RESENE ARMOURX 503 UVS CLEAR HARDENER

Resene Paints LTD

Version No: 1.2

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

Issue Date: **12/06/2023** Print Date: **12/06/2023** L.GHS.NZL.EN

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

Product Identifier	
Product name	RESENE ARMOURX 503 UVS CLEAR HARDENER
Synonyms	Not Available
Proper shipping name	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)
Other means of identification	Not Available

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

Relevant identified u	ses	11273

Details of the manufacturer or supplier of the safety data sheet

,,,,,		
Registered company name	Resene Paints LTD	
Address	32-50 Vogel Street Wellington 5011 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 7days)	CHEMWATCH EMERGENCY RESPONSE (24/7)
Emergency telephone numbers	0800 764766	+64 800 700 112
Other emergency telephone numbers	Not Available	+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, Specific Target Organ Toxicity - Single Exposure (Narcotic Effects) Category 3, Serious Eye Damage/Eye Irritation Category 2, Sensitisation (Skin) Category 1	
Legend:	1. Classified by Chernwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI	
Determined by Chemwatch using GHS/HSNO criteria	3.1C, 6.4A, 6.5B (contact), 6.9B (narcotic effects)	

Label elements

Hazard pictogram(s)





Signal word Warnin

Hazard statement(s)

H226	Flammable liquid and vapour.	
H336	May cause drowsiness or dizziness.	
H319	Causes serious eye irritation.	
H317	May cause an allergic skin reaction.	

Precautionary statement(s) Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P271	Use only outdoors or in a well-ventilated area.

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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.
P261	Avoid breathing mist/vapours/spray.
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	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	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P312	P312 Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.	
P333+P313	-P313 If skin irritation or rash occurs: Get medical advice/attention.	
P337+P313	P337+P313 If eye irritation persists: Get medical advice/attention.	
P362+P364	Take off contaminated clothing and wash it before reuse.	
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].	
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.		

Precautionary statement(s) Storage

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

Precautionary statement(s) Disposal

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

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
2530-83-8	5-15	gamma-glycidoxypropyltrimethoxysilane
123-86-4	20-40	n-butyl acetate
141-32-2	<0.5	<u>butyl acrylate</u>
Legend:	Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 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: Immediately hold eyelids apart and flush the eye continuously with 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. Continue flushing for at least 15 minutes. Transport to hospital or doctor without delay in event of irritation. 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 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. If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus. 	

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Indication of any immediate medical attention and special treatment needed

Treat symptomatically

SECTION 5 Firefighting measures

Extinguishing media

Alcohol stable foam.

Special hazards arising from the substrate or mixture

Fire Incompatibility	Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

Advice for firefighters		
Fire Fighting	▶ Alert Fire Brigade and tell them location and nature of hazard.	
Fire/Explosion Hazard	Liquid and vapour are flammable. Combustion products include: carbon monoxide (CO) carbon dioxide (CO2) formaldehyde silicon dioxide (SiO2) other pyrolysis products typical of burning organic material.	

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	Remove all ignition sources. Contain spill with inert non- combustible absorbent then place in suitable, labelled container for waste disposal. Wipe up. Clean area with large quantity of water to complete clean- up.
Major Spills	Remove all ignition sources. Clear area of personnel and move upwind. Wear appropriate personnel protective equipment and clothing to prevent exposure. Avoid breathing in mists or vapours and skin or eyes contact. Extinguish or remove all sources of ignition and stop leak if safe to do so. Increase ventilation. Evacuate all unprotected personnel. If possible, contain the spill. Place inert absorbent, non- combustible material onto spillage. Use clean non- sparking tools to collect the material and place into suitable labelled containers for subsequent recycling or disposal. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authority.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 Handling and storage

Precautions for safe handling ▶ Containers, even those that have been emptied, may contain explosive vapours. Safe handling Avoid all personal contact, including inhalation. ▶ DO NOT allow clothing wet with material to stay in contact with skin Other information ▶ Store in original containers in approved flammable liquid storage area.

Conditions for safe storage, including any incompatibilities

Suitable container	Packing as supplied by manufacturer.
Storage incompatibility	n-Butyl acetate: reacts with water on standing to form acetic acid and n-butyl alcohol reacts violently with strong oxidisers and potassium tert-butoxide is incompatible with caustics, strong acids and nitrates dissolves rubber, many plastics, resins and some coatings Contact with water liberates highly flammable gases Epoxides: are highly reactive with acids, bases, and oxidising and reducing agents. Esters react with acids to liberate heat along with alcohols and acids. Avoid strong acids, bases.

SECTION 8 Exposure controls / personal protection

Control parameters

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Occupational Exposure Limits (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
New Zealand Workplace Exposure Standards (WES)	n-butyl acetate	n-Butyl acetate	150 ppm / 713 mg/m3	950 mg/m3 / 200 ppm	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	butyl acrylate	n-Butyl acrylate	2 ppm / 11 mg/m3	22 mg/m3 / 4 ppm	Not Available	(dsen) - Dermal sensitiser

Emergency Limits

Ingredient	TEEL-1	TEEL-2	TEEL-3
gamma- glycidoxypropyltrimethoxysilane	9.3 mg/m3	100 mg/m3	230 mg/m3
n-butyl acetate	Not Available	Not Available	Not Available
butyl acrylate	Not Available	Not Available	Not Available

Ingredient	Original IDLH	Revised IDLH
gamma- glycidoxypropyltrimethoxysilane	Not Available	Not Available
n-butyl acetate	1,700 ppm	Not Available
butyl acrylate	Not Available	113 ppm

Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit
gamma- glycidoxypropyltrimethoxysilane	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

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 n-butyl acetate

Odour Threshold Value: 0.0063 ppm (detection), 0.038-12 ppm (recognition)

Exposure at or below the recommended TLV-TWA is thought to prevent significant irritation of the eyes and respiratory passages as well as narcotic effects. For butyl acrylate:

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

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

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

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

SECTION 9 Physical and chemical properties

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Appearance	Clear liquid with characteristic odour		
Physical state	Liquid	Relative density (Water = 1)	1.01-1.02
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)	129	Molecular weight (g/mol)	Not Available
Flash point (°C)	28	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)	45
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	393

SECTION 10 Stability and reactivity

Reactivity	See section 7
Chemical stability	Product is considered stable.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 Toxicological information

Information on	toxicological	effects
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information on toxicological el	Tects
Inhaled	Evidence shows, or practical experience predicts, that the material produces irritation of the respiratory system, in a substantial number of individuals, following inhalation. The main effects of simple aliphatic esters are narcosis and irritation and anaesthesia at higher concentrations. Minor but regular methanol exposures may effect the central nervous system, optic nerves and retinae.
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. Methanol may produce a burning or painful sensation in the mouth, throat, chest and stomach.
Skin Contact	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. The material may produce moderate skin irritation; limited evidence or practical experience suggests, 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	When applied to the eye(s) of animals, the material produces severe ocular lesions which are present twenty-four hours or more after instillation. Methanol is a mild to moderate eye irritant.
Chronic	Long-term exposure to respiratory irritants may result in disease of the airways involving difficult breathing and related systemic problems. Strong evidence exists that the substance may cause irreversible but non-lethal mutagenic effects following a single exposure. 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. Long-term exposure to methanol vapour, at concentrations exceeding 3000 ppm, may produce cumulative effects characterised by gastrointestinal disturbances (nausea, vomiting), headache, ringing in the ears, insomnia, trembling, unsteady gait, vertigo, conjunctivitis and clouded or double vision.

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On the basis, primarily, of animal experiments, concern has been expressed by at least one classification body 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.

Prolonged or repeated skin contact may cause drying with cracking, irritation and possible dermatitis following.

	1			
RESENE ARMOURX 503 UVS	TOXICITY		IRRITATION	
CLEAR HARDENER	Not Available		Not Available	
	TOXICITY			IRRITATION
gamma-	Dermal (rabbit) LD50: 4247.9 mg/kg ^[2]			Not Available
glycidoxypropyltrimethoxysilane	Inhalation(Rat) LC50: >5.3 mg/L4h ^[2]			
	Oral (Rat) LD50: 7010 mg/kg ^[2]			
	TOXICITY	IRRITAT	TION	
	Dermal (rabbit) LD50: 3200 mg/kg ^[2]	Eye (human): 300 mg * [PPG]		
	Inhalation(Rat) LC50: 0.74 mg/l4h ^[2]	Eye (rabbit): 20 mg (open)-SEVERE		
n-butyl acetate	Oral (Rabbit) LD50; 3200 mg/kg ^[2] Eye (rabbit): 20 mg/24h - moderate		obit): 20 mg/24h - moderate	
		Eye: no adverse effect observed (not		itating) ^[1]
	Skin (rabbit): 500 mg/24h-moderate		bbit): 500 mg/24h-moderate	
		Skin: no adverse effect observed (not irritating) ^[1]		ritating) ^[1]
	TOXICITY	IR	RITATION	
	Dermal (rabbit) LD50: 750 mg/kg ^[2]	E	Eye (rabbit) 50 mg - mild	
hosted complete	Inhalation(Rat) LC50: >5.24 mg/l4h ^[1]		Eye: adverse effect observed (irritating) ^[1]	
butyl acrylate	Oral (Rat) LD50: 900 mg/kg ^[2]		Skin (rabbit) 10 mg/24h open mild	
		SI	kin (rabbit) 500 mg open - mild	
		SI	kin: adverse effect observed (irri	tating) ^[1]
	4. Value obtained from Furence FOUA Parietaned Cu		init O Nahar abtained from mon	

Legend:

1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

RESENE ARMOURX 503 UV	S CLEAR ARDENER	Exposure to the material may result in a p	ossible risk of irreversible effects.	
GLYCIDOXYPROPYLTRIMETHOX	GAMMA- (YSILANE	For gamma-glycidopropyltrimethoxysilane (GPTMS) GPTMS is subject to rapid hydrolysis, and the observed toxicity is expected to be due primarily to methanol and silanetriols.		
N-BUTYL	ACETATE	The material may produce severe irritation to the eye causing pronounced inflammation. The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic).		
BUTYL A	CRYLATE	Where no 'official' classification for acrylates and methacrylates exists, there has been cautious attempts to create classifications in the absence of contrary evidence. for n-butyl acrylate Acute toxicity: After oral administration, n-butyl acrylate is rapidly absorbed and metabolized in male rats (75% was eliminated as CO2, approximately 10% via urine and 2% via feces). 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. Based on the available oncogenicity data and without a better understanding of the carcinogenic mechanism the Health and Environmental Review Division (HERD), Office of Toxic Substances (OTS), of the US EPA previously concluded that all chemicals that contain the acrylate or methacrylate moiety (CH2=CHCOO or CH2=C(CH3)COO) should be considered to be a carcinogenic hazard unless shown otherwise by adequate testing. This position has now been revised and acrylates and methacrylates are no longer <i>de facto</i> carcinogens.		
RESENE ARMOURX 503 UV HARDENER & BUTYL A		Asthma-like symptoms may continue for n The following information refers to contact		
RESENE ARMOURX 503 UV HARDENER & N-BUTYL		Generally,linear and branched-chain alkyl tract, blood and most tissues throughout tl		nent alcohols and carboxylic acids in the intestinal
RESENE ARMOURX 503 UVS CLEAR HARDENER & GAMMA- GLYCIDOXYPROPYLTRIMETHOXYSILANE		or aerosols causing irreversible lung dama Alkoxysilane groups that rapidly hydrolyse Oxiranes (including glycidyl ethers and alk toxicology. for 1,2-butylene oxide (ethyloxirane):	age at low doses. when in contact with water, result in yl oxides, and epoxides) exhibit man	concern for lung toxicity, due to inhalation of vapours metabolites that may only cause mild skin irritation. y common characteristics with respect to animal ale and female rats exposed via inhalation.
Acute Toxicity	×		Carcinogenicity	×
Skin Irritation/Corrosion	on X		Reproductivity	×

Acute Toxicity	X	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	✓	STOT - Single Exposure	✓

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Respiratory or Skin STOT - Repeated Exposure sensitisation Mutagenicity **Aspiration Hazard**

Legend:

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

🥓 – Data available to make classification

SECTION 12 Ecological information

	Endpoint	Test Duration (hr)	Species	Value	Sour	***
RESENE ARMOURX 503 UVS CLEAR HARDENER	-	, ,	Not Available	1 4.1		Available
OLLAK HARDENER	Not Available	Not Available	Not Available	Not Available	Not /	Available
	Endpoint	Test Duration (hr)	Species		Value	Source
	NOEC(ECx)	96h	Fish		1.5mg/l	2
gamma-	EC50	96h	Algae or other aquatic p	lants	250mg/l	2
ycidoxypropyltrimethoxysilane	EC50	72h	Algae or other aquatic p	lants	>420mg/l	2
	LC50	96h	Fish		4.9mg/l	2
	EC50	48h	Crustacea		473mg/l	2
n-butyl acetate	Endpoint LC50 EC50 EC50 EC50(ECx)	Test Duration (hr) 96h 72h 48h 96h	Species Fish Algae or other aquatic pla Crustacea Fish	ints	Value 17-19mg/l 246mg/l 32mg/l 18mg/l	Source 4 2 1 2 2
	Endpoint	Test Duration (hr)	Species		Value	Source
	LC50	96h	Fish		1.1mg/l	2
	EC50	72h	Algae or other aquatic pl	ants	1.71mg/l	2
butyl acrylate	EC50	48h	Crustacea		1.3mg/l	2
	EC50	96h	Algae or other aquatic pl	ants	2.65mg/l	2
	NOEC(ECx)	504h	Crustacea		0.136mg/l	2

Leaend:

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.

Alkoxysilanes are highly toxic to algae and moderately toxic to aquatic invertebrates.

For gamma-glycidopropyltrimethoxysilane (GPTMS)

Environmental fate;

The melting point of GPTMS is < -70 C, the boiling point is 290 C at 1013 hPa, and the vapor pressure is 0.003 hPa at 20 C. Because GPTMS is hydrolytically unstable, the water solubility was not measured.

Significant environmental findings are limited.

For 1,2-Butylene oxide (Ethyloxirane):

log Kow values of 0.68 and 0.86.

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
gamma- glycidoxypropyltrimethoxysilane	нівн	нівн
n-butyl acetate	LOW	LOW
butyl acrylate	LOW (Half-life = 14 days)	LOW (Half-life = 0.96 days)

Bioaccumulative potential

p	
Ingredient	Bioaccumulation
gamma- glycidoxypropyltrimethoxysilane	LOW (LogKOW = -0.9152)

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Ingredient	Bioaccumulation
n-butyl acetate	LOW (BCF = 14)
butyl acrylate	LOW (LogKOW = 2.36)

Mobility in soil

Ingredient	Mobility
gamma- glycidoxypropyltrimethoxysilane	LOW (KOC = 90.22)
n-butyl acetate	LOW (KOC = 20.86)
butyl acrylate	LOW (KOC = 40.3)

SECTION 13 Disposal considerations

Waste treatment methods

Product / Packaging disposal

- Containers may still present a chemical hazard/ danger when empty.
- Legislation addressing waste disposal requirements may differ by country, state and/ or territory.
- ▶ DO NOT allow wash water from cleaning or process equipment to enter drains.
- Recycle wherever possible.

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

Disposal Requirements

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

SECTION 14 Transport information

Labels Required



Marine Pollutant	NO
HAZCHEM	•3Y

Land transport (UN)

UN number or ID number	1263		
UN proper shipping name	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)		
Transport hazard class(es)	Class 3 Subsidiary risk Not Applicable		
Packing group	III		
Environmental hazard	Not Applicable		
Special precautions for user	Special provisions 163; 223; 367 Limited quantity 5 L		

Air transport (ICAO-IATA / DGR)

The manapart (reste man) and	7		
UN number	1263		
UN proper shipping name	Paint (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base)		
Transport hazard class(es)	ICAO/IATA Class ICAO / IATA Subrisk ERG Code	3 Not Applicable 3L	
Packing group	III		
Environmental hazard	Not Applicable		
Special precautions for user	Special provisions Cargo Only Packing Instructions Cargo Only Maximum Qty / Pack Passenger and Cargo Packing Instructions Passenger and Cargo Maximum Qty / Pack		A3 A72 A192 366 220 L 355 60 L

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Passenger and Cargo Limited Quantity Packing Instructions	Y344
Passenger and Cargo Limited Maximum Qty / Pack	10 L

Sea transport (IMDG-Code / GGVSee)

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

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

Not Applicable

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

Product name	Group
gamma- glycidoxypropyltrimethoxysilane	Not Available
n-butyl acetate	Not Available
butyl acrylate	Not Available

Transport in bulk in accordance with the IGC Code

Product name	Ship Type
gamma- glycidoxypropyltrimethoxysilane	Not Available
n-butyl acetate	Not Available
butyl acrylate	Not Available

SECTION 15 Regulatory information

Safety, health and environmental regulations / legislation specific for the substance or mixture

This substance is to be managed using the conditions specified in an applicable Group Standard

HSR Number	Group Standard
HSR002662	Surface Coatings and Colourants Flammable Group Standard 2020

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

gamma-glycidoxypropyltrimethoxysilane 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) $\mathop{\rm Act}\nolimits$ - Classification of Chemicals - Classification Data

New Zealand Inventory of Chemicals (NZIoC)

n-butyl acetate is found on the following regulatory lists

New Zealand Approved Hazardous Substances with controls

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

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

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

butyl acrylate 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)

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

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RESENE ARMOURX 503 UVS CLEAR HARDENER

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Certified Handler

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

Class of substance	Quantities
Not Applicable	Not Applicable

Refer Group Standards for further information

Maximum quantities of certain hazardous substances permitted on passenger service vehicles

Subject to Regulation 13.14 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Hazard Class	Gas (aggregate water capacity in mL)	Liquid (L)	Solid (kg)	Maximum quantity per package for each classification
6.5A or 6.5B	120	1	3	
3.1C or 3.1D				10 L

Tracking Requirements

Not Applicable

National Inventory Status

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
New Zealand - NZIoC	Yes
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

SECTION 16 Other information

Revision Date	12/06/2023
Initial Date	12/06/2023

SDS Version Summary

Version	Date of Update	Sections Updated
0.2	12/06/2023	Toxicological information - Acute Health (inhaled), Hazards identification - Classification

Other information

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

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

Definitions and abbreviations

PC - TWA: Permissible Concentration-Time Weighted Average

PC - STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit,

IDLH: Immediately Dangerous to Life or Health Concentrations

ES: Exposure Standard OSF: Odour Safety Factor

NOAEL :No Observed Advers

NOAEL :No Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value LOD: Limit Of Detection

OTV: Odour Threshold Value

BCF: BioConcentration Factors

BEI: Biological Exposure Index

AIIC: Australian Inventory of Industrial Chemicals

DSL: Domestic Substances List

NDSL: Non-Domestic Substances List

IECSC: Inventory of Existing Chemical Substance in China

EINECS: European INventory of Existing Commercial chemical Substances

ELINCS: European List of Notified Chemical Substances

NLP: No-Longer Polymers

ENCS: Existing and New Chemical Substances Inventory

KECI: Korea Existing Chemicals Inventory NZIoC: New Zealand Inventory of Chemicals

PICCS: Philippine Inventory of Chemicals and Chemical Substances

TSCA: Toxic Substances Control Act

TCSI: Taiwan Chemical Substance Inventory

INSQ: Inventario Nacional de Sustancias Químicas

NCI: National Chemical Inventory

FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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