HIGH (Half-life = 360 days)	LOW (Half-life = 1.83 days)
ethylbenzene	HIGH (Half-life = 228 days)	LOW (Half-life = 3.57 days)

Bioaccumulative potential

Ingredient	Bioaccumulation
benzophenone	LOW (BCF = 9.2)
1,2,4-trimethyl benzene	LOW (BCF = 275)
xylene	MEDIUM (BCF = 740)
ethylbenzene	LOW (BCF = 79.43)

Mobility in soil

,	
Ingredient	Mobility
benzophenone	LOW (Log KOC = 1077)

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RESENE MARINE SHIELD ULTRAFLEX PART B

Mobilityog KOC = 717.6) Ingradient thyl benzene

SECTION 13 Disposal considerations

Waste treatment methods

ethylbenzene

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

LOW (Log KOC = 517.8)

Consult manufacturer for recycling option.

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



	l
Marine Pollutant	NO
HAZCHEM	•3Y

Land transport (UN)

1263		
PAINT RELATED MATERIAL (including paint thinning or reducing compound); PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base)		
Class 3 Subsidiary Hazard N	Not Applicable	
III		
Not Applicable		
<u> </u>	63; 223; 367 5 L	
	PAINT RELATED MATER varnish, polish, liquid filler Class : Subsidiary Hazard III Not Applicable Special provisions 1	

Air transport (ICAO-IATA / DGR)

14.1. UN number	1263			
14.2. UN proper shipping name	Paint related material (including paint thinning or reducing compounds); Paint (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base)			
	ICAO/IATA Class	3		
14.3. Transport hazard class(es)	ICAO / IATA Subsidiary Hazard	Not Applicable		
ciass(es)	ERG Code	3L		
14.4. Packing group	III			
14.5. Environmental hazard	Not Applicable			
	Special provisions		A3 A72 A192	
	Cargo Only Packing Instructions		366	
	Cargo Only Maximum Qty / Pack		220 L	
14.6. 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	

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RESENE MARINE SHIELD ULTRAFLEX PART B

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14.1. UN number	1263		
14.2. UN proper shipping name	PAINT RELATED MATERIAL (including paint thinning or reducing compound); PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base)		
14.3. Transport hazard	IMDG Class	3	
class(es)	IMDG Subsidiary Ha	zard Not Applicable	
14.4. Packing group			
14.5 Environmental hazard	Not Applicable		
	EMS Number	F-E , S-E	
14.6. Special precautions for user	Special provisions	163 223 367 955	
	Limited Quantities	5 L	

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

Not Applicable

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

Product name	Group
benzophenone	Not Available
1,2,4-trimethyl benzene	Not Available
xylene	Not Available
ethylbenzene	Not Available

14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
benzophenone	Not Available
1,2,4-trimethyl benzene	Not Available
xylene	Not Available
ethylbenzene	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.

benzophenone 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 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 Land Transport Rule: Dangerous Goods 2005 - Schedule 1 Quantity limits for dangerous goods

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 Inventory of Chemicals (NZIoC)

New Zealand Land Transport Rule; Dangerous Goods 2005 - Schedule 2 Dangerous Goods in Limited Quantities and Consumer Commodities

xylene is found on the following regulatory lists

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic

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)

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)

Additional Regulatory Information

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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	
National Inventory	Status
Australia - AIIC / Australia Non- Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (benzophenone; 1,2,4-trimethyl benzene; xylene; ethylbenzene)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	Yes
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	Yes
Vietnam - NCI	Yes
Russia - FBEPH	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	15/04/2024
Initial Date	02/04/2019

SDS Version Summary

Version	Date of Update	Sections Updated
2.4	15/04/2024	Toxicological information - Chronic Health, Hazards identification - Classification, Identification of the substance / mixture and of the company / undertaking - Use

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

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- ▶ OTV: Odour Threshold Value
- ▶ BCF: BioConcentration Factors
- ▶ BEI: Biological Exposure Index
- ▶ DNEL: Derived No-Effect Level
- ▶ PNEC: Predicted no-effect concentration
- ▶ 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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RESENE MARINE SHIELD ULTRAFLEX PART B

RESENE MARINE SHIELD ULTRAFLEX REDUCER RESENE AUTOMOTIVE & LIGHT INDUSTRIAL

Version No: 2.4

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

Issue Date: **15/04/2024**Print Date: **15/04/2024**L.GHS.NZL.EN

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

Product Identifier

Product name	RESENE MARINE SHIELD ULTRAFLEX REDUCER		
Synonyms	Not Available		
Proper shipping name	PAINT RELATED MATERIAL (including paint thinning or reducing compound); PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base)		
Other means of identification	Not Available		

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

Relevant identified uses 10389

Details of the manufacturer or 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 (24/7)
Emergency telephone numbers	0800 764766	+64 800 700 112
Other emergency telephone numbers	0800 737636	+61 3 9573 3188

Once connected and if the message is not in your preferred language then please dial 01

SECTION 2 Hazards identification

Classification of the substance or mixture

Chaomicalion of the capitalion of mixture	
Classification ^[1]	Flammable Liquids Category 2, Acute Toxicity (Oral) Category 4, Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2, Acute Toxicity (Inhalation) Category 4, Reproductive Toxicity Category 2, Specific Target Organ Toxicity - Single Exposure Category 2, Specific Target Organ Toxicity - Repeated Exposure Category 2, Hazardous to the Aquatic Environment Long-Term 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, 6.1D (inhalation), 6.1D (oral), 6.3A, 6.4A, 6.8B, 6.9B, 9.1C

Label elements

Hazard pictogram(s)







Signal word

Danger

Hazard statement(s)

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H361	Suspected of damaging fertility or the unborn child.
H371	May cause damage to organs. (Oral, Dermal, Inhalation)
H373	May cause damage to organs through prolonged or repeated exposure. (Oral, Dermal, Inhalation)
H412	Harmful to aquatic life with long lasting effects.

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RESENE MARINE SHIELD ULTRAFLEX REDUCER

Print Date: 15/04/2024

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.
P271	Use only a well-ventilated area.
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.
P270	Do not eat, drink or smoke when using this product.
P264	Wash all exposed external body areas thoroughly after handling.
P273	Avoid release to the environment.

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.
P308+P311	IF exposed or concerned: Call a POISON CENTER/doctor/physician/first aider.
P337+P313	If eye irritation persists: Get medical advice/attention.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider if you feel unwell.
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].
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P330	Rinse mouth.
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

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
77-58-7	0.1-1	dibutyltin dilaurate
108-88-3	40-80	toluene
Legend:	1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * EU IOELVs available	

SECTION 4 First aid measures

Description of first aid measures

Description of first aid measures	
Eye Contact	If this product comes in contact with the eyes: Nash 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: 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 aerosols, fumes or combustion products are inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms develop seek medical attention.
Ingestion	 If swallowed doNOT 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.

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- 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.
- If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus.

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	
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. Contains low boiling substance: Closed containers may rupture due to pressure buildup under fire conditions. WARNING: Long standing in contact with air and light may result in the formation 	

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

of potentially explosive peroxides.

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	 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. 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	 strong oxidisers Methyl isobutyl ketone (MIBK) forms unstable and explosive peroxides on contact with air and/ or when in contact with hydrogen peroxide reacts violently with strong oxidisers, aldehydes, aliphatic amines, nitric acid, perchloric acid, potassium tert-butoxide, strong acids, reducing agents dissolves some plastics, resins and rubber Toluene: reacts violently with strong oxidisers, chlorine, hydrochloric acid/ sulfuric acid mixture, concentrated nitric acid, nitrogen dioxide, silver chloride, vinyl acetate forms explosive mixtures with strong acids, strong oxidisers attacks some plastics, rubber and coatings may generate electrostatic charges, due to low conductivity, on flow or agitation.

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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)	dibutyltin dilaurate	Tin: Organic compounds including mono- and dimethyltin and n-butyltin (not otherwise classified) as Sn: non-irritant compounds	0.05 mg/m3	0.1 mg/m3	Not Available	(skin) - Skin absorption oto - Ototoxin
New Zealand Workplace Exposure Standards (WES)	dibutyltin dilaurate	Tin: Organic compounds including mono- and dimethyltin and n-butyltin (not otherwise classified) as Sn: irritant compounds	0.05 mg/m3	0.02 mg/m3	Not Available	(skin) - Skin absorption oto - Ototoxin
New Zealand Workplace Exposure Standards (WES)	toluene	Toluene (Toluol)	20 ppm / 75 mg/m3	377 mg/m3 / 100 ppm	Not Available	(skin) - Skin absorption oto - Ototoxin (bio) - Exposure can also be estimated by biological monitoring

Emergency Limits

Ingredient	TEEL-1	TEEL-2	TEEL-3
dibutyltin dilaurate	1.1 mg/m3	8 mg/m3	48 mg/m3
toluene	Not Available	Not Available	Not Available

Ingredient	Original IDLH	Revised IDLH
dibutyltin dilaurate	25 mg/m3	Not Available
toluene	500 ppm	Not Available

MATERIAL DATA

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.

Exposure controls

Exposure controls	
Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard.
Individual protection measures, such as personal protective equipment	
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. NOTE: ▶ The material may produce skin sensitisation in predisposed individuals. 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	 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	Clear colourless liquid with strong solvent odour			
Physical state	Liquid	Relative density (Water = 1)	0.876	
Odour	Not Available	Partition coefficient n-octanol / water	Not Available	
Odour threshold	Not Available	Auto-ignition temperature (°C)	>530	

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pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	0.64
Initial boiling point and boiling range (°C)	116	Molecular weight (g/mol)	Not Available
Flash point (°C)	11	Taste	Not Available
Evaporation rate	BuAC = 1	Explosive properties	Not Available
Flammability	HIGHLY FLAMMABLE.	Oxidising properties	Not Available
Upper Explosive Limit (%)	6.7	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	1.3	Volatile Component (%vol)	99.2
Vapour pressure (kPa)	>7	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	>1	VOC g/L	867

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

dibutyltin dilaurate

Information	on	toxicolo	gical	effects
milomiation	٠.,	LOXICOIO	gicai	CIICCIS

nformation on toxicological ef	fects			
Inhaled	Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may be harmful. 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 Central nervous system (CNS) depression may include nonspecific discomfort, symptoms of giddiness, headache, dizziness, nausea, anaesthetic effects, slowed reaction time, slurred speech and may progress to unconsciousness.			
Ingestion	Swallowing of the liquid may cause aspiration of vomit into the lungs we chemical pneumonitis; serious consequences may result. Considered an unlikely route of entry in commercial/industrial environments at sufficiently high doses the material may be hepatotoxic (i.e. poisonoments).	ments.		
Skin Contact	The material may accentuate any pre-existing dermatitis condition Toxic effects may result from skin absorption Open cuts, abraded or irritated skin should not be exposed to this mat Entry into the blood-stream through, for example, cuts, abrasions, pur effects.			
Еуе	Undiluted propylene glycol monomethyl ether acetate (PGMEA) cause injury in rabbits Evidence exists, or practical experience predicts, that the material ma and/or may produce significant ocular lesions which are present twent animals. The liquid produces a high level of eye discomfort and is capable of capable.	y cause severe eye irritation in a substantial number of individuals ty-four hours or more after instillation into the eye(s) of experimental		
Chronic	Exposure to the material may cause concerns for human fertility, gene evidence to cause a strong suspicion of impaired fertility in the absent the same dose levels as other toxic effects, but which are not a secon Chronic toluene habituation occurs following intentional abuse (glue s On the basis, primarily, of animal experiments, concern has been expeffects; in respect of the available information, however, there present	ce of toxic effects, or evidence of impaired fertility occurring at around idary non-specific consequence of other toxic effects. niffing) or from occupational exposure. ressed that the material may produce carcinogenic or mutagenic		
	TOXICITY	IRRITATION		
RESENE MARINE SHIELD ULTRAFLEX REDUCER	Not Available	Not Available		
	TOXICITY	IRRITATION		

Eye (rabbit): 100 mg/24h -moderate

Skin (rabbit): 500 mg/24h - mild

dermal (rat) LD50: >2000 mg/kg^[1]

Oral (Rat) LD50: 175 mg/kg^[2]

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	TOXICITY	IRRITATION		
	Dermal (rabbit) LD50: 12124 mg/kg ^[2]	Eye (rabbit): 2mg/24h -	SEVERE	
	Inhalation (Rat) LC50: >13350 ppm4h ^[2]	Eye (rabbit):0.87 mg - r	nild	
	Oral (Rat) LD50: 636 mg/kg ^[2]	Eye (rabbit):100 mg/30s	sec - mild	
toluene		Eye: adverse effect obs	served (irritating) ^[1]	
		Skin (rabbit):20 mg/24h	i-moderate	
		Skin (rabbit):500 mg - moderate		
		Skin: adverse effect obs	served (irritating) ^[1]	
		Skin: no adverse effect	observed (not irritating) ^[1]	
Legend:	Value obtained from Europe ECHA Registered Stage specified data extracted from RTECS - Register of 1		btained from manufacturer's SDS. Unless otherwise	
RESENE MARINE SHIELD ULTRAFLEX REDUCER	Asthma-like symptoms may continue for months or or the following information refers to contact allergens Data demonstrate that during inhalation exposure, as Generally, linear and branched-chain alkyl esters are and most tissues throughout the body.	as a group and may not be specific romatic hydrocarbons undergo subst	to this product.	
TOLUENE	The material may cause skin irritation after prolonge	ed or repeated exposure and may pro	oduce a contact dermatitis (nonallergic).	
RESENE MARINE SHIELD ULTRAFLEX REDUCER & DIBUTYLTIN DILAURATE	Exposure to the material may result in a possible risk of irreversible effects.			
RESENE MARINE SHIELD ULTRAFLEX REDUCER & TOLUENE	For toluene: Acute Toxicity Humans exposed to intermediate to high levels of to ranging from headaches to intoxication, convulsions		ience adverse central nervous system effects	
Acute Toxicity	~	Carcinogenicity	×	
Skin Irritation/Corrosion	*	Reproductivity	✓	
Serious Eye Damage/Irritation	✓	STOT - Single Exposure	~	
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	~	

Legend:

Aspiration Hazard

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

– Data available to make classification

SECTION 12 Ecological information

Mutagenicity

RESENE MARINE SHIELD ULTRAFLEX REDUCER	Endpoint	Test Duration (hr)	Species	Value	Sour	ce
	Not Available	Not Available	Not Available	Not Available	ailable Not Ava	
	Endpoint	Test Duration (hr)	Species		Value	Source
	EC50(ECx)	48h	Crustacea		<0.463mg/L	2
ماناه مناناه ماناه	BCF	1344h	Fish		2.2-40	7
dibutyltin dilaurate	EC50	72h	Algae or other aquatic plant	s	>1mg/l	2
	EC50	48h	Crustacea		<0.463mg/L	2
	LC50	96h	Fish		21.2mg/l	2
	Endpoint	Test Duration (hr)	Species	,	Value	Source
	EC50	72h	Algae or other aquatic plant	ts .	12.5mg/L	4
4-1	LC50	96h	Fish		5-35mg/l	4
toluene	EC50	48h	Crustacea	;	3.78mg/L	5
	NOEC(ECx)	168h	Crustacea	(0.74mg/l	2
	EC50	96h	Algae or other aquatic plant	ts :	>376.71mg/L	4
Legend:	Extracted from 1	ILICUID Toxicity Data 2 Europe	e ECHA Registered Substances - E	- -cotovicological Infor	mation - Aquatic	Tovicity 4 119

Harmful 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.

For Propylene Glycol Ethers: log Kow's range from 0.309 for TPM to 1.523 for DPnB.
For Aromatic Substances Series:
Environmental Fate: Large, molecularly complex polycyclic aromatic hydrocarbons, or PAHs, are persistent in the environment longer than smaller PAHs.

for methyl isobutyl ketone (MIBK)

log Kow : 1.19-1.31 Koc : 19-106

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Half-life (hr) air : 15-17

Half-life (hr) H2O surface water : 15-33

Henry's atm m3 /mol: 9.40E-05

BOD 5: 0.12-2.14,4.

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

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: 5.94;

E-03BOD 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. For n-Butyl Acetate: Koc: ~200; log Kow: 1.78; 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.

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air	
dibutyltin dilaurate	HIGH	HIGH	
toluene	LOW (Half-life = 28 days)	LOW (Half-life = 4.33 days)	

Bioaccumulative potential

Ingredient	Bioaccumulation
dibutyltin dilaurate	LOW (BCF = 110)
toluene	LOW (BCF = 90)

Mobility in soil

Ingredient	Mobility
dibutyltin dilaurate	LOW (Log KOC = 64610000)
toluene	LOW (Log KOC = 268)

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.

Consult manufacturer for recycling option.

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

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Land transport (UN)

14.1. UN number or ID number	1263		
14.2. UN proper shipping name	PAINT RELATED MATERIAL (including paint thinning or reducing compound); PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base)		
14.3. Transport hazard class(es)	Class Subsidiary Hazard	3 Not Applicable	
14.4. Packing group	II		
14.5. Environmental hazard	Not Applicable		
14.6. Special precautions for user	Special provisions Limited quantity	163; 367 5 L	

Air transport (ICAO-IATA / DGR)

14.1. UN number	1263			
14.2. UN proper shipping name	Paint related material (including paint thinning or reducing compounds); Paint (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base)			
	ICAO/IATA Class	3		
14.3. Transport hazard class(es)	ICAO / IATA Subsidiary Hazard	Not Applicable		
0.000(00)	ERG Code	3L		
14.4. Packing group	П	II.		
14.5. Environmental hazard	Not Applicable			
	Special provisions		A3 A72 A192	
	Cargo Only Packing Instructions		364	
	Cargo Only Maximum Qty / Pack		60 L	
14.6. Special precautions for user	Passenger and Cargo Packing Instructions		353	
	Passenger and Cargo Maximum Qty / Pack		5 L	
	Passenger and Cargo Limited Quantity Packing Instructions		Y341	
	Passenger and Cargo Limited Maximum Qty / Pack		1 L	

Sea transport (IMDG-Code / GGVSee)

14.1. UN number	1263		
14.2. UN proper shipping name	PAINT RELATED MATERIAL (including paint thinning or reducing compound); PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base)		
14.3. Transport hazard IMDG Class 3		3	
class(es)	IMDG Subsidiary Ha	azard Not Applicable	
14.4. Packing group	II		
14.5 Environmental hazard	Not Applicable		
	EMS Number	F-E , S-E	
14.6. Special precautions for user	Special provisions	163 367	
	Limited Quantities	5 L	

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

Not Applicable

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

Product name	Group
dibutyltin dilaurate	Not Available
toluene	Not Available

14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
dibutyltin dilaurate	Not Available
toluene	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

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

dibutyltin dilaurate is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

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 - Not Classified as Carcinogenic

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)

Additional Regulatory Information

Not Applicable

Hazardous Substance Location

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
Canada - DSL	Yes
Canada - NDSL	No (dibutyltin dilaurate; toluene)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	Yes
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	Yes
Vietnam - NCI	Yes
Russia - FBEPH	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	15/04/2024
Initial Date	23/07/2015

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Version Date of Upda		Sections Updated
1.4 15/04,	04/2024	Toxicological information - Acute Health (eye), Toxicological information - Acute Health (inhaled), Toxicological information - Acute Health (skin), Toxicological information - Acute Health (swallowed), First Aid measures - Advice to Doctor, Toxicological information - Chronic Health, Hazards identification - Classification, Ecological Information - Environmental, Exposure controls / personal protection - Exposure Standard, Firefighting measures - Fire Fighter (extinguishing media), First Aid measures - First Aid (inhaled), Handling and storage - Handling Procedure, Exposure controls / personal protection - Personal Protection (Respirator), Exposure controls / personal protection - Personal Protection (hands/feet), Accidental release measures - Spills (major), Handling and storage - Storage (storage incompatibility), Identification of the substance / mixture and of the company / undertaking - Supplier Information

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
- DNEL: Derived No-Effect Level
- ▶ PNEC: Predicted no-effect concentration
- ▶ 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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RESENE MARINE SHIELD ULTRAPREP RESENE AUTOMOTIVE & LIGHT INDUSTRIAL

Version No: 2.2

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

Issue Date: **15/04/2024**Print Date: **15/04/2024**L.GHS.NZL.EN

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

Product Identifier		
Product name RESENE MARINE SHIELD ULTRAPREP Synonyms Not Available		
		Proper shipping name
Other means of identification Not Available		

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

Relevant identified uses	10390
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Details of the manufacturer or 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	Email advice@resene.co.nz	

Emergency telephone number

Association / Organisation	NZ POISONS (24hr 7 days)	CHEMWATCH EMERGENCY RESPONSE (24/7)
Emergency telephone numbers	0800 764766	+64 800 700 112
Other emergency telephone numbers	0800 737636	+61 3 9573 3188

Once connected and if the message is not in your preferred language then please dial 01

SECTION 2 Hazards identification

Classification of the substance or mixture

Classification [1]	Flammable Liquids Category 3, Acute Toxicity (Oral) Category 4, Acute Toxicity (Dermal) Category 4, Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2, Carcinogenicity Category 2, Reproductive Toxicity Category 2, Specific Target Organ Toxicity - Repeated Exposure Category 2, Hazardous to the Aquatic Environment Long-Term 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 (oral), 6.3A, 6.4A, 6.7B, 6.8B, 6.9B, 9.1C	

Label elements

Hazard pictogram(s)







Signal word

Warning

Hazard statement(s)

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H351	Suspected of causing cancer.

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H361	Suspected of damaging fertility or the unborn child.		
H373	May cause damage to organs through prolonged or repeated exposure. (Oral, Dermal, Inhalation)		
H412	Harmful to aquatic life with long lasting effects.		
Precautionary statement(s) Prevention			
P201	Obtain special instructions before use.		
P210	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.		
P233	33 Keep container tightly closed.		
P260	Do not breathe mist/vapours/spray.		
P280	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.		

Precautionary statement(s) Response

P243

P264

P270

P273

Take action to prevent static discharges.

Avoid release to the environment.

Wash all exposed external body areas thoroughly after handling.

Do not eat, drink or smoke when using this product.

P308+P313	P308+P313 IF exposed or concerned: Get medical advice/ attention.		
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	37+P313 If eye irritation persists: Get medical advice/attention.		
P301+P312	P312 IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider if you feel unwell.		
P302+P352	52 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].		
P330 Rinse mouth.			
P332+P313 If skin irritation occurs: Get medical advice/attention.			
P362+P364	P362+P364 Take off contaminated clothing and wash it before reuse.		

Precautionary statement(s) Storage

1 residutionary statement(s) eterage		
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
91-20-3	0.1-1	<u>naphthalene, molten</u>
1330-20-7	40-80	<u>xylene</u>
100-41-4	10-20	<u>ethylbenzene</u>
64742-95-6	1-10	naphtha petroleum, light aromatic solvent
64742-94-5	1-10	solvent naphtha petroleum, heavy aromatic
Legend:	Legend: 1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - AVI; 4. Classification drawn from C&L * 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 seek medical attention. 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.	

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Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation. If aerosols, fumes, or combustion products are inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms develop seek medical attention. If swallowed do NOT induce vomiting. If yomiting 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. If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 Firefighting measures

Extinguishing media

▶ Foam.

Special hazards arising from the substrate or mixture

Fire Incompatibility	Avoid contamination with oxidising agents
Advice for firefighters	
Fire Fighting	▶ 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	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

Conditions for safe storage, including any incompatibilities

Suitable container Packing as supplied by manufacturer.

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Storage incompatibility

strong oxidisers

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)	naphthalene, molten	Naphthalene	0.5 ppm / 2.6 mg/m3	10 mg/m3 / 2 ppm	Not Available	carcinogen category 2 - Suspected human carcinogen (skin) - Skin absorption
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	20 ppm / 88 mg/m3	176 mg/m3 / 40 ppm	Not Available	(skin) - Skin absorption oto - Ototoxin

Emergency Limits

Ingredient	TEEL-1	TEEL-2	TEEL-3
naphthalene, molten	15 ppm	83 ppm	500 ppm
xylene	Not Available	Not Available	Not Available
ethylbenzene	Not Available	Not Available	Not Available
naphtha petroleum, light aromatic solvent	1,200 mg/m3	6,700 mg/m3	40,000 mg/m3

Ingredient	Original IDLH	Revised IDLH
naphthalene, molten	250 ppm	Not Available
xylene	900 ppm	Not Available
ethylbenzene	800 ppm	Not Available
naphtha petroleum, light aromatic solvent	Not Available	Not Available
solvent naphtha petroleum, heavy aromatic	Not Available	Not Available

Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit	
naphtha petroleum, light aromatic solvent	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.

WARNING: This substance is classified by the NOHSC as Category 2 Probable Human Carcinogen

for naphthalene:

Odour Threshold Value: 0.038 ppm

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

These exposure guidelines have been derived from a screening level of risk assessment and should not be construed as unequivocally safe limits.

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 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 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

CARE: Use of a quantity of this material in confined space or poorly ventilated area, where rapid build up of concentrated atmosphere may occur, could require increased ventilation and/or protective gear

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard.

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Individual protection measures, such as personal protective equipment	
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 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	Clear colourless liquid			
Physical state	Liquid	Relative density (Water = 1)	0.88	
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 (°C)	Not Available	
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available	
Initial boiling point and boiling range (°C)	>140	Molecular weight (g/mol)	Not Available	
Flash point (°C)	24	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)	>99	
Vapour pressure (kPa)	Not Available	Gas group	Not Available	
Solubility in water	Immiscible	pH as a solution (1%)	Not Available	
Vapour density (Air = 1)	Not Available	VOC g/L	880	

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

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SECTION 11 Toxicological information

Information on toxicological ef	fects				
Inhaled	Inhalation hazard is increased at higher temperatures. Inhalation of vapours may cause drowsiness and dizziness. 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				
	Headache, fatigue, lassitude, irritability and gastrointe symptoms of material overexposure.	estinal disturbar	nces (e.g., nausea, anorexia and	flatulence) are the most common	
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. 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 The liquid may produce considerable gastrointestinal discomfort and may be harmful or toxic if swallowed.				
Skin Contact	Skin contact with the material may be harmful; system Open cuts, abraded or irritated skin should not be exp. Entry into the blood-stream through, for example, cuts effects. The material produces moderate skin irritation; evider produces moderate inflammation of the skin in a sproduces significant, but moderate, inflammation inflammation being present twenty-four hours or respectively.	posed to this ma s, abrasions, pu nce exists, or pr substantial num when applied to	aterial incture wounds or lesions, may practical experience predicts, that there of individuals following direct to the healthy intact skin of anima	the material either t contact, and/or	
Еуе	Exposure to naphthalene and its congeners has productive Evidence exists, or practical experience predicts, that and/or may produce significant ocular lesions which a animals. The liquid produces a high level of eye discomfort and	the material	ay cause severe eye irritation in nty-four hours or more after instil	lation into the eye(s) of experimental	
Chronic	On the basis, primarily, of animal experiments, concern has been expressed that the material may produce carcinogenic or mutagenic effects; in respect of the available information, however, there presently exists inadequate data for making a satisfactory assessment. Exposure to the material may cause concerns for human fertility, generally on the basis that results in animal studies provide sufficient evidence to cause a strong suspicion of impaired fertility in the absence of toxic effects, or evidence of impaired fertility occurring at around the same dose levels as other toxic effects, but which are not a secondary non-specific consequence of other toxic effects. Prolonged or repeated contact with xylenes may cause defatting dermatitis with drying and cracking.				
	TOVICITY		IDDITATION		
RESENE MARINE SHIELD ULTRAPREP	TOXICITY Not Available		IRRITATION Not Available		
				IRRITATION	
ULTRAPREP	Not Available			IRRITATION Not Available	
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ULTRAPREP	Not Available TOXICITY dermal (rat) LD50: >2500 mg/kg ^[2] Inhalation (Rat) LC50: >0.4 mg/l4h ^[1]				
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RES

Inhalation (Rat) LC50: >4.42 mg/L4h $^{[1]}$

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Skin: adverse effect observed (irritating) $^{[1]}$

Solvent naphtha petroleum, heavy aromatic Dermit (rabbit) LOSO -2000 mg/kg ⁽²⁾ Eye (rabbit) Intrating [PETROFIN]		Oral (Rat) LD50: >4500 mg/kg ^[1]				
Demail (rabbil) U.500 - 2000 mg/kg ¹⁷ Eye (rabbit) timitating (PETROFIN) inhalation (Rat) L.500 - 2000 mg/kg ¹¹ Eye, no advorce effect observed (initiating) ^{1/1} Legend: 1. Value obtained from Empte ECHA Registered Substances - Acute Textocity 2. Value obtained from manufacturer's SDS. Unless americal particularly and the process of the process						
Inhalation (Rat) LCS: >0.003 mg/Lnf ¹¹ Eye: no adverse effect observed (not imitating) ¹¹			IRRITATION			
Trimitation Trial 1.00 2.000 mg/kg 1 1.1 2.000 mg/kg 1 1.1 2.000 mg/kg 1 2.000 mg/kg 1 3.000 mg/kg 3.000 m		Dermal (rabbit) LD50: >2000 mg/kg ^[2]	Eye (rabbit): Irritating [l	PETROFIN]		
Legend: 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturar's SDS. Unless otherwise specified date extracted from RTECS - Register of Toxic Effect of chemical Substances RESENE MARINE SHELD ULTRAPREP NAPHTHALENE, MOLTEN The material may be initiating to the eye, with protonged contact causing inflammation. Reproductive effector in rats NT Lene The material may be initiating to the eye, with protonged contact causing inflammation. Reproductive effector in rats NT Lene The material may be initiating to the eye, with protonged contact causing inflammation. Reproductive effector in rats NT Lene The material may be initiating to the eye, with protonged contact causing inflammation. Reproductive effector in rats NT Lene The material may be initiating to the eye, with protonged contact causing inflammation. Reproductive effector in rats NT Lene The material may be initiating to the eye, with protonged contact causing inflammation. Reproductive effector in rats NT Lene Licen changes, utheral tract, effects on fertility, feelotoxicity, specific developmental abnormalities (musculoskeletal system) recorded. NT Substance has been shown to be mutageneric in all least one easily, or biomags to a family of chemicals producting damage or change to cellular DNA. WARNING: This substance has been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans. Lighton Admitted Substance has been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans. Lighton Admitted Substance and the least one easily of the initiation routes of composition of the least one easily of the initiation routes of the initiation rout	heavy aromatic	Inhalation (Rat) LC50: >0.003 mg/L4h ^[1]	Eye: no adverse effect	observed (not irritating) ^[1]		
RESENE MARINE SHELD ULTRAPREP NAPHTHALENE, MOLTEN The material may be irritating to the eye, with protonged contact causing inflammation. Reproductive effects or in rate AVLENE The material may be irritating to the eye, with protonged contact causing inflammation. Reproductive effects or in rate NOT classifiable as to its carcinogenicity to humans. ETHYLBENZENE ETHYLBENZENE The material rang be irritating to the eye, with protonged contact causing inflammation. Reproductive effects or in rate NOT classifiable as to its carcinogenicity to humans. ETHYLBENZENE Liver changes, utheral tract, effects on fertility, footbooksity, specific developmental abnormalities (musculoskeletal system) recorded. NOT: Substance has been shown to be mutalgenic in at least one easy, or belongs to a family of chemicals producing damage or change to cellular DNA. WARNING: This substance has been classified by the IARC as Group 2B. Possibly Carcinogenic to Humans. **IDevoe!** To Devoe!** For C3 aromatics (typically trimethylbenzenes - TMBs) Autile Toxicity Acute Toxicity Acute Toxicity Acute Toxicity Acute Toxicity Acute Toxicity Ashma-like symptoms may continue for months or even years after exposure to the material ends. Ashma-like symptoms may continue for months or even years after exposure to the material ends. Ashma-like symptoms may continue for months or even years after exposure to the material ends. Ashma-like symptoms may continue for months or even years after exposure to the material ends. Ashma-like symptoms may continue for months or even years after exposure to the material ends. Ashma-like symptoms may continue for months or even years after exposure to the material ends. Ashma-like symptoms may continue for months or even years after exposure to the material ends. Ashma-like symptoms may continue for months or even years after exposure to the material ends. Ashma-like symptoms may continue for months or even years after exposure to the material ends. Ashma-like symptoms may continue f		Oral (Rat) LD50: >2000 mg/kg ^[1]	Skin: adverse effect ob	served (irritating) ^[1]		
NAPHTHALENE, MOLTEN A NAPHTHALENE, MOLTEN A The material may be initiating to the eye, with prolonged contact causing inflammation. Reproductive effector in rats The substance is classified by IARC as Group 3: Evidence of carcinogenicity may be inadequate or limited in animal testing. EVIDENCE of carcinogenicity may be inadequate or limited in animal testing. EVIDENCE of carcinogenicity may be inadequate or limited in animal testing. EVIDENCE of carcinogenicity may be inadequate or limited in animal testing. EVIDENCE of carcinogenicity may be inadequate or limited in animal testing. EVIDENCE of carcinogenicity may be inadequate or limited in animal testing. EVIDENCE of carcinogenicity may be inadequate or limited in animal testing. WARNING: This substance has been shown to be mutagenic in at least one assay, or belongs to a family of chemicals producing damage or change to cellular DNA. WARNING: This substance has been classified by the IARC as Group 28: Possibly Carcinogenic to Humans. **IDDICATED CARCINOGENIC ACTUAL TRANSPORT OF CORDINARY OF CARCINOGENIC ACTUAL TRANSPORT OF CARCINOGENIC ACT	Legend:			btained from manufacturer's SDS. Unless otherwise		
NAPHTHALENE, MOLTEN A NAPHTHALENE, MOLTEN A The material may be initiating to the eye, with prolonged contact causing inflammation. Reproductive effector in rats The substance is classified by IARC as Group 3: Evidence of carcinogenicity may be inadequate or limited in animal testing. EVIDENCE of carcinogenicity may be inadequate or limited in animal testing. EVIDENCE of carcinogenicity may be inadequate or limited in animal testing. EVIDENCE of carcinogenicity may be inadequate or limited in animal testing. EVIDENCE of carcinogenicity may be inadequate or limited in animal testing. EVIDENCE of carcinogenicity may be inadequate or limited in animal testing. EVIDENCE of carcinogenicity may be inadequate or limited in animal testing. WARNING: This substance has been shown to be mutagenic in at least one assay, or belongs to a family of chemicals producing damage or change to cellular DNA. WARNING: This substance has been classified by the IARC as Group 28: Possibly Carcinogenic to Humans. **IDDICATED CARCINOGENIC ACTUAL TRANSPORT OF CORDINARY OF CARCINOGENIC ACTUAL TRANSPORT OF CARCINOGENIC ACT						
Reproductive effector in rats The substance is classified by IARC as Group 3: MOT classifiate as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate of limited in animal testing. Liver changes, whereal tract, effects of refility, feototoxicity, specific developmental abnormalities (musculoskeletal system) recorded. NOTE: Substance has been shown to be mutagenic in at least one assay, or belongs to a family of chemicals producing damage or change to cellular DNA. WARNING: This substance has been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans. **[Devoe].** For CS aromatics (typically trimethylbenzenes - TMBs) Acute toxicity toxicity Acute toxicity studies (oral, dermal and inhalation routes of exposure) have been conducted in rats using various solvent products containing predominantly mixed C9 aromatic hydrocarbons (CAS RN 64742-95-6). SOLVENT NAPHTHA PETROLEUM, HEAVY AROMATIC SOLVENT NAPHTHA PETROLEUM, HEAVY AROMATIC RESENE MARINE SHIELD ULTRAPREP A NAPHTHA PETROLEUM, LICHT AROMATIC SOLVENT RESENE MARINE SHIELD ULTRAPREP A NAPHTHA PETROLEUM, LICHT AROMATIC SOLVENT RESENE MARINE SHIELD ULTRAPREP A PETROLEUM, LICHT AROMATIC SOLVENT RESENE MARINE SHIELD ULTRAPREP A ETHYLBENZENE NAPHTHALENE, MOLTEN A Absorption of 1,2,4-trimethylbenzene occurs after oral, inhalation, or dermal exposure. **For trimethylbenzenes** For trimethylbenzenes** NAPHTHALENE, MOLTEN A XYLENE & ETHYLBENZENE **The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). The material may cause skin irritation for the eye causing pronounced inflammation. **Acute Toxicity** **Solution** **Carcinogenicity** **Productivity** **Solution** **The material may produ		Data demonstrate that during inhalation exposure,ar	omatic hydrocarbons undergo subst	antial partitioning into adipose tissues.		
The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity for humans. Evidence of carcinogenicity may be inadequate or limited in animal testing. Liver changes, utheral tract, effects on fertility, foetotoxicity, specific developmental abnormalities (musculoskeletal system) recorded. NOTE: Substance has been shown to be mutagenic in at least one assay, or belongs to a family of chemicals producing damage or change to cellular DNA. WARNING: This substance has been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans. **Tolevoe!** Tolevoe!** Tolevoe!** For C9 aromatics (typically trimethylbenzenes - TMBs) Acute Toxicity Acute Toxici	NAPHTHALENE, MOLTEN	The material may be irritating to the eye, with prolon	ged contact causing inflammation.			
RETHYLBENZENE NOTE: Substance has been shown to be mutagenic in at least one assay, or belongs to a family of chemicals producing damage or change to cellular DNA. WARNING: This substance has been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans. * [Devoe]. For Ge aromatics (typically trimethylbenzenes - TMBs) Acute Toxicity Acute toxicity studies (oral, dermal and inhalation routes of exposure) have been conducted in rats using various solvent products containing predominantly mixed G9 aromatic hydrocarbons (CAS RN 64742-95-6). **SOLVENT NAPHTHA PETROLEUM, HEAVY AROMATIC **PETROLEUM, HEAVY AROMATIC **RESENE MARINE SHIELD ULTRAPREP & NAPHTHALENE, MOLTEN & Asthma-like symptoms may continue for months or even years after exposure to the material ends. **ASHIPHA PETROLEUM, LIGHT AROMATIC SOLVENT RESENE MARINE SHIELD ULTRAPREP & NAPHTHAP FETROLEUM, LIGHT AROMATIC SOLVENT RESENE MARINE SHIELD ULTRAPREP & NAPHTHAP FETROLEUM, LIGHT AROMATIC SOLVENT RESENE MARINE SHIELD ULTRAPREP & NAPHTHAP FETROLEUM, LIGHT AROMATIC SOLVENT RESENE MARINE SHIELD ULTRAPREP & NAPHTHAP FETROLEUM, LIGHT AROMATIC SOLVENT AROMATIC SOLVENT **Absorption of 1,2,4-trimethylbenzene occurs after oral, inhalation, or dermal exposure. Absorption of 1,2,4-trimethylbenzene occurs after oral, inhalation, or dermal exposures, distributed throughout the body, and excreted primarily through urine. **The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). **XYLENE & ETHYLBENZENE** The material may produce severe irritation to the eye causing pronounced inflammation. **Acute Toxicity** **Serious Eye Damage/firitation** **Reproductivity** **Serious Eye Damage/firitation** **Respiratory or Skin sensitisation** **Respiratory o	XYLENE	The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans.				
** [Devoe]. ** For C9 aromatics (typically trimethylbenzenes - TMBs) ** Acute Toxicity ** Acute Toxici	ETHYLBENZENE	NOTE: Substance has been shown to be mutagenic to cellular DNA.	NOTE: Substance has been shown to be mutagenic in at least one assay, or belongs to a family of chemicals producing damage or change			
NAPHTHA PETROLEUM, LIGHT AROMATIC SOLVENT Acute toxicity studies (oral, dermal and inhalation routes of exposure) have been conducted in rats using various solvent products containing predominantly mixed O3 aromatic hydrocarbons (CAS RN 64742-95-6). SOLVENT NAPHTHA PETROLEUM, HEAVY AROMATIC RESENE MARINE SHIELD ULTRAPREP & NAPHTHA PETROLEUM, LIGHT AROMATIC SOLVENT RESENE MARINE SHIELD ULTRAPREP & NAPHTHA PETROLEUM, LIGHT AROMATIC SOLVENT RESENE MARINE SHIELD ULTRAPREP & ABSORPHIA PETROLEUM, LIGHT AROMATIC SOLVENT RESENE MARINE SHIELD ULTRAPREP & ABSORPHIA PETROLEUM, LIGHT AROMATIC SOLVENT RESENE MARINE SHIELD ULTRAPREP & ABSORPHIA PETROLEUM, LIGHT AROMATIC SOLVENT RESENE MARINE SHIELD ULTRAPREP & ABSORPHIA PETROLEUM, LIGHT AROMATIC SOLVENT RESENE MARINE SHIELD ULTRAPREP & ABSORPHIA PETROLEUM, LIGHT AROMATIC SOLVENT RESENE MARINE SHIELD ULTRAPREP & LIGHT SOLVENT AND PHALENE, MOLTEN & XIVENER & Ethylbenzene is readily absorbed following inhalation, oral, and dermal exposures, distributed throughout the body, and excreted primarily through urine. NAPHTHALENE, MOLTEN & XIVENER & ETHYLBENZENE The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermalitis (nonallergic). XYLENE & ETHYLBENZENE The material may produce severe irritation to the eye causing pronounced inflammation. Respiratory or Skin Skin Irritation/Corrosion Respiratory or Skin Skin Irritation Acute Toxicity Serious Eye Damage/irritation Respiratory or Skin Skin Irritation Acute Toxicity STOT - Single Exposure **STOT - Single Exposure** **STOT - Repeated Exposure** **STOT - Repeated Exposure**		·	ne IARC as Group 28: Possibly Card	cinogenic to Humans.		
PETROLEUM, HEAVY AROMATIC RESENE MARINE SHIELD ULTRAPREP & NAPHTHALENE, MOLTEN & NAPHTHALENE, MOLTEN & PETROLEUM, LIGHT AROMATIC SOLVENT RESENE MARINE SHIELD ULTRAPREP & NAPHTHA PETROLEUM, LIGHT AROMATIC SOLVENT RESENE MARINE SHIELD ULTRAPREP & NAPHTHA PETROLEUM, LIGHT AROMATIC SOLVENT RESENE MARINE SHIELD ULTRAPREP & NAPHTHA PETROLEUM, LIGHT AROMATIC SOLVENT RESENE MARINE SHIELD ULTRAPREP & SUPPLIES & LIGHT AROMATIC SOLVENT RESENE MARINE SHIELD ULTRAPREP & SUPPLIES & LIGHT AROMATIC SOLVENT RESENE MARINE SHIELD ULTRAPREP & THIME SHIE	•	For C9 aromatics (typically trimethylbenzenes - TMBs) Acute Toxicity Acute toxicity studies (oral, dermal and inhalation routes of exposure) have been conducted in rats using various solvent products containing				
NAPHTHALENE, MOLTER & NAPHTHA PETROLEUM, LIGHT AROMATIC SOLVENT RESENE MARINE SHIELD ULTRAPREP & NAPHTHA PETROLEUM, LIGHT AROMATIC SOLVENT RESENE MARINE SHIELD ULTRAPREP & NAPHTHA PETROLEUM, LIGHT AROMATIC SOLVENT RESENE MARINE SHIELD ULTRAPREP & Ethylbenzene is readily absorbed following inhalation, or dermal exposure. RESENE MARINE SHIELD ULTRAPREP & ETHYLBENZENE NAPHTHALENE, MOLTEN & The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). XYLENE & ETHYLBENZENE The material may produce severe irritation to the eye causing pronounced inflammation. Acute Toxicity Serious Eye Damage/Irritation Respiratory or Skin sensitisation **STOT - Repeated Exposure** **TOT - Repeated E	PETROLEUM, HEAVY	n-paraffins is inversely proportional to the carbon chain length,with little absorption above C30. For petroleum: This product contains benzene, which can cause acute myeloid leukaemia, and n-hexane, which can be metabolized to				
ULTRAPREP & NAPHTHA PETROLEUM, LIGHT AROMATIC SOLVENT RESENE MARINE SHIELD ULTRAPREP & ETHYLBENZENE NAPHTHALENE, MOLTEN & XYLENE & ETHYLBENZENE The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). XYLENE & ETHYLBENZENE The material may produce severe irritation to the eye causing pronounced inflammation. Acute Toxicity Serious Eye Damage/Irritation Respiratory or Skin sensitisation For trimethylbenzene: Absorption of 1,2,4-trimethylbenzene occurs after oral, inhalation, or dermal exposure. Ethylbenzene is readily absorbed following inhalation, oral, and dermal exposures, distributed throughout the body, and excreted primarily through urine. The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). Carcinogenicity Serious Eye Damage/Irritation Respiratory or Skin sensitisation	ULTRAPREP & NAPHTHALENE, MOLTEN & NAPHTHA PETROLEUM,	Asthma-like symptoms may continue for months or even years after exposure to the material ends.				
ULTRAPREP & ETHYLBENZENE NAPHTHALENE, MOLTEN & XYLENE & ETHYLBENZENE The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). XYLENE & ETHYLBENZENE The material may produce severe irritation to the eye causing pronounced inflammation. Acute Toxicity Skin Irritation/Corrosion Reproductivity Serious Eye Damage/Irritation Respiratory or Skin sensitisation XYLENE & ETHYLBENZENE The material may produce severe irritation to the eye causing pronounced inflammation. **STOT - Single Exposure** **STOT - Repeated Exposure** *	ULTRAPREP & NAPHTHA PETROLEUM, LIGHT	·				
XYLENE & ETHYLBENZENE The material may produce severe irritation to the eye causing pronounced inflammation. Acute Toxicity Skin Irritation/Corrosion Serious Eye Damage/Irritation Respiratory or Skin sensitisation The material may produce severe irritation to the eye causing pronounced inflammation. Carcinogenicity Reproductivity STOT - Single Exposure STOT - Repeated Exposure	ULTRAPREP &					
Acute Toxicity Skin Irritation/Corrosion Serious Eye Damage/Irritation Respiratory or Skin sensitisation STOT - Repeated Exposure STOT - Repeated Exposure		The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic).				
Skin Irritation/Corrosion Serious Eye Damage/Irritation Respiratory or Skin sensitisation Skin Irritation/Corrosion Reproductivity STOT - Single Exposure X STOT - Repeated Exposure	XYLENE & ETHYLBENZENE	The material may produce severe irritation to the eye causing pronounced inflammation.				
Serious Eye Damage/Irritation Respiratory or Skin sensitisation STOT - Single Exposure X STOT - Repeated Exposure	Acute Toxicity	~	Carcinogenicity	~		
Damage/Irritation Respiratory or Skin sensitisation Respiratory or Skin sensitisation	Skin Irritation/Corrosion	~	Reproductivity	✓		
sensitisation S101 - Repeated Exposure		~	STOT - Single Exposure	×		
Mutagenicity X Aspiration Hazard X		×	STOT - Repeated Exposure	•		
	Mutagenicity	×	Aspiration Hazard	×		

Legend:

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

SECTION 12 Ecological information

Toxicity

RESENE MARINE SHIELD	Endpoint	Test Duration (hr)	Test Duration (hr)		Species Value		Source	
ULTRAPREP	Not Available	Not Available		Not Available	Not Available		Not Available	
naphthalene, molten								
	Endpoint	Test Duration (hr)	Speci	es		Value		Source
	BCF	1344h	Fish			23-146		7

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,	

EC50 72h Algae or other aquatic plants 2.4-9.8mg/L 4		EC50(ECx)	0.05h	С	rustacea	<0	.001mg/L	4
LC50 96h Fish 0.213mg/L 4		EC50	72h	Α	lgae or other aquatic plants	ca	.0.4mg/L	1
Endpoint Test Duration (hr) Species Value Source		EC50	48h	С	rustacea	1.0)9-3.4mg/l	4
LC50 96h Fish 2.6mg/l 2		LC50	96h	F	ish	0.2	213mg/L	4
LC50 96h Fish 2.6mg/l 2		For the start	Total Bounding (but)		0		V-I	0
EC50 72h Algae or other aquatic plants 4.6mg/l 2		-						
EC50								
NOEC(ECx) 73h Algae or other aquatic plants 0.44mg/l 2	xylene			72h			+ -	
Endpoint Test Duration (hr) Species Value Sot			-		-			
EC50 72h Algae or other aquatic plants 2.4-9.8mg/L 4		NOEC(ECx)	73h		Algae or other aquatic plants		0.44mg/l	2
EC50 72h Algae or other aquatic plants 2.4-9.8mg/L 4								
LC50 96h Fish 3.381-4.075mg/L 4		Endpoint	Test Duration (hr)	Spe	cies	Value		Sour
EC50		EC50	72h	Alga	e or other aquatic plants	2.4-9.8	mg/L	4
EC50	ethylbenzene	LC50	96h	Fish		3.381-4	.075mg/L	4
EC50 96h Algae or other aquatic plants 1.7-7.6mg/L 4		EC50	48h Crus		stacea 1.37-4.		4mg/l	4
Endpoint Test Duration (hr) Species Value Source		EC50(ECx)	24h	24h Alga		ae or other aquatic plants 0.02-93		4
NOEC(ECx) 72h Algae or other aquatic plants 1mg/l 1 EC50 72h Algae or other aquatic plants 19mg/l 1 EC50 96h Algae or other aquatic plants 64mg/l 2 EC50 48h Crustacea 6.14mg/l 1 Image: Company of the problem of the part of the		EC50	96h	96h Algae or other aquatic plants		1.7-7.6	1.7-7.6mg/L	
NOEC(ECx) 72h Algae or other aquatic plants 1mg/l 1								
EC50 72h Algae or other aquatic plants 19mg/l 1		Endpoint	Test Duration (hr)		Species		Value	Source
EC50		NOEC(ECx)	72h		Algae or other aquatic plants		1mg/l	1
EC50 96h Algae or other aquatic plants 64mg/l 2		EC50	72h		Algae or other aquatic plants		19mg/l	1
Endpoint Test Duration (hr) Species Value Source	uromano corrent	EC50	96h		Algae or other aquatic plants		64mg/l	2
LC50 96h Fish 2-5mg/l Not Available		EC50	48h		Crustacea		6.14mg/l	1
LC50 96h Fish 2-5mg/l Not Available								
EC50(ECx)		Endpoint	Test Duration (hr)	Sp	ecies	Valu	ie	Source
heavy aromatic EC50 72h Algae or other aquatic plants <1mg/l 1 EC50 96h Algae or other aquatic plants 11.7mg/l 2		LC50	96h	Fis	sh	2-5n	ng/l	Not Available
EC50 96h Algae or other aquatic plants 11.7mg/l 2	solvent naphtha petroleum,	EC50(ECx)	48h	Cr	rustacea		mg/l	1
	heavy aromatic	EC50	72h	Alg	gae or other aquatic plants	<1m	g/l	1
EC50 48h Crustacea 0.95mg/l 1		EC50	96h	Alg	lgae or other aquatic plants		mg/l	2
		EC50	48h	Cr	ustacea	0.95	mg/l	1
Legend: Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 4								

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.

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.

For Aromatic Substances Series:

Environmental Fate: Large, molecularly complex polycyclic aromatic hydrocarbons, or PAHs, are persistent in the environment longer than smaller PAHs.

For C9 aromatics (typically trimethylbenzene - TMBs)

Chemicals in this category possess properties indicating a hazard for the environment (acute toxicity for fish, invertebrates, and algae from 1 to 10 mg/L).

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.

for naphthalene:

Environmental fate:

Naphthalene released to the atmosphere may be transported to surface water and/or soil by wet or dry deposition.

For ethylbenzene: log Kow, 3.15 log Koc: 1.98-3.04 Koc: 164 log Kom: 1.73-3.23

Vapour Pressure, 1270 Pa (1.27 kPa)

Half-life (hr) air : 0.24-85.6

Half-life (hr) H2O surface water : 5-240 Half-life (hr) H2O ground : 144-5472 Half-life (hr) soil : 72-240 Henry's Pa m3 /mol: 748-887 Henry's atm m3 /mol: 8.44E-03

ThOD: 3.17 BCF: 3.15-146 log BCF: 1.19-2.67

Environmental fate:Ethylbenzene partitions to air from water and soil, and is degraded in air.

Continued...

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DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
naphthalene, molten	HIGH (Half-life = 258 days)	LOW (Half-life = 1.23 days)
xylene	HIGH (Half-life = 360 days)	LOW (Half-life = 1.83 days)
ethylbenzene	HIGH (Half-life = 228 days)	LOW (Half-life = 3.57 days)

Bioaccumulative potential

Ingredient	Bioaccumulation
naphthalene, molten	HIGH (BCF = 18000)
xylene	MEDIUM (BCF = 740)
ethylbenzene	LOW (BCF = 79.43)
solvent naphtha petroleum, heavy aromatic	LOW (BCF = 159)

Mobility in soil

Ingredient	Mobility
naphthalene, molten	LOW (Log KOC = 1837)
ethylbenzene	LOW (Log KOC = 517.8)

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.

Consult manufacturer for recycling option.

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	NO
HAZCHEM	•3Y

Land transport (UN)

14.1. UN number or ID number	1263				
14.2. UN proper shipping name		PAINT RELATED MATERIAL (including paint thinning or reducing compound); PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base)			
14.3. Transport hazard class(es)	Class Subsidiary Hazard	3 Not Applicable			
14.4. Packing group	Ш				
14.5. Environmental hazard	Not Applicable				
	Special provisions	163; 223; 367			

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	pecial precautions for ser	Limited quantity 5 L			
ir trans	sport (ICAO-IATA / DGF	R)			
14.1. U	IN number	1263			
	IN proper shipping ame	Paint related material (including pa polish, liquid filler and liquid lacque		ounds); Paint (including paint	t, lacquer, enamel, stain, shellac, varnish,
		ICAO/IATA Class	3		
	ransport hazard lass(es)	ICAO / IATA Subsidiary Hazard	Not Applicable		
0.	oiuss(cs)	ERG Code	3L		
14.4. Pa	acking group	III			
14.5. E	nvironmental hazard	Not Applicable			
		Special provisions		A3 A72 A192	
		Cargo Only Packing Instructions		366	
		Cargo Only Maximum Qty / Pack		220 L	
14.6. Special precaution user	•	Passenger and Cargo Packing Instructions		355	
<u> </u>		Passenger and Cargo Maximum Qty / Pack		60 L	
		Passenger and Cargo Limited Quantity Packing Instructions		Y344	
		Passenger and Cargo Limited Ma	aximum Qty / Pack	10 L	

Sea transport (IMDG-Code / GGVSee)

14.1. UN number	1263			
14.2. UN proper shipping name	PAINT RELATED MATERIAL (including paint thinning or reducing compound); PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base)			
14.3. Transport hazard class(es)	IMDG Class IMDG Subsidiary Ha	zard Not Applicable		
14.4. Packing group	Ш			
14.5 Environmental hazard	Not Applicable			
14.6. Special precautions for user	EMS Number Special provisions Limited Quantities	F-E , S-E 163 223 367 955 5 L		

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

Not Applicable

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

Product name	Group
naphthalene, molten	Not Available
xylene	Not Available
ethylbenzene	Not Available
naphtha petroleum, light aromatic solvent	Not Available
solvent naphtha petroleum, heavy aromatic	Not Available

14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
naphthalene, molten	Not Available
xylene	Not Available
ethylbenzene	Not Available
naphtha petroleum, light aromatic solvent	Not Available
solvent naphtha petroleum, heavy aromatic	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

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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.

naphthalene, molten 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

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

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 Land Transport Rule: Dangerous Goods 2005 - Schedule 4 Quantity Limits for Dangerous Goods in Excepted Quantities

New Zealand Land Transport Rule; Dangerous Goods 2005 - Schedule 2 Dangerous Goods in Limited Quantities and Consumer Commodities

New Zealand Workplace Exposure Standards (WES)

xylene is found on the following regulatory lists

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic

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)

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)

naphtha petroleum, light aromatic solvent 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 - Not Classified as Carcinogenic

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

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Land Transport Rule; Dangerous Goods 2005 - Schedule 2 Dangerous Goods in Limited Quantities and Consumer Commodities

solvent naphtha petroleum, heavy aromatic is found on the following regulatory lists

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Land Transport Rule: Dangerous Goods 2005 - Schedule 1 Quantity limits for dangerous goods

Additional Regulatory Information

Not Applicable

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

Tracking Requirements

Not Applicable

National Inventory Status

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National Inventory Status Australia - AIIC / Australia Non-Yes Industrial Use Canada - DSL Yes Canada - NDSL No (naphthalene, molten; xylene; ethylbenzene; naphtha petroleum, light aromatic solvent; solvent naphtha petroleum, heavy aromatic) China - IECSC Yes Europe - EINEC / ELINCS / Yes NLP Japan - ENCS Yes Korea - KECI Yes New Zealand - NZIoC Yes Philippines - PICCS Yes USA - TSCA Yes Taiwan - TCSI Yes Mexico - INSQ Yes Vietnam - NCI Yes

SECTION 16 Other information

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No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

SDS Version Summary

Russia - FBEPH

Legend:

Version	Date of Update	Sections Updated
1.2	15/04/2024	Toxicological information - Acute Health (eye), Toxicological information - Acute Health (inhaled), Toxicological information - Acute Health (skin), Toxicological information - Chronic Health, Hazards identification - Classification, Ecological Information - Environmental, Exposure controls / personal protection - Exposure Standard, First Aid measures - First Aid (inhaled), Exposure controls / personal protection - Personal Protection (Respirator), Identification of the substance / mixture and of the company / undertaking - Supplier Information, Identification of the substance / mixture and of the company / undertaking - Use

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

Yes

Yes = All CAS declared ingredients are on the inventory

- ▶ 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
- ▶ DNEL: Derived No-Effect Level
- ▶ PNEC: Predicted no-effect concentration
- 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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