Altex Epoxy Barrier Undercoat Part A Resene Paints (Australia) Limited

Version No: 8.21

Safety Data Sheet according to WHS and ADG requirements

Chemwatch Hazard Alert Code: 3

Issue Date: 17/11/2020 Print Date: 17/11/2020 S.GHS.AUS.EN

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

Product Identifier		
Product name	Altex Epoxy Barrier Undercoat Part A	
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 uses Part A of a two pack industrial coating

Details of the supplier of the safety data sheet

Registered company name Resene Paints (Australia) Limited	
Address	64 Link Drive Queensland 4207 Australia
Telephone	+61 7 55126600
Fax	+64 7 541 1310
Website	www.resene.com.au
Email	Not Available

Emergency telephone number

Association / Organisation	AUSTRALIAN POISONS CENTRE	CHEMWATCH EMERGENCY RESPONSE
Emergency telephone numbers	131126	+61 2 9186 1132
Other emergency telephone numbers	Not Available	+61 1800 951 288

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

SECTION 2 Hazards identification

Classification of the substance or mixture

 HAZARDOUS CHEMICAL. DANGER-US GOODS. According to the WHS Regulations and the ADG Code.

 Poisons Schedule
 Not Applicable

 Classification [1]
 Flammable Liquid Category 3, Specific target organ toxicity - single exposure Category 3 (narcotic effects), Specific target organ toxicity - single exposure Category 2, Reproductive Toxicity Category 2, Skin Sensitizer
Category 1, Carcinogenicity Category 2

 Legend:
 1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

Label elements

Hazard pictogram(s)	
Signal word	Danger

Hazard statement(s)

H226	Flammable liquid and vapour.
H336	May cause drowsiness or dizziness.
H371	May cause damage to organs.
H318	Causes serious eye damage.
H315	Causes skin irritation.
H361	Suspected of damaging fertility or the unborn child.
H317	May cause an allergic skin reaction.
H351	Suspected of causing cancer.

Supplementary statement(s)

Not Applicable

Precautionary statement(s) Prevention

Obtain special instructions before use.
Keep away from heat/sparks/open flames/hot surfaces No smoking.
Do not breathe mist/vapours/spray.
Use in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.
Use personal protective equipment as required.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/intrinsically safe equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Do not eat, drink or smoke when using this product.
Contaminated work clothing should not be allowed out of the workplace.

Precautionary statement(s) Response

P305+P351+P338	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+P313 IF exposed or concerned: Get medical advice/ attention.	
P308+P313		
P310 Immediately call a POISON CENTER/doctor/physician/first aider. P321 Specific treatment (see advice on this label).		
		P370+P378
P302+P352	IF ON SKIN: Wash with plenty of water and soap.	
P333+P313 If skin irritation or rash occurs: 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

Mixtures

CAS No	%[weight]	Name
1330-20-7	10-20	xylene
25036-25-3	10-20	bisphenol A/ bisphenol A diglycidyl ether polymer
71-36-3	10-20	n-butanol

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 until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Transport to hospital or doctor without delay. 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.

Continued...

Altex Epoxy Barrier Undercoat Part A

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 casuality can comfortably drink.
 Seek medical advice.
 Avoid giving milk or oils.
 Avoid giving alcohol.

Indication of any immediate medical attention and special treatment needed

Any material aspirated during vomiting may produce lung injury. Therefore emesis should not be induced mechanically or pharmacologically. Mechanical means should be used if it is considered necessary to evacuate the stomach contents; these include gastric lavage after endotracheal intubation. If spontaneous vomiting has occurred after ingestion, the patient should be monitored for difficult breathing, as adverse effects of aspiration into the lungs may be delayed up to 48 hours. Treat symptomatically.

SECTION 5 Firefighting measures

Extinguishing media

Alcohol stable foam.

- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.
- Water spray or fog Large fires only.

Fire Incompatibility

Special hazards arising from the substrate or mixture

Advice for firefighters		
Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. May be violently or explosively reactive. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course. If safe, switch off electrical equipment until vapour fire hazard removed. Use water delivered as a fine spray to control fire and cool adjacent area. Avoid spraying water onto liquid pools. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. 	
Fire/Explosion Hazard	 Liquid and vapour are flammable. Moderate fire hazard when exposed to heat or flame. Vapour forms an explosive mixture with air. Moderate explosion hazard when exposed to heat or flame. Vapour may travel a considerable distance to source of ignition. Heating may cause expansion or decomposition leading to violent rupture of containers. On combustion, may emit toxic fumes of carbon monoxide (CO). Combustion products include: carbon monoxide (CO) carbon dioxide (CO2) aldehydes silicon dioxide (SiO2) other pyrolysis products typical of burning organic material. 	
HAZCHEM	•3Y	

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

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. Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb small quantities with vermiculite or other absorbent material. Wipe up. Collect residues in a flammable waste container.
Major Spills	 Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. May be violently or explosively reactive. Wear breathing apparatus plus protective gloves.

Prevent, by any means available, spillage from entering drains or water course.
Consider evacuation (or protect in place).
No smoking, naked lights or ignition sources.
▶ Increase ventilation.
Stop leak if safe to do so.
Water spray or fog may be used to disperse /absorb vapour.
Contain spill with sand, earth or vermiculite.
Use only spark-free shovels and explosion proof equipment.
Collect recoverable product into labelled containers for recycling.
Absorb remaining product with sand, earth or vermiculite.
Collect solid residues and seal in labelled drums for disposal.
Wash area and prevent runoff into drains.
If contamination of drains or waterways occurs, advise emergency services.

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. Do NOT cut, drill, grind, weld or perform similar operations on or near containers. Avoid all personal contact, including inhalation. Wear protective clothing when risk of overexposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has been checked. Avoid smoking, naked lights or ignition sources. Avoid generation of static electricity. DO NOT use plastic buckets. Earth all lines and equipment. Use spark-free tools when handling. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers. Always wash hands with soap and water after handling. Work clothes should be laundered separately. Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS. Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions. 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. Store away from incompatible materials in a cool, dry, well-ventilated area. DO NOT store in pits, depressions, basements or areas where vapours may be trapped. No smoking, naked lights, heat or ignition sources. Storage areas should be clearly identified, well illuminated, clear of obstruction and accessible only to trained and authorised personnel - adequate security must be provided so that unauthorised personnel do not have access. Store according to applicable regulations for flammable materials for storage tanks, containers, piping, buildings, rooms, cabinets, allowable quantities and minimum storage distances. Use non-sparking ventilation systems, approved explosion proof equipment and intrinsically safe electrical systems. Have appropriate extinguishing capability in storage area (e.g. portable fire extinguishers - dry chemical, foam or carbon dioxide) and flammable gas detectors. Keep adsorbents for leaks and spills readily available. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storage and handling recommendations contained within this SDS.

Conditions for safe storage, including any incompatibilities

Suitable container	 Packing as supplied by manufacturer. Plastic containers may only be used if approved for flammable liquid. Check that containers are clearly labelled and free from leaks. Manufactured product that requires stirring before use and having a viscosity of at least 20 cSt (25 deg. C): (i) Removable head packaging; (ii) Cans with friction closures and (iii) low pressure tubes and cartridges may be used.
Storage incompatibility	



Х - Must not be stored together

 May be stored together with specific preventions
 May be stored together 0

+

SECTION 8 Exposure controls / personal protection

Control parameters

- Occupational Exposure Limits (OEL)
- INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	-	Peak	Notes
Australia Exposure Standards	xylene	Xylene (o-, m-, p- isomers)	80 ppm / 350 mg/m3	655 n	ng/m3 / 150 ppm	Not Available	Not Available
Australia Exposure Standards	n-butanol	n-Butyl alcohol	Not Available	Not A	vailable	50 ppm / 152 mg/m3	Not Available
Emergency Limits							
Ingredient	Material nam	e			TEEL-1	TEEL-2	TEEL-3
xylene	Xylenes				Not Available	Not Available	Not Available
bisphenol A/ bisphenol A diglycidyl ether polymer	Epoxy resin; (Bisphenol A-Bisphenol A diglycidyl ether polymer)				12 mg/m3	130 mg/m3	790 mg/m3
n-butanol	Butyl alcohol, n-; (n-Butanol)			60 ppm	800 ppm	8000** ppm	
Ingredient	Original IDL	Original IDLH F		Revise	ed IDLH		
xylene	900 ppm	900 ppm		Not Av	ailable		
bisphenol A/ bisphenol A diglycidyl ether polymer	Not Available		Not Av	ailable			
n-butanol	1,400 ppm		Not Av	ailable			

Occupational Exposure Banding					
Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit			
bisphenol A/ bisphenol A diglycidyl ether polymer	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.				

Exposure controls

	Engineering controls are used to remove a hazard or place be highly effective in protecting workers and will typically be The basic types of engineering controls are: Process controls which involve changing the way a job acti Enclosure and/or isolation of emission source which keeps 'adds' and 'removes' air in the work environment. Ventilation ventilation system must match the particular process and cl Employers may need to use multiple types of controls to pre- For flammable liquids and flammable gases, local exhaust equipment should be explosion-resistant. Air contaminants generated in the workplace possess varyi circulating air required to effectively remove the contaminant	e independent of worker interaction vity or process is done to reduce th a selected hazard 'physically' awa n can remove or dilute an air conta hemical or contaminant in use. event employee overexposure. ventilation or a process enclosure of ing 'escape' velocities which, in turn	is to provide this high level of protect he risk. y from the worker and ventilation th minant if designed properly. The de ventilation system may be required.	at strategically sign of a Ventilation
	Type of Contaminant:			Air Speed:
	solvent, vapours, degreasing etc., evaporating from tank (in still air).			0.25-0.5 m/s (50-100 f/min.)
Appropriate engineering controls	aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation)			0.5-1 m/s (100-200 f/min.)
	direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)			1-2.5 m/s (200-500 f/min.)
	Within each range the appropriate value depends on:			
	Lower end of the range	Upper end of the range		
	1: Room air currents minimal or favourable to capture	1: Disturbing room air currents		
	2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of high toxicity		
	3: Intermittent, low production.	3: High production, heavy use		
	4: Large hood or large air mass in motion	4: Small hood-local control only		
	Simple theory shows that air velocity falls rapidly with distar with the square of distance from the extraction point (in sim accordingly, after reference to distance from the contamina 1-2 m/s (200-400 f/min.) for extraction of solvents generate considerations, producing performance deficits within the e factors of 10 or more when extraction systems are installed	ple cases). Therefore the air speer ting source. The air velocity at the d in a tank 2 meters distant from the xtraction apparatus, make it essen	d at the extraction point should be a extraction fan, for example, should he extraction point. Other mechanic	idjusted, be a minimum al
Personal protection				



Eye and face protection

• Safety glasses with side shields.

Chemical goggles.
Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption

	and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]
Skin protection	See Hand protection below
Hands/feet protection	 Normatrial may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other protective opcuprent, to avoid all possible skin contract. Contaminade learber items, such as shoes, bells and watch-bands should be removed and destroyed. The sect break learber items, such as shoes, bells and watch-bands should be removed and destroyed. The exact break through item for subtained should be removed and destroyed. The exact break through item for subtainances, he to obtained from the manufacturer of the grotestine at an oto ecalculated in advance and a hard fuel toroughly. Application of a non-perfumed missuriner is recommended. Subtaining and units. The max therefore is a key element of effective hand care. Gives must only be worn on clean hands. After using gloves, hands should be washed and dired thoroughly. Application of a non-perfumed missuriner is recommended. Subtaining and units. glove hithomss and down through the for glove material, glove hithomss and down through the for subtained from the application. When protonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minuts according to EN 374, ASN2S 2161.10 r national equivalent). When only bief contact is expected, a glove with a protection class of 5 or higher (breakthrough time greater than 250 millions. Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term take. Contaminated gloves should be replaced. So defined in ASTM F-733-80 million. Poor when glove material digrodes For general glogic with a hole concessity a good predictor glove resistance to a specific chemical, as the pereation to the take trequirements at howit
Body protection	See Other protection below
Other protection	 Overalls. PVC Apron. PVC protective suit may be required if exposure severe. Eyewash unit. Ensure there is ready access to a safety shower. Some plastic personal protective equipment (PPE) (e.g. gloves, aprons, overshoes) are not recommended as they may produce static electricity. For large scale or continuous use wear tight-weave non-static clothing (no metallic fasteners, cuffs or pockets). Non sparking safety or conductive footwear should be considered. Conductive footwear describes a boot or shoe with a sole made from a conductive compound chemically bound to the bottom components, for permanent control to electrically ground the foot an shall dissipate static electricity from the body to reduce the possibility of ignition of volatile compounds. Electrical resistance must range between 0 to 500,000 ohms. Conductive shoes should be stored in lockers close to the room in which they are worn. Personnel who have been issued conductive footwear should not wear them from their place of work to their homes and return.

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

Forsberg Clothing Performance Index'.

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

Altex Epoxy Barrier Undercoat Part A

Material	CPI
BUTYL	С
BUTYL/NEOPRENE	C
CPE	С
HYPALON	C
NAT+NEOPR+NITRILE	С
NATURAL RUBBER	С
NATURAL+NEOPRENE	С
NEOPRENE	С
NEOPRENE/NATURAL	C
NITRILE	С
NITRILE+PVC	С
PE	С
PE/EVAL/PE	С
PVA	С
PVC	С
PVDC/PE/PVDC	C
SARANEX-23	С
SARANEX-23 2-PLY	С
TEFLON	С
VITON	С
VITON/CHLOROBUTYL	С
VITON/NEOPRENE	С

* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

* Where the glove is to be used on a short term, casual or infrequent basis, factors such as 'feel' or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance	coloured viscous liquid		
Physical state	Liquid	Relative density (Water = 1)	1.48
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	419
pH (as supplied)	Not Available	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	1148.649
Initial boiling point and boiling range (°C)	129	Molecular weight (g/mol)	Not Available
Flash point (°C)	29	Taste	Not Available
Evaporation rate	0.6 BuAC = 1	Explosive properties	Not Available
Flammability	Flammable.	Oxidising properties	Not Available
Upper Explosive Limit (%)	9	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	1	Volatile Component (%vol)	29
Vapour pressure (kPa)	1.5	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	3.3	VOC g/L	260.10

Type A Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the 'Exposure Standard' (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	A-AUS / Class 1	-	A-PAPR-AUS / Class 1
up to 50 x ES	Air-line*	-	-
up to 100 x ES	-	A-3	-
100+ x ES	-	Air-line**	-

* - Continuous-flow; ** - Continuous-flow or positive pressure demand A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

- Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

SECTION 10 Stability and reactivity

Reactivity	See section 7
Chemical stability	 Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 Toxicological information

Information on toxicological effects

Inhaled	The material is not thought to produce either adverse health effects or irri Directives using animal models). Nevertheless, adverse systemic effects route and good hygiene practice requires that exposure be kept to a mini setting. Inhalation of vapours may cause drowsiness and dizziness. This may be co-ordination, and vertigo. Central nervous system (CNS) depression may include general discomfor effects, slowed reaction time, slurred speech and may progress to uncon may be fatal. Inhalation of dusts, generated by the material, during the course of normal	have been produced following exposure of animals by at least one other mum and that suitable control measures be used in an occupational accompanied by sleepiness, reduced alertness, loss of reflexes, lack of rt, symptoms of giddiness, headache, dizziness, nausea, anaesthetic sciousness. Serious poisonings may result in respiratory depression and		
Ingestion	Swallowing of the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis; serious consequences may result. The material has NOT been classified by EC Directives or other classification systems as 'harmful by ingestion'. This is because of the lack of corroborating animal or human evidence.			
Skin Contact	This material can cause inflammation of the skin on contact in some persons. 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 or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.			
Eye	If applied to the eyes, this material causes severe eye damage.			
Chronic	There has been concern that this material can cause cancer or mutations Skin contact with the material is more likely to cause a sensitisation react Toxic: danger of serious damage to health by prolonged exposure throug This material can cause serious damage if one is exposed to it for long p produce severe defects. Ample evidence exists from experimentation that reduced human fertility	tion in some persons compared to the general population. h inhalation, in contact with skin and if swallowed. eriods. It can be assumed that it contains a substance which can		
Altex Enoxy Barrier Undercoat	ΤΟΧΙCΙΤΥ	IRRITATION		

Altex Epoxy Barrier Undercoat	TOXICITY	IRRITATION	IRRITATION		
Part A	Not Available	Not Available	Not Available		
	TOXICITY	IRRITATION	IRRITATION		
	200 mg/kg ^[2]	Eye (human): 200 ppm irrita	Eye (human): 200 ppm irritant		
	450 mg/kg ^[2]	Eye (rabbit): 5 mg/24h SEV	ERE		
	50 mg/kg ^[2]	Eye (rabbit): 87 mg mild			
xylene	Dermal (rabbit) LD50: >1700 mg/kg ^[2]	Eye: adverse effect observe	Eye: adverse effect observed (irritating) ^[1]		
	Inhalation (rat) LC50: 4994.295 mg/l/4h ^[2]	Skin (rabbit):500 mg/24h me	Skin (rabbit):500 mg/24h moderate		
	Oral (mouse) LD50: 2119 mg/kg ^[2]	Skin: adverse effect observe	Skin: adverse effect observed (irritating) ^[1]		
	Oral (rat) LD50: 3523-8700 mg/kg ^[2]				
	Oral (rat) LD50: 4300 mg/kg ^[2]				
	ΤΟΧΙΟΙΤΥ	IRRITATION			
bisphenol A/ bisphenol A diglycidyl ether polymer	dermal (rat) LD50: >2000 mg/kg ^[2]	Not Available			
	Oral (rat) LD50: >2000 mg/kg ^[2]				
n-butanol	ΤΟΧΙΟΙΤΥ	IRRITATION	DN		
ii-bulanoi	25 mg/kg ^[2]	Eye (human): 50 ppm - irritant			

	Dermal (rabbit) LD50: 3400 mg/kg ^[2]	Eye (rabbit): 1.6 mg-SEVERE			
	Inhalation (rat) LC50: 24 mg/l/4H ^[2]	Eye (rabbit): 24 mg/24h-SEVERE			
	Oral (hamster) LD50: =1200 mg/kg ^[2]	Eye: adverse effect observed (irreversible damage) ^[1]			
	Oral (rat) LD50: 790 mg/kg ^[2]	Skin (rabbit): 405 mg/24h-moderate			
		Skin: adverse effect observed (irritating) ^[1]			
Legend:	1. Value obtained from Europe ECHA Registered a specified data extracted from RTECS - Register of	Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise f Toxic Effect of chemical Substances			
Altex Epoxy Barrier Undercoat Part A	papules, with considerable itching of the back of th on re-exposure. The dermatitis may last longer foll produce sensitization more readily. Animal testing Bisphenol A may have effects similar to female se: damage male reproductive organs and sperm. Glycidyl ethers can cause genetic damage and can Oxiranes (including glycidyl ethers and alkyl oxide: such oxirane is ethyloxirane; data presented here For 1,2-butylene oxide (ethyloxirane): In animal testing, ethyloxirane increased the incide observed in mice chronically exposed via skin. Two oxide), which are also direct-acting alkylating agen Ethylbenzene is readily absorbed when inhaled, sv through urine. It may irritate the skin, eyes and ma	s, and epoxides) share many common characteristics with respect to animal toxicology. One may be taken as representative. ence of tumours of the airways in animals exposed via inhalation. However, tumours were not o structurally related substances, oxirane (ethylene oxide) and methyloxirane (propylene			
XYLENE	Reproductive effector in rats The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to human Evidence of carcinogenicity may be inadequate or				
BISPHENOL A/ BISPHENOL A DIGLYCIDYL ETHER POLYMER	*Hexion MSDS Epikote 1001 No significant acute toxicological data identified in literature search.				
N-BUTANOL	and human experience suggest that n-butanol is m not likely to cause skin sensitization. Warning of ex detected below concentration levels cause irritation Repeat dose toxicity: Animal testing showed temp there was no evidence of chronic toxicity. Reproductive toxicity: Several animal studies indic Developmental toxicity: Se only caused developm Genetic toxicity: Testing shows that BA does not p	orarily reduction in activity and food intake following repeated exposure to BA, but otherwise ate BA does not possess reproductive toxicity, and does not affect fertility. ental changes and toxic effects on the foetus near or at levels that were toxic to the mother.			
Altex Epoxy Barrier Undercoat Part A & BISPHENOL A/ BISPHENOL A DIGLYCIDYL ETHER POLYMER	Contact allergies quickly manifest themselves as a eczema involves a cell-mediated (T lymphocytes) involve antibody-mediated immune reactions. The distribution of the substance and the opportunities distributed can be a more important allergen than a clinical point of view, substances are noteworthy if Animal testing over 13 weeks showed bisphenol A Reproductive and Developmental Toxicity: Animal reproductive and Developmental Toxicity: Animal reproductive effects. Cancer-causing potential: It has been concluded the in humans. Genetic toxicity: Laboratory tests on genetic toxicit Immunotoxicity: Animal testing suggests regular in Consumer exposure: Comsumer exposure to BAD found any evidence of hormonal disruption. The chemical structure of hydroxylated diphenylall. This class of endocrine disruptors that mimic oest BBA egrowth hormone in a thyroid hormone-dependent r suggest that the 4-hydroxyl group of the A-phenyl substituents at the 3,5-positions of the phenyl rings Bisphenols promoted cell proliferation and increass potency, the longer the alkyl substituent at the bridg compound contained two propyl chains at the bridge	This as a group and may not be specific to this product. Sontact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, significance of the contact allergen is not simply determined by its sensitisation potential: the for contact with it are equally important. A weakly sensitising substance which is widely one with stronger sensitising potential with which few individuals come into contact. From a they produce an allergic test reaction in more than 1% of the persons tested. diglycidyl ether (BADGE) caused mild to moderate, chronic, inflammation of the skin. testing showed BADGE given over several months caused reduction in body weight but had r hat bisphenol A diglycidyl ether cannot be classified with respect to its cancer-causing potential ty of BADGE have so far been negative. jections of diluted BADGE may result in sensitization. MGE is almost exclusively from migration of BADGE from can coatings into food. Testing has no kanes or bisphenols consists of two phenolic rings joined together through a bridging carbon. rogens is widely used in industry, particularly in plastics exhibit oestrogenic activity in human breast cancer cell line MCF-7, but there were remarkable exhibite dignificant thyroid hormonal activity towards rat pituitary cell line GH3, which releases manner. However, BPA and several other derivatives did not show such activity. Results ring and the B-phenyl ring of BPA derivatives are required for these hormonal activities, and s and the bridging alkyl moiety markedly influence the activities. ed the synthesis and secretion of cell type-specific proteins. When ranked by proliferative lging carbon. Bisphenols with two hydroxyl groups in the para position and an angular h bonding to the acceptor site of the oestrogen receptor.			
XYLENE & N-BUTANOL	The material may produce severe irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production or vesicles, scaling and thickening of the skin.				
BISPHENOL A/ BISPHENOL A DIGLYCIDYL ETHER POLYMER & N-BUTANOL	known as reactive airways dysfunction syndrome (criteria for diagnosing RADS include the absence	r even years after exposure to the material ends. This may be due to a non-allergic condition (RADS) which can occur after exposure to high levels of highly irritating compound. Main of previous airways disease in a non-atopic individual, with sudden onset of persistent a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible			

airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. On the other hand, industrial bronchitis is a disorder that occurs as a result of exposure due to high concentrations of irritating substance (often particles) and is completely reversible after exposure ceases. The disorder is characterized by difficulty breathing, cough and mucus production.

✔ – Data available to make classification

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 n	ot available or does not fill the criteria for classification

SECTION 12 Ecological information

Altex Epoxy Barrier Undercoat Part A	Endpoint Test Duration (hr) Not Available Not Available		Test Duration (hr)		Species	Value		Source	
				Not Available Not A		vailable Not Available		ailable	
	Endpoint	Test	Duration (hr)	Speci	es		Value		Source
	LC50	96		Fish			2.6mg/L	-	2
xylene	EC50	48		Crusta	acea		1.8mg/L	-	2
	EC50	72		Algae	or other aquatic plants	3	3.2mg/L	-	2
	NOEC	73		Algae	Algae or other aquatic plants		0.44mg/	/L	2
bisphenol A/ bisphenol A	Endpoint Test Duration (hr)		Species Value		Value	Source		•	
diglycidyl ether polymer	Not Available		Not Available		Not Available	Not Available	e	Not Ava	ailable
	Endpoint	Test	Duration (hr)	Specie	25		Value		Source
	LC50	96		Fish		1-376mg/L 2		2	
	EC50	48		Crustacea		1-328mg/L		2	
n-butanol	EC50	96		Algae or other aquatic plants		225mg/L		2	
	EC0	48		Crusta	Crustacea		1-260mg/L		2
	NOEC	504		Crusta	cea		4.1mg/L		2
Legend:					ered Substances - Ecc Ecotox database - Aqua				

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. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
xylene	HIGH (Half-life = 360 days)	LOW (Half-life = 1.83 days)
n-butanol	LOW (Half-life = 54 days)	LOW (Half-life = 3.65 days)

Bioaccumulative potential

Ingredient	Bioaccumulation	
xylene	MEDIUM (BCF = 740)	
n-butanol	LOW (BCF = 0.64)	

Mobility in soil

Ingredient	Mobility
n-butanol	MEDIUM (KOC = 2.443)

SECTION 13 Disposal considerations

Product / Packaging disposal	 Containers may still present a chemical hazard/ danger when empty. Return to supplier for reuse/ recycling if possible. Otherwise: If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill. Where possible retain label warnings and SDS and observe all notices pertaining to the product. Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked. A Hierarchy of Controls seems to be common - the user should investigate: Reduction Recycling Disposal (if all else fails) This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate. D NOT allow wash water from cleaning or process equipment to enter drains. It may be necessary to collect all wash water for treatment before disposal. In all cases disposal to sever may be subject to local laws and regulations and these should be considered first. Where in doubt contact the responsible authority. Recycling wherever possible. Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified. Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or Incineration in a l
	 apparatus (after admixture with suitable combustible material). Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.
	· Decontaminate empty contamers. Observe an abor sareguards until containers are cleaned and destroyed.

SECTION 14 Transport information

Labels Required	
Marine Pollutant	NO
HAZCHEM	•3Y

Land transport (ADG)

UN number	1263				
UN proper shipping name	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)				
Transport hazard class(es)	Class 3 Subrisk Not Applicable				
Packing group	II				
Environmental hazard	Not Applicable				
Special precautions for user	Special provisions163 223 367Limited quantity5 L				

Air transport (ICAO-IATA / DGR)

UN number	1263			
UN proper shipping name	Paint (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base); Paint related material (including paint thinning or reducing compounds)			
	ICAO/IATA Class	3		
Transport hazard class(es)	ICAO / IATA Subrisk	Not Applicable		
	ERG Code	3L		
Packing group	III			
Environmental hazard	Not Applicable			
	Special provisions		A3 A72 A192	
	Cargo Only Packing Instructions		366	
	Cargo Only Maximum Qty / Pack		220 L	
Special precautions for user	Passenger and Cargo Packing Instructions		355	
	Passenger and Cargo Maximum Qty / Pack		60 L	
	Passenger and Cargo Limited Quantity Packing Instructions		Y344	
	Passenger and Cargo Limited Maximum Qty / Pack		10 L	

Sea transport (IMDG-Code / GGVSee)

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

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

SECTION 15 Regulatory information

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

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) -International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Schedule 5 Monographs Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -Schedule 6 bisphenol A/ bisphenol A diglycidyl ether polymer is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -Schedule 5 Australian Inventory of Industrial Chemicals (AIIC) n-butanol 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) -Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -Schedule 6 Schedule 5

Australian Inventory of Industrial Chemicals (AIIC)

National Inventory Status

National Inventory	Status
Australia - AIIC	Yes
Australia - Non-Industrial Use	No (xylene; bisphenol A/ bisphenol A diglycidyl ether polymer; n-butanol)
Canada - DSL	Yes
Canada - NDSL	No (xylene; bisphenol A/ bisphenol A diglycidyl ether polymer; n-butanol)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	No (bisphenol A/ bisphenol A diglycidyl ether polymer)
Japan - ENCS	No (bisphenol A/ bisphenol A diglycidyl ether polymer)
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	No (bisphenol A/ bisphenol A diglycidyl ether polymer)
Vietnam - NCI	Yes
Russia - ARIPS	Yes
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

SECTION 16 Other information

Revision Date	17/11/2020
Initial Date	15/03/2018

SDS Version Summary

Version	Issue Date	Sections Updated
7.21.1.1.1	17/11/2020	Classification, Ingredients

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. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

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 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 Powered by AuthorITe, from Chemwatch.



Altex Epoxy Barrier Undercoat Part B Altex Coatings Ltd

Version No: 6.15

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

Issue Date: **12/04/2021** Print Date: **12/04/2021** S.GHS.NZL.EN

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

Product name	Altex Epoxy Barrier Undercoat Part B
Chemical Name	Not Applicable
Synonyms	Not Available
Proper shipping name	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)
Other means of identification	Not Available

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

Relevant identified uses	Part B of a two pack industrial coating

Details of the supplier of the safety data sheet

Registered company name	Altex Coatings Ltd
Address	91-111 Oropi Road Tauranga 3112 New Zealand
Telephone	+64 7 541 1221
Fax	+64 7 541 1310
Website	www.altexcoatings.com
Email	neil.debenham@carboline.co.nz

Emergency telephone number

Association / Organisation	NZ POISONS (24hr 7 days)	CHEMWATCH EMERGENCY RESPONSE
Emergency telephone numbers	0800 764766	+61 2 9186 1132
Other emergency telephone numbers	Not Available	+64 800 700 112

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

SECTION 2 Hazards identification

Classification of the substance or mixture

Considered a Hazardous Substance according to the criteria of the New Zealand Hazardous Substances New Organisms legislation. Classified as Dangerous Goods for transport purposes.

pulpedee.	
Classification ^[1]	Flammable Liquid Category 3, Acute Toxicity (Dermal) Category 4, Serious Eye Damage/Eye Irritation Category 1, Skin Corrosion/Irritation Category 2, Skin Sensitizer Category 1, Aspiration Hazard Category 1, Carcinogenicity Category 2
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), 6.1E (aspiration), 6.3A, 8.3A, 6.5B (contact), 6.7B

Label elements

Hazard pictogram(s)	
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Hazard statement(s)

Signal word

Danger

That di Giatomoni (G)	
H226	Flammable liquid and vapour.
H312	Harmful in contact with skin.
H318	Causes serious eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H304	May be fatal if swallowed and enters airways.

H351 Suspected of causing cancer.

Precautionary statement(s) Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P280	Wear protective gloves/protective clothing/eye protection/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.
P272	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.
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+P313	IF exposed or concerned: Get medical advice/ attention.
P331	Do NOT induce vomiting.
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.
P333+P313	If skin irritation or rash occurs: 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

Mixtures

CAS No	%[weight]	Name
1330-20-7	60-70	xylene
1477-55-0	1-10	m-xylenediamine
90-72-2	1-10	2.4.6-tris[(dimethylamino)methyl]phenol
71-36-3	1-10	n-butanol

SECTION 4 First aid measures

Description of first aid measures If this product comes in contact with the eves: 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 Eye Contact and lower lids. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Transport to hospital or doctor without delay. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Skin Contact Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation. If fumes, aerosols or combustion products are inhaled remove from contaminated area. Inhalation Other measures are usually unnecessary. + 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. Ingestion 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. Continued...

Continued...

Altex Epoxy Barrier Undercoat Part B

- Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.
- Seek medical advice.
 - Avoid giving milk or oils.
 - Avoid giving alcohol.

Indication of any immediate medical attention and special treatment needed

Any material aspirated during vomiting may produce lung injury. Therefore emesis should not be induced mechanically or pharmacologically. Mechanical means should be used if it is considered necessary to evacuate the stomach contents; these include gastric lavage after endotracheal intubation. If spontaneous vomiting has occurred after ingestion, the patient should be monitored for difficult breathing, as adverse effects of aspiration into the lungs may be delayed up to 48 hours.

SECTION 5 Firefighting measures

Extinguishing media

- Alcohol stable foam.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.
- Water spray or fog Large fires only.

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
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Advice for firefighters

Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. May be violently or explosively reactive. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course. If safe, switch off electrical equipment until vapour fire hazard removed. Use water delivered as a fine spray to control fire and cool adjacent area. Avoid spraying water onto liquid pools. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire.
Fire/Explosion Hazard	 Liquid and vapour are flammable. Moderate fire hazard when exposed to heat or flame. Vapour forms an explosive mixture with air. Moderate explosion hazard when exposed to heat or flame. Vapour may travel a considerable distance to source of ignition. Heating may cause expansion or decomposition leading to violent rupture of containers. On combustion, may emit toxic fumes of carbon monoxide (CO). Combustion products include: carbon monoxide (CO) carbon dioxide (CO2) other pyrolysis products typical of burning organic material.

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	 Remove all ignition sources. Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb small quantities with vermiculite or other absorbent material. Wipe up. Collect residues in a flammable waste container.
Major Spills	 Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. May be violently or explosively reactive. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course. Consider evacuation (or protect in place). No smoking, naked lights or ignition sources. Increase ventilation. Stop leak if safe to do so. Water spray or fog may be used to disperse /absorb vapour. Contain spill with sand, earth or vermiculite. Use only spark-free shovels and explosion proof equipment. Collect recoverable product with sand, earth or vermiculite. Collect solid residues and seal in labelled drums for disposal.

SECTION 7 Handling and storage

Safe handling	 Containers, even those that have been emptied, may contain explosive vapours. Do NOT cut, drill, grind, weld or perform similar operations on or near containers. Contains low boiling substance: Storage in sealed containers may result in pressure buildup causing violent rupture of containers not rated appropriately. Check for bulging containers. Vent periodically Always release caps or seals slowly to ensure slow dissipation of vapours Avoid all personal contact, including inhalation. Wear protective clothing when risk of overexposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has been checked. Avoid generation of static electricity. DO NOT use plastic buckets. Earth all lines and equipment. Use spark-free tools when handling. Avoid physical damage to containers. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers. Work clothes should be laundered separately. Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS. Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions. 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. Store away from incompatible materials in a cool, dry, well-ventilated area. DO NOT store in pits, depressions, basements or areas where vapours may be trapped. No smoking, naked lights, heat or ignition sources. Storage areas should be clearly identified, well illuminated, clear of obstruction and accessible only to trained and authorised personnel - adequate security must be provided so that unauthorised personnel do not have access. Store according to applicable regulations for flammable materials for storage tanks, containers, piping, buildings, rooms, cabinets, allowable quantities and minimum storage distances. Use non-sparking ventilation systems, approved explosion proof equipment and intrinsically safe electrical systems. Have appropriate extinguishing capability in storage area (e.g. portable fire extinguishers - dry chemical, foam or carbon dioxide) and flammable gas detectors. Keep adsorbents for leaks and spills readily available. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storage and handling recommendations contained within this SDS.

Conditions for safe storage, including any incompatibilities

Suitable container	 Packing as supplied by manufacturer. Plastic containers may only be used if approved for flammable liquid. Check that containers are clearly labelled and free from leaks. For low viscosity materials (i) : Drums and jerry cans must be of the non-removable head type. (ii) : Where a can is to be used as an inner package, the can must have a screwed enclosure. Manufactured product that requires stirring before use and having a viscosity of at least 20 cSt (25 deg. C): (i) Removable head packaging; (ii) Cans with friction closures and (iii) low pressure tubes and cartridges may be used.
Storage incompatibility	



- \mathbf{X} Must not be stored together
- ${\bf 0} \quad {\rm May} \ {\rm be \ stored \ together \ with \ specific \ preventions}$
- + May be stored together

SECTION 8 Exposure controls / personal protection

Control parameters

- Occupational Exposure Limits (OEL)
- Not Available
- Emergency Limits

TEEL-1	TEEL-2		TEEL-3	
Not Available	Not Available		Not Available	
6.5 mg/m3	72 mg/m3		430 mg/m3	
60 ppm	800 ppm		8000** ppm	
Original IDLH		Revised IDLH		
900 ppm		Not Available		
Not Available		Not Available		
Not Available		Not Available		
1,400 ppm		Not Available		
Occupational Exposure Band Rating		Occupational Exposure Band Limit		
E		≤ 0.1 ppm		
E		≤ 0.1 ppm		
C > 1 t		> 1 to ≤ 10 parts per r	> 1 to ≤ 10 parts per million (ppm)	
E		≤ 0.1 ppm		
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.				
	Not Available 6.5 mg/m3 60 ppm Original IDLH 900 ppm Not Available Not Available 1,400 ppm Cocupational Exposure Band Rating E E C C E Occupational exposure banding is a process of	Not Available Not Available 6.5 mg/m3 72 mg/m3 60 ppm 800 ppm Original IDLH 900 ppm 900 ppm Not Available 1 Not Available 1 1,400 ppm 1 Occupational Exposure Band Rating E 1 C 1 E 1 C 1 D 1 C 1 C 1 E 1 C 1 E 1 C 1 E 1 C 1 E 1 C 1 E 1 D 1 D 1 D 1 D 1 D 1 D 1 D 1 D 2 D 2 D 3 D 3 <td>Not Available Not Available 6.5 mg/m3 72 mg/m3 60 ppm 800 ppm Original IDLH Revised IDLH 900 ppm Not Available Not Available Not Available Secupational Exposure Band Rating Occupational Expose E ≤ 0.1 ppm C > 1 to ≤ 10 parts per mean E ≤ 0.1 ppm C > 1 to ≤ 10 parts per mean Cocupational exposure banding is a process of assigning chemicals into specific categories or banding is a process of assigning chemicals into specific categories or banding is a process of assigning chemicals into specific categories or banding is a process of assigning chemicals into specific categories or banding is a process of assigning chemicals into specific categories or banding is a process of assigning chemicals into specific categories or banding is a process of assigning chemicals into specific categories or banding is a process of assigning chemicals into specific categories or banding is a process of assigning chemicals into specific categories or banding is a process of assigning chemicals into specific categories or banding is a procesed assigning chemicals into specific categories or ban</td>	Not Available Not Available 6.5 mg/m3 72 mg/m3 60 ppm 800 ppm Original IDLH Revised IDLH 900 ppm Not Available Not Available Not Available Secupational Exposure Band Rating Occupational Expose E ≤ 0.1 ppm C > 1 to ≤ 10 parts per mean E ≤ 0.1 ppm C > 1 to ≤ 10 parts per mean Cocupational exposure banding is a process of assigning chemicals into specific categories or banding is a process of assigning chemicals into specific categories or banding is a process of assigning chemicals into specific categories or banding is a process of assigning chemicals into specific categories or banding is a process of assigning chemicals into specific categories or banding is a process of assigning chemicals into specific categories or banding is a process of assigning chemicals into specific categories or banding is a process of assigning chemicals into specific categories or banding is a process of assigning chemicals into specific categories or banding is a process of assigning chemicals into specific categories or banding is a procesed assigning chemicals into specific categories or ban	

	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard 'physically' away from the worker and ventilation that strategically 'adds' and 'removes' air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure. For flammable liquids and flammable gases, local exhaust ventilation or a process enclosure ventilation system may be required. Ventilation equipment should be explosion-resistant. Air contaminants generated in the workplace possess varying 'escape' velocities which, in turn, determine the 'capture velocities' of fresh circulating air required to effectively remove the contaminant.				
	Type of Contaminant:		Air Speed:		
	solvent, vapours, degreasing etc., evaporating from tank (in still air).				
Appropriate engineering controls	aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation)				
	direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)				
	Within each range the appropriate value depends on:				
	Lower end of the range	Upper end of the range			
	1: Room air currents minimal or favourable to capture	1: Disturbing room air currents			
	2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of high toxicity			
	3: Intermittent, low production.	3: High production, heavy use			
	4: Large hood or large air mass in motion	4: Small hood-local control only			
	Simple theory shows that air velocity falls rapidly with distar with the square of distance from the extraction point (in sim accordingly, after reference to distance from the contaminal 1-2 m/s (200-400 f/min.) for extraction of solvents generate considerations, producing performance deficits within the ex- factors of 10 or more when extraction systems are installed	ple cases). Therefore the air speed at the extraction poi ing source. The air velocity at the extraction fan, for exa d in a tank 2 meters distant from the extraction point. Ot traction apparatus, make it essential that theoretical air	int should be adjusted, ample, should be a minimum c ther mechanical		
Personal protection					
	 Safety glasses with side shields. 				

Chemical goggles.

Eye and face protection

Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in

Altex Epoxy Barrier Undercoat Part B

	their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]
Skin protection	See Hand protection below
Hands/feet protection	 Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber NOTE: The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact. Contaminated leather items, such as shoes, bells and watch-bands should be removed and destroyed. 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. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. The exact break through time for substances has to be oblained from the manufacturer of the protective gloves and has to be observed when making a final choice. Personal hygine is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended. Suitability and variability of glove type is dependent on usage. Important factors in the selection of gloves include: trequency and duration of contact, chemical cost score glove material, glove thickness and detroiting Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent). When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 50 minutes according to EN 374, AS/NZS 2161.1.0 ro national equivalent) is recommended. Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term u
Body protection	See Other protection below
Other protection	 Overalls. PVC Apron. PVC protective suit may be required if exposure severe. Eyewash unit. Ensure there is ready access to a safety shower. Some plastic personal protective equipment (PPE) (e.g. gloves, aprons, overshoes) are not recommended as they may produce static electricity. For large scale or continuous use wear tight-weave non-static clothing (no metallic fasteners, cuffs or pockets). Non sparking safety or conductive footwear should be considered. Conductive footwear describes a boot or shoe with a sole made from a conductive compound chemically bound to the bottom components, for permanent control to electrically ground the foot an shall dissipate static electricity from the body to reduce the possibility of ignition of volatile compounds. Electrical resistance must range between 0 to 500,000 ohms. Conductive shoes should be stored in lockers close to the room in which they are worn. Personnel who have been issued conductive footwear should not wear them from their place of work to their homes and return.

Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

'Forsberg Clothing Performance Index'.

The effect(s) of the following substance(s) are taken into account in the computergenerated selection:

Altex Epoxy Barrier Undercoat Part B	5
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Material	CPI
BUTYL	С
BUTYL/NEOPRENE	С
HYPALON	С
NAT+NEOPR+NITRILE	С
NATURAL RUBBER	С
NATURAL+NEOPRENE	С
NEOPRENE	С

Respiratory protection

Type A Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant. Protection Factors (defined as the ratio of contaminant outside and inside the mask) may also be important.

Required minimum protection factor	Maximum gas/vapour concentration present in air p.p.m. (by volume)	Half-face Respirator	Full-Face Respirator
up to 10	1000	A-AUS / Class1	-
up to 50	1000	-	A-AUS / Class 1
up to 50	5000	Airline *	-
up to 100	5000	-	A-2

NEOPRENE/NATURAL	С
NITRILE	С
NITRILE+PVC	С
PE	С
PE/EVAL/PE	С
PVA	С
PVC	С
PVDC/PE/PVDC	С
TEFLON	С
VITON	С

* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

* Where the glove is to be used on a short term, casual or infrequent basis, factors such as 'feel' or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

up to 100	10000	-	A-3
100+			Airline**

* - Continuous Flow ** - Continuous-flow or positive pressure demand A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

- Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

Appearance	amber liquid		
Physical state	Liquid	Relative density (Water= 1)	0.91
	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	482
pH (as supplied)	Not Available	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	120.88
Initial boiling point and boiling range (°C)	134	Molecular weight (g/mol)	Not Available
Flash point (°C)	26		
Evaporation rate	0.7 BuAC = 1	Explosive properties	Not Available
Flammability	Flammable.	Oxidising properties	Not Available
Upper Explosive Limit (%)	8.1	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	1.1	Volatile Component (%vol)	69
Vapour pressure (kPa)	0.8		
Solubility in water	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	3.59	VOC g/L	616.90

SECTION 10 Stability and reactivity

Reactivity	See section 7
Chemical stability	 Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 Toxicological information

Information on toxicological effects

Inhaled The material is not thought to produce either adverse health effects or irritation of the respiratory tract following inhalation (as classified by EC Directives using animal models). Nevertheless, adverse systemic effects have been produced following exposure of animals by at least one other route and good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.

	Inhalation hazard is increased at higher temperatures. Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo. Inhalation of high concentrations of gas/vapour causes lung irritation with coughing and nausea, central nervous depression with headache and dizziness, slowing of reflexes, fatigue and inco-ordination. Central nervous system (CNS) depression may include general discomfort, symptoms of giddiness, headache, dizziness, nausea, anaesthetic effects, slowed reaction time, slurred speech and may progress to unconsciousness. Serious poisonings may result in respiratory depression and may be fatal.
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 into the lungs with the risk of chemical pneumonitis; serious consequences may result. Not a likely route of entry into the body in commercial or industrial environments. The liquid may produce considerable gastrointestinal discomfort and be harmful or toxic if swallowed.
Skin Contact	Skin contact with the material may be harmful; systemic effects may result following absorption. 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 or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected. There is some evidence to suggest that the material may cause mild but significant inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterised by redness, swelling and blistering.
Eye	If applied to the eyes, this material causes severe eye damage.
Chronic	There has been concern that this material can cause cancer or mutations, but there is not enough data to make an assessment. Repeated or long-term occupational exposure is likely to produce cumulative health effects involving organs or biochemical systems. Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population. Ample evidence exists from experimentation that reduced human fertility is directly caused by exposure to the material.

	тохісіту		IRRITATION		
Altex Epoxy Barrier Undercoat Part B	Not Available		Not Available		
	Not Available		Not Available		
	TOXICITY		IRRITATION		
	Dermal (rabbit) LD50: >1700 mg/kg ^[2]		Eye (human): 200 ppm irritant		
	Inhalation (rat) LC50: 4994.295 mg/l/4h ^[2]		Eye (rabbit): 5 mg/24h SEVERE		
xylene	Oral (mouse) LD50: 2119 mg/kg ^[2]		Eye (rabbit): 87 mg mild		
	Oral (rat) LD50: 3523-8700 mg/kg ^[2]		Eye: adverse effect observed (irritating) ^[1]		
	Oral (rat) LD50: 4300 mg/kg ^[2]		Skin (rabbit):500 mg/24h moderate		
			Skin: adverse effect observed (irritating) ^[1]		
	ΤΟΧΙΟΙΤΥ		IRRITATION		
	Dermal (rabbit) LD50: ~2000 mg/kg ^[2]		Eye (rabbit): 0.05 mg/24h SEVERE		
m-xylenediamine	Inhalation(Rat) LC50; 0.8 mg//4h ^[1]		Skin (rabbit): 0.75 mg/24h SEVERE		
	Oral(Rat) LD50; >200 mg/kg ^[1]				
	TOXICITY	IRRITA	TION		
	Inhalation (rat) LC50: >0.125 mg/l/1hr.] ^[2]	Eye (rat	bbit): 0.05 mg/24h - SEVERE		
2,4,6- tris[(dimethylamino)methyl]phenol	Oral (rat) LD50: 1200 mg/kg ^[2]	Eye: ad	verse effect observed (irreversible damage) ^[1]		
		Skin (ra	rabbit): 2 mg/24h - SEVERE		
		Skin: ac	adverse effect observed (corrosive) ^[1]		
	TOXICITY	IRRITATIO	DN		
	Dermal (rabbit) LD50: 3400 mg/kg ^[2]	Eye (huma	n): 50 ppm - irritant		
	Inhalation (rat) LC50: 24 mg/l/4H ^[2]	Eye (rabbit): 1.6 mg-SEVERE		
n-butanol	Oral (hamster) LD50: =1200 mg/kg ^[2] Eye (rabbit)): 24 mg/24h-SEVERE		
	Oral (rat) LD50: 790 mg/kg ^[2]	Eye: adver	se effect observed (irreversible damage) ^[1]		
		Skin (rabbi	t): 405 mg/24h-moderate		
		Skin: adver	rse effect observed (irritating) ^[1]		
			ity 2.* Value obtained from manufacturer's SDS. Unless otherwise		
sp	specified data extracted from RTECS - Register of Toxic Effect of chemical Substances				

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 n	ot available or does not fill the criteria for classification

Data available to make classification

SECTION 12 Ecological information

Altex Epoxy Barrier Undercoat	Endpoint	Test Duration (hr)	Species	Value	Sou	rce
Part B	Not Available	Not Available	Not Available	Not Available	Not	Available
	Endpoint	Test Duration (hr)	Species		Value	Source
	EC50	48	Crustacea		1.8mg/l	2
xylene	LC50	96	Fish		2.6mg/l	2
	EC50	72	Algae or other aquatic pla	nts	4.6mg/l	2
	EC50(ECx)	Not Reported	Fish		0.017mg/L	4
	Endpoint	Test Duration (hr)	Species		Value	Source
	BCF	1008	Fish		<0.3	7
	EC50	48	Crustacea		15.2mg/l	2
m-xylenediamine	LC50	96	Fish		75mg/l	2
	EC50	72	Algae or other aquatic p	Algae or other aquatic plants 12r		2
	NOEC(ECx)	504	Crustacea 4.7mg/l		4.7mg/l	2
	Endpoint	Test Duration (hr)	Species		Value	Source
2,4,6-	EC50(ECx)	72	Algae or other aquatic pl	lants	2.8mg/l	2
(dimethylamino)methyl]phenol	LC50	96	Fish	Fish		2
	EC50	72	Algae or other aquatic plants 2.		2.8mg/l	2
	Endpoint	Test Duration (hr)	Species		Value	Source
	EC50	96	Algae or other aquatic plan	nts	225mg/l	2
	NOEC(ECx)	504	Crustacea		4.1mg/l	2
n-butanol	EC50	48	Crustacea		>500mg/l	1
	LC50	96	Fish		100-500mg/l	4
	EC50	72	Algae or other aquatic plan	nts	>500mg/l	1

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. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

When spilled this product may act as a typical oil, causing a film, sheen, emulsion or sludge at or beneath the surface of the body of water. The oil film on water surface may physically affect the aquatic organisms, due to the interruption of the

oxygen transfer between the air and the water

Oils of any kind can cause:

+ drowning of water-fowl due to lack of buoyancy, loss of insulating capacity of feathers, starvation and vulnerability to predators due to lack of mobility

Iethal effects on fish by coating gill surfaces, preventing respiration
 asphyxiation of benthic life forms when floating masses become engaged with surface debris and settle on the bottom and

adverse aesthetic effects of fouled shoreline and beaches

In case of accidental releases on the soil, a fine film is formed on the soil, which prevents the plant respiration process and the soil particle saturation. It may cause deep water infestation

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
xylene	HIGH (Half-life = 360 days)	LOW (Half-life = 1.83 days)
m-xylenediamine	HIGH	HIGH
2,4,6- tris[(dimethylamino)methyl]phenol	HIGH	HIGH
n-butanol	LOW (Half-life = 54 days)	LOW (Half-life = 3.65 days)

Bioaccumulative potential

Ingredient	Bioaccumulation
xylene	MEDIUM (BCF = 740)
m-xylenediamine	LOW (BCF = 2.7)
2,4,6- tris[(dimethylamino)methyl]phenol	LOW (LogKOW = 0.773)
n-butanol	LOW (BCF = 0.64)
Mobility in soil	
Ingredient	Mobility
an and a solid solid s	

m-xylenediamine	LOW (KOC = 914.6)
2,4,6- tris[(dimethylamino)methyl]phenol	LOW (KOC = 15130)
n-butanol	MEDIUM (KOC = 2.443)

SECTION 13 Disposal considerations

Vaste treatment methods	
Product / Packaging disposal	 Containers may still present a chemical hazard/ danger when empty. Return to supplier for reuse/ recycling if possible. Otherwise: If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill. Where possible retain label warnings and SDS and observe all notices pertaining to the product. Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked. A Hierarchy of Controls seems to be common - the user should investigate: Recycling Bisposal (if all else fails) This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate. DO NOT allow wash water from cleaning or process equipment to enter drains. It may be necessary to collect all wash water for treatment before disposal. It may be necessary to collect all wash water for treatment before disposal. It may be necessary to collect all wash water for consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified. Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or Incineration in a licensed apparatus (after admixture with suitable combustible material). Decontaminated, all encycling optiones or consult local or region

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. The package must be disposed according to the manufacturer's directions taking into account the material it is made of. Packages which hazardous content have been appropriately treated and removed may be recycled.

The hazardous substance must only be disposed if it has been treated by a method that changed the characteristics or composition of the substance and it is no longer hazardous. DO NOT deposit the hazardous substance into or onto a landfill or a sewage facility.

Burning the hazardous substance must happen under controlled conditions with no person or place exposed to

(1) a blast overpressure of more than 9 kPa; or

(2) an unsafe level of heat radiation.

The disposed hazardous substance must not come into contact with class 1 or 5 substances.

SECTION 14 Transport information

Labels Required

Marine Pollutant	NO
HAZCHEM	•3Y
HAZCHEM	•3Y

Land transport (UN)

UN number	1263
UN number	126

UN proper shipping name	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)		
Transport hazard class(es)	Class 3 Subrisk Not App	licable	
Packing group	III		
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, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base); Paint related material (including paint thinning or reducing compounds)			
	ICAO/IATA Class	3		
Transport hazard class(es)	ICAO / IATA Subrisk	Not Applicable		
	ERG Code	3L		
Packing group	III			
Environmental hazard	Not Applicable			
	Special provisions		A3 A72 A192	
	Cargo Only Packing Ir	structions	366	
	Cargo Only Maximum Qty / Pack		220 L	
Special precautions for user	Passenger and Cargo Packing Instructions		355	
	Passenger and Cargo Maximum Qty / Pack		60 L	
	Passenger and Cargo Limited Quantity Packing Instructions		Y344	
	Passenger and Cargo	Limited Maximum Qty / Pack	10 L	

Sea transport (IMDG-Code / GGVSee)

UN number	1263		
UN proper shipping name	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)		
Transport hazard class(es)	IMDG Class 3 IMDG Subrisk Not Applicable		
Packing group	II		
Environmental hazard	Not Applicable		
Special precautions for user	EMS NumberF-E , S-ESpecial provisions163 223 367 955Limited Quantities5 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
xylene	Not Available
m-xylenediamine	Not Available
2,4,6- tris[(dimethylamino)methyl]phenol	Not Available
n-butanol	Not Available

Transport in bulk in accordance with the ICG Code

Product name	Ship Type
xylene	Not Available
m-xylenediamine	Not Available
2,4,6- tris[(dimethylamino)methyl]phenol	Not Available
n-butanol	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	Group Standard		
HSR002669	Surface Coatings and Colourants (Flammable, Toxic	Surface Coatings and Colourants (Flammable, Toxic [6.7]) Group Standard 2017		
xylene is found on the fo	llowing regulatory lists			
International Agency for Re Monographs	esearch on Cancer (IARC) - Agents Classified by the IARC	New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data		
New Zealand Approved Ha	azardous Substances with controls	New Zealand Inventory of Chemicals (NZIoC)		
New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals		New Zealand Workplace Exposure Standards (WES)		
m-xylenediamine is foun	d on the following regulatory lists			
New Zealand Inventory of	Chemicals (NZIoC)	New Zealand Workplace Exposure Standards (WES)		
2,4,6-tris[(dimethylamino)methyl]phenol is found on the following regulatory lists			
New Zealand Approved Ha	azardous Substances with controls	New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification		
	Substances and New Organisms (HSNO) Act - Classification	of Chemicals - Classification Data		
of Chemicals		New Zealand Inventory of Chemicals (NZIoC)		
n-butanol is found on the	e following regulatory lists			
New Zealand Approved Ha	azardous Substances with controls	New Zealand Inventory of Chemicals (NZIoC)		
New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals		New Zealand Workplace Exposure Standards (WES)		
New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data				
Hazardous Substance L	ocation			
Subject to the Health and Safety at Work (Hazardous Substances) Regulations 2017.				

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

Certified Handler

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

Class of substance	Quantities
Not Applicable	Not Applicable

Refer Group Standards for further information

Maximum quantities of certain hazardous substances permitted on passenger service vehicles

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

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

Tracking Requirements

Not Applicable

National Inventory Status

National Inventory	Status			
Australia - AIIC / Australia Non-Industrial Use	Yes			
Canada - DSL	Yes			
Canada - NDSL	No (xylene; m-xylenediamine; 2,4,6-tris[(dimethylamino)methyl]phenol; n-butanol)			
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 and are not exempt from listing(see specific ingredients in brackets)			

SECTION 16 Other information

Revision Date	12/04/2021				
Initial Date	20/09/2017				
SDS Version Summary					
Version	Issue Date	Sections Undated			

Version	Issue Date	Sections Updated
5.15.1.1.1	12/04/2021	Acute Health (swallowed), Classification, First Aid (swallowed), Ingredients

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. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

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 Powered by AuthorITe, from Chemwatch.