RESENE ARMOURX I.F. 503 BASE

Resene Paints (Australia) Limited

Version No: 1.1 Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements Issue Date: 09/05/2023 Print Date: 03/08/2023 L.GHS.AUS.EN

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

Product Identifier			
Product name	RESENE ARMOURX I.F. 503		
Synonyms	Incl. Clear, White, Ultra Deep, Industrial Red, Industrial Yellow, Magenta, Intense Red, SP Blast Grey, Silver Aluminium, Medium Aluminium		
Proper shipping name	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)		
Other means of identification	Not Available		

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

Relevant identified uses	9018, 10960, 7599, 8526, 8527, 8859, 9962, 6833, 8582, 8910
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Details of the manufacturer or supplier of the safety data sheet

Registered company name	Resene Paints (Australia) Limited	Resene Paints LTD	
Address	7 Production Avenue, Molendinar Queensland 4214 Australia	32-50 Vogel Street Wellington 5011 New Zealand	
Telephone	+61 7 55126600	+64 4 5770500	
Fax	+61 7 55126697	+64 4 5773327	
Website	www.resene.com.au	www.resene.co.nz	
Email	Not Available	advice@resene.co.nz	

Emergency telephone number

Association / Organisation	AUSTRALIAN POISONS CENTRE	NZ POISONS (24hr 7days)	CHEMWATCH EMERGENCY RESPONSE (24/7)
Emergency telephone numbers	131126	0800 764766	+61 1800 951 288
Other emergency telephone numbers	Not Available	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

HAZARDOUS CHEMICAL. DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

Poisons Schedule	Not Applicable
Classification ^[1]	Flammable Liquids Category 3, Serious Eye Damage/Eye Irritation Category 2A, Specific Target Organ Toxicity - Single Exposure (Narcotic Effects) Category 3, Specific Target Organ Toxicity - Single Exposure Category 2, Acute Toxicity (Inhalation) Category 4, Acute Toxicity (Oral) Category 4, Skin Corrosion/Irritation Category 2, Carcinogenicity Category 2, Hazardous to the Aquatic Environment Long-Term Hazard Category 3
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

Label elements

lazard pictogram(s)			
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Signal word

Warning

Hazard statement(s)

H226	Flammable liquid and vapour.	
H319	Causes serious eye irritation.	
H336	May cause drowsiness or dizziness.	
H371	May cause damage to organs. (Oral, Dermal, Inhalation)	
H332	Harmful if inhaled.	

H302	Harmful if swallowed.	
H315	Causes skin irritation.	
H351	Suspected of causing cancer.	
H412	Harmful to aquatic life with long lasting effects.	

Supplementary statement(s)

Not Applicable

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.			
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

Mixtures

CAS No	%[weight]	Name
123-86-4	10-30	n-butyl acetate
141-32-2	0.1-1	butyl acrylate
80-62-6	0.1-1	methyl methacrylate
107-98-2	1-5	propylene glycol monomethyl ether - alpha isomer
64742-95-6	0.1-1	naphtha petroleum. light aromatic solvent
64742-49-0.	5-15	naphtha petroleum, light, hydrotreated
1330-20-7	1-5	xylene
100-41-4	0.1-1	ethylbenzene
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * FU LOFL Vs available	

SECTION 4 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 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 SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY. For advice, contact a Poisons Information Centre or a doctor. Urgent hospital treatment is likely to be needed. In the mean time, qualified first-aid personnel should treat the patient following observation and employing supportive measures as indicated by the patient's condition. If the services of a medical officer or medical doctor are readily available, the patient should be placed in his/her care and a copy of the SDS should be provided. Further action will be the responsibility of the medical specialist. If medical attention is not available on the worksite or surroundings send the patient to a hospital together with a copy of the SDS. Where medical attention is not immediately available or where the patient is more than 15 minutes from a hospital or unless instructed otherwise: INDUCE vomiting with fingers down the back of the throat, ONLY IF CONSCIOUS. Lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. NOTE: Wear a protective glove when inducing vomiting by mechanical means. 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 i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result
Advice for firefighters	
Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard.
Fire/Explosion Hazard	 Liquid and vapour are flammable. Combustion products include: carbon monoxide (CO) carbon dioxide (CO2) other pyrolysis products typical of burning organic material. Contains low boiling substance: Closed containers may rupture due to pressure buildup under fire conditions.
HAZCHEM	•3Y

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

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

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

SECTION 7 Handling and storage

Precautions for safe handling	
Safe handling	 Containers, even those that have been emptied, may contain explosive vapours. Electrostatic discharge may be generated during pumping - this may result in fire. Avoid unnecessary personal contact, including inhalation. DO NOT allow clothing wet with material to stay in contact with skin
Other information	Store in original containers in approved flammable liquid storage area.

Conditions for safe storage, including any incompatibilities

Suitable container	Packing as supplied by manufacturer.
Storage incompatibility	 reacts violently with strong oxidisers is incompatible with caustics, strong acids and nitrates dissolves rubber, many plastics, resins and some coatings avoid strong acids, bases.

SECTION 8 Exposure controls / personal protection

Control parameters

Emergency Limits

Occupational Exposure Limits (OEL)

INGREDIENT DATA						
Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	n-butyl acetate	n-Butyl acetate	150 ppm / 713 mg/m3	950 mg/m3 / 200 ppm	Not Available	Not Available
Australia Exposure Standards	butyl acrylate	n-Butyl acrylate	1 ppm / 5 mg/m3	26 mg/m3 / 5 ppm	Not Available	Not Available
Australia Exposure Standards	methyl methacrylate	Methyl methacrylate	50 ppm / 208 mg/m3	416 mg/m3 / 100 ppm	Not Available	Not Available
Australia Exposure Standards	propylene glycol monomethyl ether - alpha isomer	Propylene glycol monomethyl ether	100 ppm / 369 mg/m3	553 mg/m3 / 150 ppm	Not Available	Not Available
Australia Exposure Standards	xylene	Xylene (o-, m-, p- isomers)	80 ppm / 350 mg/m3	655 mg/m3 / 150 ppm	Not Available	Not Available
Australia Exposure Standards	ethylbenzene	Ethyl benzene	100 ppm / 434 mg/m3	543 mg/m3 / 125 ppm	Not Available	Not Available

Ingredient TEEL-1 TEEL-2 TEEL-3 n-butyl acetate Not Available Not Available Not Available butyl acrylate Not Available Not Available Not Available methyl methacrylate Not Available Not Available Not Available propylene glycol monomethyl 100 ppm 160 ppm 660 ppm ether - alpha isomer naphtha petroleum, light 40,000 mg/m3 1,200 mg/m3 6,700 mg/m3 aromatic solvent naphtha petroleum, light, 1,000 mg/m3 11,000 mg/m3 66,000 mg/m3 hydrotreated xylene Not Available Not Available Not Available ethylbenzene Not Available Not Available Not Available Revised IDLH Ingredient Original IDLH n-butyl acetate 1,700 ppm Not Available butyl acrylate Not Available 113 ppm methyl methacrylate 1,000 ppm Not Available propylene glycol monomethyl Not Available Not Available ether - alpha isomer naphtha petroleum, light Not Available Not Available aromatic solvent naphtha petroleum, light, Not Available Not Available hydrotreated xylene Not Available 900 ppm Not Available ethylbenzene 800 ppm

Occupational Exposure Banding

Ingredient

Occupational Exposure Band Rating

Occupational Exposure Band Limit

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit
naphtha petroleum, light aromatic solvent	E	≤ 0.1 ppm
naphtha petroleum, light, hydrotreated	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.

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

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

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. for heptane (all isomers)

The TLV-TWA is protective against narcotic and irritant effects which are greater than those of pentane or n-hexane but less than those of octane.

for propylene glycol monomethyl ether (PGME)

Odour Threshold: 10 ppm.

For trimethyl benzene as mixed isomers (of unstated proportions)

Odour Threshold Value: 2.4 ppm (detection)

Use care in interpreting effects as a single isomer or other isomer mix.

Exposed individuals are NOT reasonably expected to be warned, by smell, that the Exposure Standard is being exceeded.

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

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

for xylenes:

IDLH Level: 900 ppm

Odour Threshold Value: 20 ppm (detection), 40 ppm (recognition)

NOTE: Detector tubes for o-xylene, measuring in excess of 10 ppm, are available commercially.

for ethyl benzene:

Odour Threshold Value: 0.46-0.60 ppm

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

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

NOTE P: The classification as a carcinogen need not apply if it can be shown that the substance contains less than 0.01% w/w benzene (EINECS No 200-753-7).

Exposure controls

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

Information on basic physical and chemical properties				
Appearance	Dispersion with characteristic odour			
Physical state	Liquid	Relative density (Water = 1)	1.2-1.3	
			Ce	ontinued

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)	50-55	Molecular weight (g/mol)	Not Available
Flash point (°C)	24-26	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)	40-45
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	510-520

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

Inhaled	Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may be harmful. 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. 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. Headache, fatigue, lassitude, irritability and gastrointestinal disturbances (e.g., nausea, anorexia and flatulence) are the most common symptoms of xylene overexposure.
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. Many aliphatic hydrocarbons create a burning sensation because they are irritating to the GI mucosa.
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:
Eye	Instillation of isoparaffins into rabbit eyes produces only slight irritation. Limited evidence or practical experience suggests, that the material may cause severe 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. Long-term exposure to respiratory irritants may result in disease of the airways involving difficult breathing and related systemic problems. 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. Prolonged or repeated contact with xylenes may cause defatting dermatitis with drying and cracking. Prolonged or repeated skin contact may cause drying with cracking, irritation and possible dermatitis following.

	ΤΟΧΙΟΙΤΥ		IRRITATION			
RESENE ARMOURX I.F. 503	Not Available		Not Available			
	ΤΟΧΙΟΙΤΥ	IRRITA	TION			
	Dermal (rabbit) LD50: 3200 mg/kg ^[2]	Eye (h	uman): 300 mg * [PPG]			
	Inhalation(Rat) LC50: 0.74 mg/l4h ^[2]	Eye (ra	bbit): 20 mg (open)-SEVERE			
n-butyl acetate	Oral (Rabbit) LD50; 3200 mg/kg ^[2]	Eye (ra	bit): 20 mg/24h - moderate			
		Eye: no	adverse effect observed (not irritating) ^[1]			
		Skin (ra	abbit): 500 mg/24h-moderate			
		Skin: no	o adverse effect observed (not irritating) ^[1]			
	ΤΟΧΙΟΙΤΥ	I	ITATION			
	Dermal (rabbit) LD50: 750 mg/kg ^[2]	E	ye (rabbit) 50 mg - mild			
	Inhalation(Rat) LC50: >5.24 mg/l4h ^[1]	E	ye: adverse effect observed (irritating) ^[1]			
butyl acrylate	Oral (Rat) LD50: 900 mg/kg ^[2]	S	kin (rabbit) 10 mg/24h open mild			
		S	kin (rabbit) 500 mg open - mild			
		S	kin: adverse effect observed (irritating) ^[1]			
	<u></u>					
	ΤΟΧΙΟΙΤΥ		IRRITATION			
	Dermal (rabbit) LD50: >5000 mg/kg ^[2]		Eye (rabbit): 150 mg			
methyl methacrylate	Inhalation(Rat) LC50: 29.8 mg/l4h ^[1]		Skin (rabbit): 10000 mg/kg (open)			
	Oral (Rat) LD50: 7872 mg/kg ^[2]					
	<u>}</u>					
	ΤΟΧΙΟΙΤΥ		IRRITATION			
	dermal (rat) LD50: >2000 mg/kg ^[1]		Eye (rabbit) 230 mg mild			
propylene glycol monomethyl	Inhalation(Rat) LC50: >6 mg/l4h ^[2]		Eye (rabbit) 500 mg/24 h mild			
etner - alpha isomer	Oral (Rat) LD50: 3739 mg/kg ^[1]		Eye (rabbit): 100 mg SEVERE			
			Skin (rabbit) 500 mg open - mild			
	ΤΟΧΙΟΙΤΥ	IRRIT	ATION			
naphtha petroleum, light	Dermal (rabbit) LD50: >1900 mg/kg ^[1] Eye: no		no adverse effect observed (not irritating) ^[1]			
aromatic solvent	Inhalation(Rat) LC50: >4.42 mg/L4h ^[1] Skin: a		adverse effect observed (irritating) ^[1]			
	Oral (Rat) LD50: >4500 mg/kg ^[1]					
	ΤΟΧΙΟΙΤΥ	IRRIT	ATION			
naphtha petroleum, light,	Dermal (rabbit) LD50: >1900 mg/kg ^[1]	Eye:	Eye: no adverse effect observed (not irritating) ^[1]			
hydrotreated	Inhalation(Rat) LC50: >4.42 mg/L4h ^[1] Skin: a		adverse effect observed (irritating) ^[1]			
	Oral (Rat) LD50: >2000 mg/kg ^[1]					
	ΤΟΧΙΟΙΤΥ	1	RRITATION			
	Dermal (rabbit) LD50: >1700 mg/kg ^[2]	E	/e (human): 200 ppm irritant			
	Inhalation(Rat) LC50: 5000 ppm4h ^[2]	E	ye (rabbit): 5 mg/24h SEVERE			
xylene	Oral (Mouse) LD50; 2119 mg/kg ^[2]	E	ye (rabbit): 87 mg mild			
	Eye		ye: adverse effect observed (irritating) ^[1]			
	Ski		sin (rabbit):500 mg/24h moderate			
	Ski		kin: adverse effect observed (irritating) ^[1]			
	тохісіту	IRRIT	ATION			
	Dermal (rabbit) LD50: 17800 mg/kg ^[2]	Eye (r	abbit): 500 mg - SEVERE			
ethylbenzene	Inhalation(Rat) LC50: 17.2 mg/l4h ^[2]	Eye: n	o adverse effect observed (not irritating) ^[1]			
	Oral (Rat) LD50: 3500 mg/kg ^[2]	Skin (I	rabbit): 15 mg/24h mild			
		Skin: no adverse effect observed (not irritating) ^[1]				

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 I.F. 503	Data demonstrate that during inhalation exposure, aromatic hydrocarbons undergo substantial partitioning into adipose tissues.				
BUTYL ACRYLATE	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).				
METHYL METHACRYLATE	Inhalation (human) TCLo: 60 mg/m3(15 ppm) [* Manuf. For methyl methacrylate: Acute toxicity: MMA is rapidly absorbed after oral or inhalatory administration.				
PROPYLENE GLYCOL MONOMETHYL ETHER - ALPHA ISOMER	NOTE: For PGE - mixed isomers: Exposure of pregnant rats and rabbits to the substance did not give rise to teratogenic effects at concentrations up to 3000 ppm.				
NAPHTHA PETROLEUM, LIGHT AROMATIC SOLVENT	* [Devoe] . 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 predominantly mixed C9 aromatic hydrocarbons (CAS RN 64742-95-6).				
NAPHTHA PETROLEUM, LIGHT, HYDROTREATED	DHC Solvent Chemie (for EC No.: 926-605-8) For Low by the oral (median lethal dose [LD50] in rats > 2000 n mg/kg-bw) routes of exposure Most LBPNs are mild to and heavy catalytic reformed naphthas, which have hi The High Benzene Naphthas (HBNs; Lower Olefins at ethylene manufacturing streams (products) that exhib For petroleum: This product contains benzene, which compounds which are toxic to the nervous system.	DHC Solvent Chemie (for EC No.: 926-605-8) For Low Boiling Point Naphthas (LBPNs): Acute toxicity: LBPNs generally have low acute toxicity by the oral (median lethal dose [LD50] in rats > 2000 mg/kg-bw), inhalation (LD50 in rats > 5000 mg/m3) and dermal (LD50 in rabbits > 2000 mg/kg-bw) routes of exposure Most LBPNs are mild to moderate eye and skin irritants in rabbits, with the exception of heavy catalytic cracked and heavy catalytic reformed naphthas, which have higher primary skin irritation indices. The High Benzene Naphthas (HBNs; Lower Olefins and Aromatics -LOA - CAT H) Category was developed for the HPV Program by grouping ethylene manufacturing streams (products) that exhibit commonalities from both manufacturing process and compositional perspectives. For petroleum: This product contains benzene, which can cause acute myeloid leukaemia, and n-hexane, which can be metabolized to			
XYLENE	Reproductive effector in rats				
ETHYLBENZENE	Liver changes, utheral tract, effects on fertility, foetoto. Ethylbenzene is readily absorbed following inhalation, through urine. NOTE: Substance has been shown to be mutagenic in cellular DNA.	xicity, specific developmental abnorma oral, and dermal exposures, distribut n at least one assay, or belongs to a fa	alities (musculoskeletal system) recorded. ed throughout the body, and excreted primarily amily of chemicals producing damage or change to		
	WARNING: This substance has been classified by the	e IARC as Group 2B: Possibly Carcino	ogenic to Humans.		
RESENE ARMOURX I.F. 503 & BUTYL ACRYLATE & METHYL METHACRYLATE & NAPHTHA PETROLEUM, LIGHT AROMATIC SOLVENT	Asthma-like symptoms may continue for months or even years after exposure to the material ends.				
RESENE ARMOURX I.F. 503 & BUTYL ACRYLATE & METHYL METHACRYLATE	The following information refers to contact allergens as a group and may not be specific to this product.				
RESENE ARMOURX I.F. 503 & N-BUTYL ACETATE	Generally, linear and branched-chain alkyl esters are hydrolysed to their component alcohols and carboxylic acids in the intestinal tract, blood and most tissues throughout the body.				
RESENE ARMOURX I.F. 503 & NAPHTHA PETROLEUM, LIGHT, HYDROTREATED	Studies indicate that normal, branched and cyclic paraffins are absorbed from the mammalian gastrointestinal tract and that the absorption of n-paraffins is inversely proportional to the carbon chain length, with little absorption above C30.				
RESENE ARMOURX I.F. 503 & NAPHTHA PETROLEUM, LIGHT AROMATIC SOLVENT	For trimethylbenzenes: Absorption of 1,2,4-trimethylbenzene occurs after oral, inhalation, or dermal exposure.				
RESENE ARMOURX I.F. 503 & PROPYLENE GLYCOL MONOMETHYL ETHER - ALPHA ISOMER	for propylene glycol ethers (PGEs): Typical propylene glycol ethers include propylene glycol n-butyl ether (PnB); dipropylene glycol n-butyl ether (DPnB); dipropylene glycol methyl ether acetate (DPMA); tripropylene glycol methyl ether (TPM). Testing of a wide variety of propylene glycol ethers Testing of a wide variety of propylene glycol ethers has shown that propylene glycol-based ethers are less toxic than some ethers of the ethylene series.				
N-BUTYL ACETATE & XYLENE & ETHYLBENZENE	The material may produce severe irritation to the eye causing pronounced inflammation. The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic).				
BUTYL ACRYLATE & METHYL METHACRYLATE	Where no 'official' classification for acrylates and methacrylates exists, there has been cautious attempts to create classifications in the absence of contrary evidence. 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=CHCO) 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.				
BUTYL ACRYLATE & METHYL METHACRYLATE & XYLENE	The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limit	ited in animal testing.			
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:

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

SECTION 12 Ecological information

	Endpoint	Test Duration (br)	Species	Value	9	Source
RESENE ARMOURX I.F. 503	Not Available	Not Available	Not Available Not Available		Not Available Not Av	
		I			1	
	Endpoint	Test Duration (hr)	Species		Value	Source
	EC50	72h	Algae or other aquatic plar	other aquatic plants		2
n-butyl acetate	EC50	48h	Crustacea		32mg/l	1
	LC50	96h	Fish		17-19mg/l	4
	EC50(ECx)	96h	Fish		18mg/l	2
	Endpoint	Test Duration (hr)	Species		Value	Source
	EC50	72h	Algae or other aquatic pla	ints	1.71mg/l	2
hutul condete	EC50	48h	Crustacea		1.3mg/l	2
butyl acrylate	EC50	96h	Algae or other aquatic pla	ints	2.65mg/l	2
	LC50	96h	Fish		1.1mg/l	2
	NOEC(ECx)	504h	Crustacea		0.136mg/l	2
	Endpoint	Test Duration (hr)	Species		Value	Source
	EC50	72h	Algae or other aquatic plant	ts	>110mg/l	2
methyl methacrylate	EC50	48h	Crustacea		69mg/l	1
,	EC50	96h	Algae or other aquatic plant	ts	170mg/l	1
	EC0(ECx)	48h	Crustacea		48mg/l	1
	LC50	96h	Fish		>79mg/l	2
	Endpoint	Test Duration (hr)	Species	ecies Value		Source
	EC50	96h	Algae or other aquatic plants	>10	00mg/l	2
ropylene glycol monomethyl ether - alpha isomer	EC50	/2h	Algae or other aquatic plants	>50	Jmg/I	2
	EC50	48n	Eich	2330		1
	EC50(ECx)	168h	Algae or other aquatic plants	>10)0mg/l	1
	Endpoint					
	LIUDOIIIL	Test Duration (hr)	Species		Value	Source
	EC50	Test Duration (hr)	Algae or other aquatic pla	ants	Value	Source
naphtha petroleum, light	EC50 EC50	Test Duration (hr) 72h 48h	Algae or other aquatic pla	ants	Value 19mg/l 6.14mg/l	Source 1 1
naphtha petroleum, light aromatic solvent	EC50 EC50 EC50	Test Duration (hr) 72h 48h 96h	Species Algae or other aquatic pla Crustacea Algae or other aquatic pla	ants	Value 19mg/l 6.14mg/l 64mg/l	Source 1 1 2
naphtha petroleum, light aromatic solvent	EC50 EC50 EC50 NOEC(ECx)	Test Duration (hr) 72h 48h 96h 72h	Species Algae or other aquatic pla Crustacea Algae or other aquatic pla Algae or other aquatic pla Algae or other aquatic pla	ants	Value 19mg/l 6.14mg/l 64mg/l 1mg/l	Source 1 2 1
naphtha petroleum, light aromatic solvent	EC50 EC50 EC50 NOEC(ECx)	Test Duration (hr) 72h 48h 96h 72h	Species Algae or other aquatic pla Crustacea Algae or other aquatic pla Algae or other aquatic pla Algae or other aquatic pla	ants ants ants	Value 19mg/l 6.14mg/l 64mg/l 1mg/l	Source 1 2 1
naphtha petroleum, light aromatic solvent	EC50 EC50 EC50 NOEC(ECx)	Test Duration (hr) 72h 48h 96h 72h 72h Test Duration (hr)	Species Algae or other aquatic pla Crustacea Algae or other aquatic pla Algae or other aquatic pla Species	ants ants ants	Value 19mg/l 6.14mg/l 64mg/l 1mg/l Value	Source 1 2 1 Source
naphtha petroleum, light aromatic solvent	EC50 EC50 EC50 NOEC(ECx) Endpoint EC50	Test Duration (hr) 72h 48h 96h 72h Test Duration (hr) 48h	Species Algae or other aquatic pl. Crustacea Algae or other aquatic pl. Algae or other aquatic pl. Algae or other aquatic pl. Species Crustacea Crustacea	ants ants ants	Value 19mg/l 6.14mg/l 64mg/l 1mg/l Value 0.64mg/l 0.64mg/l	Source 1 2 1 2 1 2 1 2 1 2 1 2 1
naphtha petroleum, light aromatic solvent naphtha petroleum, light, bydrotreated	EC50 EC50 NOEC(ECx) EC50 EC50 EC50 EC50	Test Duration (hr) 72h 48h 96h 72h Test Duration (hr) 48h 96h	Species Algae or other aquatic pl Crustacea Algae or other aquatic pl Algae or other aquatic pl Algae or other aquatic pl Species Crustacea Algae or other aquatic pl	ants ants ants ants ants ants ants	Value 19mg/l 6.14mg/l 64mg/l 1mg/l Value 0.64mg/l 64mg/l	Source 1 2 1 2 1 2 1 2 1 2 1 2 2 2 2 2 2 2 2 2 2
naphtha petroleum, light aromatic solvent naphtha petroleum, light, hydrotreated	EC50 EC50 EC50 NOEC(ECx) Endpoint EC50 EC50 EC50 LC50	Test Duration (hr) 72h 48h 96h 72h Test Duration (hr) 48h 96h	Species Algae or other aquatic pl Crustacea Algae or other aquatic pl Algae or other aquatic pl Algae or other aquatic pl Species Crustacea Algae or other aquatic pl Crustacea Algae or other aquatic pl Fish	ants ants ants ants ants	Value 19mg/l 6.14mg/l 64mg/l 1mg/l 0.64mg/l 0.64mg/l 4.26mg/l	Source 1 2 1 2 1 2 1 2 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
naphtha petroleum, light aromatic solvent naphtha petroleum, light, hydrotreated	EC50 EC50 EC50 NOEC(ECx) EC50 EC50 EC50 LC50 NOEC(ECx)	Test Duration (hr) 72h 48h 96h 72h Test Duration (hr) 48h 96h	Species Algae or other aquatic pl Crustacea Algae or other aquatic pl Algae or other aquatic pl Algae or other aquatic pl Species Crustacea Algae or other aquatic pl Crustacea Fish Crustacea	ants ants ants ants	Value 19mg/l 6.14mg/l 64mg/l 1mg/l 0.64mg/l 0.64mg/l 4.26mg/l 0.17mg/l	Source 1 2 1 2 1 2 1 2 1 2
naphtha petroleum, light aromatic solvent naphtha petroleum, light, hydrotreated	EC50 EC50 NOEC(ECx) EC50 EC50 EC50 EC50 LC50 NOEC(ECx)	Test Duration (hr) 72h 48h 96h 72h Test Duration (hr) 48h 96h 504h	Species Algae or other aquatic pl Crustacea Algae or other aquatic pl Algae or other aquatic pl Algae or other aquatic pl Crustacea Crustacea Algae or other aquatic pl Crustacea Algae or other aquatic pl Crustacea Algae or other aquatic pla Fish Crustacea	ants ants ants ants ants	Value 19mg/l 6.14mg/l 64mg/l 1mg/l 0.64mg/l 0.64mg/l 4.26mg/l 0.17mg/l	Source 1 2 1 2 1 2 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2
naphtha petroleum, light aromatic solvent naphtha petroleum, light, hydrotreated	Endpoint EC50 EC50 NOEC(ECx) EC50 EC50 EC50 LC50 NOEC(ECx) Endpoint	Test Duration (hr) 72h 48h 96h 72h Test Duration (hr) 48h 96h 96h 96h 504h	Species Algae or other aquatic pl Crustacea Algae or other aquatic pl Algae or other aquatic pl Algae or other aquatic pl Crustacea Algae or other aquatic pl Crustacea Algae or other aquatic pl Fish Crustacea Species Species	ants ants ants ants ants ants	Value 19mg/l 6.14mg/l 64mg/l 1mg/l 0.64mg/l 64mg/l 0.64mg/l 64mg/l 0.17mg/l Value	Source 1 2 1 2 1 2 2 2 2 2 2 2 2 2 2 3 2 3
naphtha petroleum, light aromatic solvent naphtha petroleum, light, hydrotreated	EC50 EC50 NOEC(ECx) EC50 EC50 EC50 EC50 LC50 NOEC(ECx) Endpoint EC50	Test Duration (hr) 72h 48h 96h 72h Test Duration (hr) 48h 96h 72h	Species Algae or other aquatic pl Crustacea Algae or other aquatic pl Algae or other aquatic pl Algae or other aquatic pl Crustacea Crustacea Algae or other aquatic pl Crustacea Algae or other aquatic pla Fish Crustacea Species Algae or other aquatic pla Fish Crustacea Algae or other aquatic pla Fish Crustacea Algae or other aquatic pla	ants ants ants ants ants ants ants ants	Value 19mg/l 6.14mg/l 64mg/l 1mg/l Value 0.64mg/l 64mg/l 4.26mg/l 0.17mg/l Value 4.6mg/l	Source 1 2 1 2 1 2
naphtha petroleum, light aromatic solvent naphtha petroleum, light, hydrotreated xylene	Endpoint EC50 EC50 NOEC(ECx) EC50 EC50 EC50 LC50 NOEC(ECx) EC50 EC50 EC50 EC50	Test Duration (hr) 72h 48h 96h 72h Test Duration (hr) 48h 96h 72h 48h 96h 96h 96h 72h 48h	Species Algae or other aquatic pl Crustacea Algae or other aquatic pl Algae or other aquatic pl Algae or other aquatic pl Crustacea Algae or other aquatic pl Crustacea Algae or other aquatic pla Fish Crustacea Algae or other aquatic pla Fish Crustacea Algae or other aquatic pla Crustacea Crustacea Crustacea Crustacea Crustacea Crustacea Crustacea Crustacea Algae or other aquatic pla Crustacea	ants ants ants ants ants ants ants ants	Value 19mg/l 6.14mg/l 64mg/l 1mg/l 0.64mg/l 0.64mg/l 4.26mg/l 0.17mg/l Value 1.8mg/l	Source 1 2 1 2 1 2
naphtha petroleum, light aromatic solvent naphtha petroleum, light, hydrotreated xylene	Endpoint EC50 EC50 NOEC(ECx) EC50 EC50 EC50 LC50 NOEC(ECx) EC50 EC50 EC50 EC50 EC50	Test Duration (hr) 72h 48h 96h 72h Test Duration (hr) 48h 96h 96h 96h 96h 96h 96h 96h 72h Test Duration (hr) 72h 48h 96h 96h 96h 72h 48h 96h 96h 96h 96h 96h 96h 96h 96h	Species Algae or other aquatic pl Crustacea Algae or other aquatic pl Algae or other aquatic pl Algae or other aquatic pl Crustacea Algae or other aquatic pl Crustacea Algae or other aquatic pl Crustacea Algae or other aquatic pl Fish Crustacea Algae or other aquatic pl Crustacea Crustacea Fish Crustacea Fish Fish	ants ants ants ants ants ants ants ants	Value 19mg/l 6.14mg/l 64mg/l 1mg/l 0.64mg/l 4.26mg/l 0.17mg/l Value 2.6mg/l 1.8mg/l 2.6mg/l	Source 1 2 1 2 1 2
naphtha petroleum, light aromatic solvent naphtha petroleum, light, hydrotreated xylene	Endpoint EC50 EC50 NOEC(ECx) EC50 EC50 EC50 LC50 NOEC(ECx) EC50 EC50 EC50 EC50 EC50 EC50 EC50 EC50	Test Duration (hr) 72h 48h 96h 72h Test Duration (hr) 48h 96h 72h 48h 96h 73h	Species Algae or other aquatic pl Crustacea Algae or other aquatic pl Algae or other aquatic pl Algae or other aquatic pl Crustacea Algae or other aquatic pl Crustacea Algae or other aquatic pl Fish Crustacea Algae or other aquatic pl Fish Crustacea Algae or other aquatic pl Crustacea Fish Crustacea Algae or other aquatic pl	ants ants ants ants ants ants ants ants	Value 19mg/l 6.14mg/l 64mg/l 1mg/l Value 0.64mg/l 4.26mg/l 0.17mg/l Value 4.6mg/l 1.8mg/l 2.6mg/l 0.44mg/l	Source 1 1 2 1 2 1 2
naphtha petroleum, light aromatic solvent naphtha petroleum, light, hydrotreated xylene	Endpoint EC50 EC50 NOEC(ECx) EC50 EC50 EC50 LC50 NOEC(ECx) EC50 EC50 EC50 EC50 EC50 EC50 EC50	Test Duration (hr) 72h 48h 96h 72h Test Duration (hr) 48h 96h 72h 48h 96h 72h 48h 96h 72h	Species Algae or other aquatic pl Crustacea Algae or other aquatic pl Algae or other aquatic pl Algae or other aquatic pl Crustacea Algae or other aquatic pl Crustacea Algae or other aquatic pl Fish Crustacea Algae or other aquatic pl Fish Crustacea Fish Algae or other aquatic pl Crustacea Fish Algae or other aquatic pl Crustacea Fish Algae or other aquatic pl	ants ants ants ants ants ants ants ants	Value 19mg/l 6.14mg/l 64mg/l 1mg/l 0.64mg/l 4.26mg/l 0.17mg/l Value 0.17mg/l 2.6mg/l 1.8mg/l 2.6mg/l 0.44mg/l	Source 1 2 1 2 1 2
naphtha petroleum, light aromatic solvent naphtha petroleum, light, hydrotreated xylene	Endpoint EC50 EC50 EC50 NOEC(ECx) EC50 EC50 EC50 LC50 NOEC(ECx) EC50 EC50 EC50 LC50 NOEC(ECx)	Test Duration (hr) 72h 48h 96h 72h 72h 72h 72h 72h 72h 72h 72h 72h 96h 72h 48h 96h 72h 48h 96h 72h 48h 96h 73h 73h	Species Algae or other aquatic pl Crustacea Algae or other aquatic pl Algae or other aquatic pl Algae or other aquatic pl Crustacea Algae or other aquatic pl Crustacea Algae or other aquatic pl Fish Crustacea Algae or other aquatic pl Fish Crustacea Algae or other aquatic pl Fish Algae or other aquatic pl Fish Algae or other aquatic pl Fish Algae or other aquatic pl Species Species	ants ants ants ants ants ants ants ants	Value 19mg/l 19mg/l 6.14mg/l 64mg/l 1mg/l 0.64mg/l 64mg/l 4.26mg/l 0.17mg/l 4.6mg/l 1.8mg/l 0.44mg/l	Source 1 1 2 1 2 3 4 5

LC50	96h	Fish	3.381-4.075mg/L	4
EC50(ECx)	24h	Algae or other aquatic plants	0.02-938mg/l	4
Legend: Extracted from 1. Ecotox database - Bioconcentration	OCLID Toxicity Data 2 Aquatic Toxicity Data Data 8. Vendor Data	. Europe ECHA Registered Substances - Ecotoxic 5. ECETOC Aquatic Hazard Assessment Data 6.	ological Information - Aquatic Toxic NITE (Japan) - Bioconcentration Da	nty 4. US EPA, nta 7. METI (Jap

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.

When released in the environment, alkanes don't undergo rapid biodegradation, because they have no functional groups (like hydroxyl or carbonyl) that are needed by most organisms in order to metabolize the compound.

- For n-heptane: log Kow : 4.66
- Koc : 2400-8100 Half-life (hr) air : 52.8 Half-life (hr) H2O surface water : 2.9-312 Henry's atm m3 /mol: 2.06 BOD 5 if unstated: 1.92 COD : 0.06 BCF : 340-2000 log BCF : 2.53-3.31 Environmental fate: Photolysis or hydrolysis of n-heptane are not expected to be important environmental fate processes. 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 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
n-butyl acetate	LOW	LOW
butyl acrylate	LOW (Half-life = 14 days)	LOW (Half-life = 0.96 days)
methyl methacrylate	LOW	LOW
propylene glycol monomethyl ether - alpha isomer	LOW (Half-life = 56 days)	LOW (Half-life = 1.7 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
n-butyl acetate	LOW (BCF = 14)
butyl acrylate	LOW (LogKOW = 2.36)
methyl methacrylate	LOW (BCF = 6.6)
propylene glycol monomethyl ether - alpha isomer	LOW (BCF = 2)
xylene	MEDIUM (BCF = 740)
ethylbenzene	LOW (BCF = 79.43)

Mobility in soil

Ingredient	Mobility
n-butyl acetate	LOW (KOC = 20.86)
butyl acrylate	LOW (KOC = 40.3)
methyl methacrylate	LOW (KOC = 10.14)
propylene glycol monomethyl ether - alpha isomer	HIGH (KOC = 1)

Ingredient	Mobility
ethylbenzene	LOW (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. 		

SECTION 14 Transport information

Labels Required

Marine Pollutant	NO
HAZCHEM	3Y

Land transport (ADG)

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 Subsidiary risk	3 Not Applicable	
Packing group	ш		
Environmental hazard	Not Applicable		
Special precautions for user	Special provisions	163 223 367 5 L	

Air transport (ICAO-IATA / DGR)

UN number	1263				
UN proper shipping name	Paint (including paint, la	cquer, enamel, stain, shellac, varnish, p	olish, liquid filler a	nd 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 Ir Cargo Only Maximum Passenger and Cargo Passenger and Cargo Passenger and Cargo Passenger and Cargo	Astructions Qty / Pack Packing Instructions Maximum Qty / Pack Limited Quantity Packing Instructions Limited Maximum Qty / Pack	A3 A72 A192 366 220 L 355 60 L Y344 10 L		

Sea transport (IMDG-Code / GGVSee)

UN number	1263	1263	
UN proper shipping name	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)		
Transport hazard class(es)	IMDG Class IMDG Subrisk	3 Not Applicable	
Packing group	III		
Environmental hazard	Not Applicable		

	EMS Number	F-E, S-E
Special precautions for user	Special provisions	163 223 367 955
	Limited Quantities	5 L

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

Not Applicable

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

	Product name	Group
	n-butyl acetate	Not Available
	butyl acrylate	Not Available
	methyl methacrylate	Not Available
	propylene glycol monomethyl ether - alpha isomer	Not Available
	naphtha petroleum, light aromatic solvent	Not Available
	naphtha petroleum, light, hydrotreated	Not Available
	xylene	Not Available
ļ	ethylbenzene	Not Available

Transport in bulk in accordance with the IGC Code

Product name	Ship Type
n-butyl acetate	Not Available
butyl acrylate	Not Available
methyl methacrylate	Not Available
propylene glycol monomethyl ether - alpha isomer	Not Available
naphtha petroleum, light aromatic solvent	Not Available
naphtha petroleum, light, hydrotreated	Not Available
xylene	Not Available
ethylbenzene	Not Available

SECTION 15 Regulatory information

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

l	n-butyl acetate is found on the following regulatory lists	
	Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals	Australian Inventory of Industrial Chemicals (AIIC)
l	butyl acrylate is found on the following regulatory lists	
	Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australian Inventory of Industrial Chemicals (AIIC)	International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic
l	methyl methacrylate is found on the following regulatory lists	
	Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals	Australian Inventory of Industrial Chemicals (AIIC)
	Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6	International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic
l	propylene glycol monomethyl ether - alpha isomer is found on the following regulator	y lists
	Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals	Australian Inventory of Industrial Chemicals (AIIC)
l	naphtha petroleum, light aromatic solvent is found on the following regulatory lists	
	Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals	Chemical Footprint Project - Chemicals of High Concern List
	Australian Inventory of Industrial Chemicals (AIIC)	International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic
l	naphtha petroleum, light, hydrotreated is found on the following regulatory lists	
	Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals	Chemical Footprint Project - Chemicals of High Concern List
	Australian Inventory of Industrial Chemicals (AIIC)	International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic
l	xylene is found on the following regulatory lists	
	Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals	Australian Inventory of Industrial Chemicals (AIIC)
	Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5 $$	International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic
	Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6	

ethylbenzene is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5

Australian Inventory of Industrial Chemicals (AIIC)

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

National Inventory Status

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (n-butyl acetate; butyl acrylate; methyl methacrylate; propylene glycol monomethyl ether - alpha isomer; naphtha petroleum, light aromatic solvent; naphtha petroleum, light, hydrotreated; xylene; ethylbenzene)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	No (naphtha petroleum, light, hydrotreated)
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	09/05/2023
Initial Date	25/05/2021

Other information

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

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

Definitions and abbreviations

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

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