Resene Paints (Australia) Limited

Version No: 10.26

Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements

Chemwatch Hazard Alert Code: 3

Issue Date: **12/09/2023** Print Date: **12/09/2023** 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	g 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 manufacturer or supplier of the safety data sheet

Registered company name	Resene Paints (Australia) Limited	Altex Coatings Ltd	
Address	7 Production Avenue, Molendinar Queensland 4214 Australia	91-111 Oropi Road, Tauranga 3112 Tauranga (select) New Zealand	
Telephone	+61 7 55126600	+64 7 541 1221	
Fax	+64 7 541 1310	+64 7 541 1310	
Website	www.resene.com.au	www.altexcoatings.com	
Email Not Available		neil.debenham@altexcoatings.co.nz	

Emergency telephone number

Association / Organisation	AUSTRALIAN POISONS CENTRE	NZ POISONS (24hr 7days)	CHEMWATCH EMERGENCY RESPONSE (24/7)
Emergency telephone numbers	131126	0800 764766	+61 1800 951 288
Other emergency telephone numbers	Not Available	0800 700112	+61 3 9573 3188

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

SECTION 2 Hazards identification

Classification of the substance or mixture

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

Poisons Schedule	Not Applicable		
Classification ^[1]	Flammable Liquids Category 3, Skin Corrosion/Irritation Category 2, Sensitisation (Skin) Category 1, Serious Eye Damage/Eye Irritation Category 1, Specific Target Organ Toxicity - Single Exposure (Narcotic Effects) Category 3, Carcinogenicity Category 2, Specific Target Organ Toxicity - Single Exposure Category 2, Hazardous to the Aquatic Environment Long-Term Hazard Category 4		
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)

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H226	Flammable liquid and vapour.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H336	H336 May cause drowsiness or dizziness.	

H351	Suspected of causing cancer.	
H371	May cause damage to organs.	
H413	May cause long lasting harmful effects to aquatic life.	

Supplementary statement(s)

Not Applicable

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.		
P260	Do not breathe mist/vapours/spray.		
P280	Wear protective gloves, protective clothing, eye protection and face protection.		
P240	Ground and bond container and receiving equipment.		
P241	Use explosion-proof electrical/ventilating/lighting/intrinsically safe equipment.		
P242	Use non-sparking tools.		
P243	Take action to prevent static discharges.		
P273	Avoid release to the environment.		
P264	Wash all exposed external body areas thoroughly after handling.		
P272	Contaminated work clothing should not be allowed out of the workplace.		

Precautionary statement(s) Response

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.	
P310	Immediately call a POISON CENTER/doctor/physician/first aider.	
P370+P378	In case of fire: Use alcohol resistant foam or normal protein foam to extinguish.	
P302+P352	IF ON SKIN: Wash with plenty of water and soap.	
P333+P313	P333+P313 If skin irritation or rash occurs: Get medical advice/attention.	
P362+P364	P362+P364 Take off contaminated clothing and wash it before reuse.	
P303+P361+P353	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 <u>n-butanol</u>	
Legend:	1. Classified by Chernwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * EU IOELVs available	

SECTION 4 First aid measures

Description of first aid measures		
Eye Contact	 If this product comes in contact with eyes: Wash out immediately with water. If irritation continues, seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. 	
Skin Contact	 If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation. 	
Inhalation	 If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary. 	

Continued...

Altex Epoxy Barrier Undercoat Part A

Ingestion	 If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus. If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Seek medical advice. Avoid giving milk or oils. Avoid giving alcohol.
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Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 Firefighting measures

Extinguishing media

- Alcohol stable foam.
- 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) aldehydes other pyrolysis products typical of burning organic material.
HAZCHEM	•3Y

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	 Remove all ignition sources. 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

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 est, 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. Ob serve 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, allowabl 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	



- X Must not be stored together
- 0 May be stored together with specific preventions
- + May be stored together

Note: Depending on other risk factors, compatibility assessment based on the table above may not be relevant to storage situations, particularly where large volumes of dangerous goods are stored and handled. Reference should be made to the Safety Data Sheets for each substance or article and risks assessed accordingly.

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 mg/m3 / 150 ppm	Not Available	Not Available
Australia Exposure Standards	n-butanol	n-Butyl alcohol	Not Available	Not Available	50 ppm / 152 mg/m3	Not Available
Emergency Limits						
Ingredient	TEEL-1		TEEL-2		TEEL-3	
xylene	Not Available		Not Available		Not Available	
bisphenol A/ bisphenol A diglycidyl ether polymer	12 mg/m3		130 mg/m3 800 ppm		790 mg/m3 8000** ppm	
n-butanol	60 ppm					
Ingredient	Original IDLH	Original IDLH		Revised IDLH		
xylene	900 ppm	900 ppm		Not Available		
bisphenol A/ bisphenol A diglycidyl ether polymer	Not Available			Not Available		
n-butanol	1,400 ppm			Not Available		

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 pri- 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 t 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 ng 'escape' velocities which, in tur	ns to provide this high level of protect he risk. y from the worker and ventilation the aminant if designed properly. The de ventilation system may be required.	ttion. 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.)
	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.)
Appropriate engineering controls	Within each range the appropriate value depends on:		1	
	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 · Adequate ventilation is typically taken to be that which lim room or enclosure containing the dangerous substance. · Ventilation for plant and machinery is normally considered potentially be present to no more than 25% of the LEL. How safeguards are provided to prevent the formation of a haza shutdown of the process might be used together with maint turbine enclosures. · Temporary exhaust ventilation systems may be provided f or other confined spaces or in an emergency after a release atmosphere should be continuously monitored to ensure th space, the ventilation should ensure that the concentration provision of suitable breathing apparatus)	ple cases). Therefore the air speet ting source. The air velocity at the d in a tank 2 meters distant from the xtraction apparatus, make it esser l or used. Its the average concentration to no adequate if it limits the average of vever, an increase up to a maximu rdous explosive atmosphere. For taining or increasing the exhaust v for non-routine higher-risk activities e. The work procedures for such a at ventilation is adequate and the	d at the extraction point should be a extraction fan, for example, should he extraction point. Other mechanica tial that theoretical air velocities are o more than 25% of the LEL within the concentration of any dangerous subs im 50% LEL can be acceptable whe example, gas detectors linked to em entilation on solvent evaporating over s, such as cleaning, repair or mainte civities should be carefully consider area remains safe. Where workers we	djusted, be a minimum of al multiplied by ne building, tance that might re additional ergency ens and gas nance in tanks red The vill enter the

Individual protection measures, such as personal protective equipment		
Eye and face protection	 Safety glasses with side shields. Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent] 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]. 	
Skin protection	See Hand protection below	
Hands/feet protection	 NorTE: 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. Contaminade ladaet items: excit as shoes, belts and watch-bands should be removed and destroyed. The sected took it as preparation of several substances, the to be obtained from the manufacture of the glove material can not be calculated in advance and has therefore to be checked prior to the application. The exact brack through time for substances has to be obtained from the manufacture of the protective gloves and has to be observed when making a final choice. Penncal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dire forought, Application of a non-perfumed molecular is recommended. Subability and other peti s dependent on usage. Important factors in the selection of gloves include: entitial resistance of gloves induces. glove thickness and Other protonged or frequently repeated contact may occur: a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN374, ASNZ52 161.1 or national equivalent). When protonged or frequently repeated contact may occur: a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN374, ASNZ52 161.1 or national equivalent) is recommended. When breakthrough time > 240 min Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use. Contaminated proves and be explored. As defined in ASTM F739-Bi in any application, gloves are rated as: Excellent when breakthrough time > 240 min Gove thickness may application, gloves are rated as: Excellent when breakthrough times > 240 mi	
Body protection	See Other protection below	
Other protection	 Overalls. PVC Apron. PVC protective suit may be required if exposure severe. 	

- 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 *computer-generated* selection:

Altex Epoxy Barrier Undercoat Part A

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

Ansell Glove Selection

Glove — In order of recommendation
AlphaTec 02-100
AlphaTec® 38-612
AlphaTec® Solvex® 37-185
AlphaTec® 58-008
AlphaTec® 58-530B
AlphaTec® 58-530W
AlphaTec® Solvex® 37-675
AlphaTec® 15-554
AlphaTec® 58-735
AlphaTec® 79-700

Respiratory protection

Type BAX-P 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	BAX-AUS / Class 1 P2	-	BAX-PAPR-AUS / Class 1 P2
up to 50 x ES	Air-line*	-	-
up to 100 x ES	-	BAX-3 P2	-
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

Information on basic physical and chemical properties

Appearance	coloured viscous liquid		
Physical state	Liquid	Relative density (Water = 1)	1.48
	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 (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	1189.189
Initial boiling point and boiling range (°C)	129	Molecular weight (g/mol)	Not Available
Flash point (°C)	29		
Evaporation rate	0.7 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 (%)	0.9	Volatile Component (%vol)	29
Vapour pressure (kPa)	1.5		
Solubility in water	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	3.3	VOC g/L	447.85

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	e 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 of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo. 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. Inhalation of dusts, generated by the material, during the course of normal handling, may be harmful.
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	Skin contact with the material is more likely to caus Toxic: danger of serious damage to health by prolo This material can cause serious damage if one is e produce severe defects. Ample evidence exists from experimentation that re	nged exposure through inhalation, in conta exposed to it for long periods. It can be ass	c compared to the general population. act with skin and if swallowed. umed that it contains a substance which can		
Alter Energy Parties Undergoot	ΤΟΧΙΟΙΤΥ	IRRITATION			
Altex Epoxy Barrier Undercoat Part A	Not Available	Not Available			
	TOXICITY Dermal (rabbit) LD50: >1700 mg/kg ^[2]	IRRITATION Eye (human): 200 ppm	irritant		
	Inhalation(Rat) LC50: 5000 ppm4h ^[2]		ye (rabbit): 5 mg/24h SEVERE		
xylene	Oral (Mouse) LD50; 2119 mg/kg ^[2]	Eye (rabbit): 87 mg mil			
Xyiene		Eye: adverse effect ob			
		Skin (rabbit):500 mg/24			
		Skin: adverse effect ob			
	ΤΟΧΙCΙΤΥ		IRRITATION		
bisphenol A/ bisphenol A diglycidyl ether polymer	dermal (rat) LD50: >2000 mg/kg ^[2]		Not Available		
	Oral (Rat) LD50: >2000 mg/kg ^[2]				
	τοχιςιτγ				
	Dermal (rabbit) LD50: 3400 mg/kg ^[2]	IRRITATION Eye (human): 50 ppm - irritant			
	Inhalation(Rat) LC50: 8000 ppm4h ^[2]	Eye (rabit): 1.6 mg-SEVERE			
n-butanol	Oral (Rat) LD50: 790 mg/kg ^[2]	Eye (rabbit): 24 mg/24h-SEVERE			
II-Butanoi		Eye: adverse effect observed (irreversible damage) ^[1]			
			Skin (rabbit): 405 mg/24h-moderate		
		Skin: adverse effect observed (i			
			0,		
Legend:	 Value obtained from Europe ECHA Registered S specified data extracted from RTECS - Register of 		ed from manufacturer's SDS. Unless otherwise		
Legend:		Toxic Effect of chemical Substances uce hormone like effects, seemingly as a re- receptors) ding agent: d receptors) are so named because of sec- rmones. The ERR family have been demo fecting mammalian physiology in the heart nal roles in diabetes and cancer. The tery exert effects on gene regulation hey also share DNA-binding sites, co-regu function to modulate estrogen signaling pa- ost highly expressed in tissues that prefere testine, and skeletal muscle. ERRalpha ha development, with a possible role in fetal a proid production of post-adrenarche/adult lif ans, are responsible for the androgenic effe so of hair and skin, and mild acne. known; however, a similar protein in mous as a constitutive activator of transcription. T ama BPA as well as its nitrated and chlorin not to the estrogen receptor (ER). BPA bin prent parts of the body may account for var in the placenta, explaining reports of high	esult of binding to estrogen receptor-related guence homology with estrogen receptors but do no nstrated to control energy homeostasis, oxidative , brown adipose tissue, white adipose tissue, lators, and target genes with the conventional thways. entially use fatty acids as energy sources such as is been detected in normal adrenal cortex tissues, i drenal function, in dehydroepiandrosterone fe. DHEA and other adrenal androgens such as accts of adrenarche, such as early pubic and axillary e plays an essential role in placental development There is evidence that bisphenol A functions as an ated metabolites seems to binds strongly to ding to ERR-gamma preserves its basal constitutive iations in bisphenol A effects. For instance, bisphenol A accumulation there		
Altex Epoxy Barrier Undercoat Part A	Specified data extracted from RTECS - Register of The various members of the bisphenol family produ- receptors (ERRs; not to be confused with estrogen A suspected estrogen-related receptors (ERR) binc Estrogen-related receptors (ERR, oestrogen-relate appear to bind estrogens or other tested steroid ho metabolism and mitochondrial biogenesis, while eff placenta, macrophages, and demonstrated addition ERRs bind enhancers throughout the genome whe Although their overall functions remain uncertain, th estrogen receptors ERalpha and ERbeta and may • ERR-alpha has wide tissue distribution but it is me kidney, heart, brown adipose tissue, cerebellum, in which its expression is possibly related to adrenal of (DHEAS) production in adrenarche, and also in ste androstenedione, although relatively weak androge hair growth, adult-type body odor, increased oilines • ERR-beta is a nuclear receptor that behaves a endocrine disruptor by binding strongly to ERRgam ERR-gamma (dissociation constant = 5.5 nM), but activity.Different expression of ERR-gamma in diffe ERR-gamma has been found in high concentration Oxiranes (including glycidyl ethers and alkyl oxides such oxirane is ethyloxirane; data presented here re	Toxic Effect of chemical Substances use hormone like effects, seemingly as a re- receptors) ding agent: d receptors) are so named because of sec- rmones. The ERR family have been demo fecting mammalian physiology in the heart nal roles in diabetes and cancer. where they exert effects on gene regulation hey also share DNA-binding sites, co-regu function to modulate estrogen signaling pa- ost highly expressed in tissues that prefere testine, and skeletal muscle. ERRalpha ha development, with a possible role in fetal a proid production of post-adrenarche/adult lif ens, are responsible for the androgenic effe so of hair and skin, and mild acne. known; however, a similar protein in mous as a constitutive activator of transcription. T ma BPA as well as its nitrated and chlorin not to the estrogen receptor (ER). BPA bin erent parts of the body may account for var in the placenta, explaining reports of high s, and epoxides) share many common chai may be taken as representative.	esult of binding to estrogen receptor-related quence homology with estrogen receptors but do no nstrated to control energy homeostasis, oxidative , brown adipose tissue, white adipose tissue, lators, and target genes with the conventional thways. Initially use fatty acids as energy sources such as is been detected in normal adrenal cortex tissues, idrenal function, in dehydroepiandrosterone fe. DHEA and other adrenal androgens such as acts of adrenarche, such as early pubic and axillary e plays an essential role in placental development 'here is evidence that bisphenol A functions as an ated metabolites seems to binds strongly to ding to ERR-gamma preserves its basal constitutiva iations in bisphenol A effects. For instance, bisphenol A accumulation there racteristics with respect to animal toxicology. One		
Altex Epoxy Barrier Undercoat Part A	specified data extracted from RTECS - Register of The various members of the bisphenol family produ- receptors (ERRs; not to be confused with estrogen A suspected estrogen-related receptors (ERR) bind Estrogen-related receptors (ERR, oestrogen-relate appear to bind estrogens or other tested steroid ho metabolism and mitochondrial biogenesis, while eff placenta, macrophages, and demonstrated additior ERRs bind enhancers throughout the genome whe Although their overall functions remain uncertain, th estrogen receptors ERalpha and ERbeta and may • ERR-alpha has wide tissue distribution but it is mo- kidney, heart, brown adipose tissue, cerebellum, int which its expression is possibly related to adrenal of (DHEAS) production in adrenarche, and also in ste androstenedione, although relatively weak androge hair growth, adult-type body odor, increased oilines • ERR-gamma is a nuclear receptor that behaves a endocrine disruptor by binding strongly to ERRgam ERR-gamma has been found in high concentration Oxiranes (including glycidyl ethers and alkyl oxides such oxirane is ethyloxirane; data presented here r	Toxic Effect of chemical Substances use hormone like effects, seemingly as a re- receptors) ding agent: di receptors) are so named because of sec rmones. The ERR family have been demo fecting mammalian physiology in the heart nal roles in diabetes and cancer. the they exert effects on gene regulation hey also share DNA-binding sites, co-regu function to modulate estrogen signaling pa- ost highly expressed in tissues that preference testine, and skeletal muscle. ERRalpha has development, with a possible role in fetal a troid production of post-adrenarche/adult life ans, are responsible for the androgenic effect so of hair and skin, and mild acne. known; however, a similar protein in mouss as a constitutive activator of transcription. To the astrogen receptor (ER). BPA bin rent parts of the body may account for var- in the placenta, explaining reports of high s, and epoxides) share many common chair may be taken as representative.	esult of binding to estrogen receptor-related guence homology with estrogen receptors but do no nstrated to control energy homeostasis, oxidative , brown adipose tissue, white adipose tissue, lators, and target genes with the conventional thways. entially use fatty acids as energy sources such as is been detected in normal adrenal cortex tissues, drenal function, in dehydroepiandrosterone fe. DHEA and other adrenal androgens such as acts of adrenarche, such as early pubic and axillary e plays an essential role in placental development "here is evidence that bisphenol A functions as an ated metabolites seems to binds strongly to ding to ERR-gamma preserves its basal constitutive isphenol A accumulation there racteristics with respect to animal toxicology. One		
Altex Epoxy Barrier Undercoat Part A Part A Acute Toxicity Skin Irritation/Corrosion	Specified data extracted from RTECS - Register of The various members of the bisphenol family produ- receptors (ERRs; not to be confused with estrogen A suspected estrogen-related receptors (ERR) binc Estrogen-related receptors (ERR, oestrogen-relate appear to bind estrogens or other tested steroid ho metabolism and mitochondrial biogenesis, while eff placenta, macrophages, and demonstrated addition ERRs bind enhancers throughout the genome whe Although their overall functions remain uncertain, th estrogen receptors ERalpha and ERbeta and may • ERR-alpha has wide tissue distribution but it is me kidney, heart, brown adipose tissue, cerebellum, in which its expression is possibly related to adrenal of (DHEAS) production in adrenarche, and also in ste androstenedione, although relatively weak androge hair growth, adult-type body odor, increased oilines • ERR-beta is a nuclear receptor that behaves a endocrine disruptor by binding strongly to ERRgam ERR-gamma (dissociation constant = 5.5 nM), but activity.Different expression of ERR-gamma in diffe ERR-gamma has been found in high concentration Oxiranes (including glycidyl ethers and alkyl oxides such oxirane is ethyloxirane; data presented here re	Toxic Effect of chemical Substances Use hormone like effects, seemingly as a re- receptors) ding agent: d receptors) are so named because of sec- rmones. The ERR family have been demo fecting mammalian physiology in the heart nal roles in diabetes and cancer. re they exert effects on gene regulation hey also share DNA-binding sites, co-regu function to modulate estrogen signaling pa ost highly expressed in tissues that prefere testine, and skeletal muscle. ERRalpha ha development, with a possible role in fetal a roid production of post-adrenarche/adult li rens, are responsible for the androgenic effe ss of hair and skin, and mild acne. known; however, a similar protein in mous is a constitutive activator of transcription. T ima BPA as well as its nitrated and chlorin root to the estrogen receptor (ER). BPA bin erent parts of the body may account for var i in the placenta, explaining reports of high s, and epoxides) share many common chai may be taken as representative.	esult of binding to estrogen receptor-related quence homology with estrogen receptors but do no nstrated to control energy homeostasis, oxidative , brown adipose tissue, white adipose tissue, lators, and target genes with the conventional thways. Initially use fatty acids as energy sources such as is been detected in normal adrenal cortex tissues, idrenal function, in dehydroepiandrosterone fe. DHEA and other adrenal androgens such as acts of adrenarche, such as early pubic and axillary e plays an essential role in placental development 'here is evidence that bisphenol A functions as an ated metabolites seems to binds strongly to ding to ERR-gamma preserves its basal constitutiva iations in bisphenol A effects. For instance, bisphenol A accumulation there racteristics with respect to animal toxicology. One		
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Legend:

X – Data either not available or does not fill the criteria for classification v – Data available to make classification

SECTION 12 Ecological information

Altex Epoxy Barrier Undercoat	Endpoint	Endpoint Test Duration (hr)		Species		Value		Source		
Part A	Not Available		Not Available Not Av		Not Available	Not Available	Not Available		Not Available	
	Endpoint	T	Fest Duration (hr)	Sp	ecies		Value)	Source	
	EC50	7	′2h	Alg	ae or other aquatic pla	ants	4.6m	g/l	2	
xylene	EC50	48h		Crustacea		1.8m	g/l	2		
	LC50	g	96h	Fis	h		2.6m	g/l	2	
	NOEC(ECx)	DEC(ECx) 73h		Alg	Algae or other aquatic plants		0.44r	ng/l	2	
bisphenol A/ bisphenol A	Endpoint		Test Duration (hr)		Species	Value		Source	•	
diglycidyl ether polymer	Not Available		Not Available		Not Available	Not Available)	Not Ava	ailable	
	Endpoint	Te	est Duration (hr)	Spec	ies		Value		Source	
	EC50	72			or other aquatic plant	ts	>500mg/l		1	
	EC50	48	3h	Crust			>500mg/l		1	
n-butanol	EC50	96	δh	Algae	or other aquatic plant	ts	225mg/l		2	
	LC50	96h		Fish		100-500m	ıg/l	4		
	NOEC(ECx)	50)4h	Crustacea 4.		4.1mg/l		2		
Legend:			Toxicity Data 2. Europe	ECHA Regist	ered Substances - Eco				ty 4. US EPA, a 7. METI (Ja	

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 B	Bioaccumulation	
xylene M	MEDIUM (BCF = 740)	
n-butanol L	LOW (BCF = 0.64)	

Mobility in soil

Ingredient	Mobility
n-butanol	MEDIUM (KOC = 2.443)

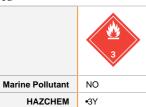
SECTION 13 Disposal considerations

Waste 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: Reduction Reuse 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.

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.
In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
Where in doubt contact the responsible authority.
Removal of bisphenol A (BPA) from aqueous solutions was accomplished by adsorption of enzymatically generated quinone derivatives on
chitosan beads. The use of chitosan in the form of beads was found to be more effective because heterogeneous removal of BPA with chitosan
beads was much faster than homogeneous removal of BPA with chitosan solutions, and the removal efficiency was enhanced by increasing th amount of chitosan beads dispersed in the BPA solutions and BPA was completely removed by quinone adsorption in the presence of chitosan
beads more than 0.10 cm3/cm3. In addition, a variety of bisphenol derivatives were completely or effectively removed by the procedure
constructed in this study, although the enzyme dose or the amount of chitosan beads was further increased as necessary for some of the
bisphenol derivatives used.
M. Suzuki, and E Musashi J Appl Polym Sci, 118(2):721 - 732; October 2010
Recycle 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 licensed
apparatus (after admixture with suitable combustible material).
Decontaminate empty containers. Observe all label safequards until containers are cleaned and destroyed.

SECTION 14 Transport information

Labels Required



Land transport (ADG)

1 ()			
14.1. UN number or ID number	1263		
14.2. 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)		
14.3. Transport hazard class(es)	Class 3 Subsidiary risk Not Applicable		
14.4. Packing group	11		
14.5. Environmental hazard	Not Applicable		
14.6. Special precautions for user	Special provisions163 223 367Limited quantity5 L		

Air transport (ICAO-IATA / DGR)

14.1. UN number	1263			
14.2. UN proper shipping name	Paint related material (including paint thinning or reducing compounds); Paint (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base)			
	ICAO/IATA Class	3		
14.3. Transport hazard class(es)	ICAO / IATA Subsidiary Hazard	Not Applicable		
0.000(00)	ERG Code	3L		
14.4. Packing group	III			
14.5. Environmental hazard	Not Applicable			
	Special provisions		A3 A72 A192	
	Cargo Only Packing Instructions		366	
	Cargo Only Maximum Qty / Pack		220 L	
14.6. Special precautions for user	Passenger and Cargo Packing Instructions		355	
usei	Passenger and Cargo Maximum Qty / Pack		60 L	
	Passenger and Cargo Limited Quantity Packing Instructions		Y344	
	Passenger and Cargo Limited Ma	aximum Qtv / Pack	10 L	

Sea transport (IMDG-Code / GGVSee)

14.1. UN number	1263
14.2. UN proper shipping	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL
name	(including paint thinning or reducing compound)

14.3. Transport hazard class(es)	IMDG Class IMDG Subrisk	3 Not Applicable	
14.4. Packing group	11		
14.5 Environmental hazard	Not Applicable		
14.6. Special precautions for user	EMS Number Special provision Limited Quantitie		

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

Not Applicable

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

Product name	Group
xylene	Not Available
bisphenol A/ bisphenol A diglycidyl ether polymer	Not Available
n-butanol	Not Available

14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
xylene	Not Available
bisphenol A/ bisphenol A diglycidyl ether polymer	Not Available
n-butanol	Not Available

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 - Not Classified as Carcinogenic 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 Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -Chemical Footprint Project - Chemicals of High Concern List 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 Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -Schedule 5 Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSN Schedule 6 Australian Inventory of Industrial Chemicals (AIIC)

National Inventory Status

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

SECTION 16 Other information

Revision Date	12/09/2023
Initial Date	15/03/2018

SDS Version Summary Version Date of Update Sections Updated 9.26 12/09/2023 Toxicological information - Acute Health (inhaled), First Aid measures - Advice to Doctor, Toxicological information - Chronic Health, Hazards identification - Classification, Ecological Information - Environmental, Exposure controls / personal protection -Exposure Standard, Firefighting measures - Fire Fighter (fire/explosion hazard), Firefighting measures - Fire Fighter (fire/explosion hazard), Firefighting measures - Fire Fighter (fire/explosion hazard), Firefighting and storage -Storage (storage incompatibility)

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.



Resene Paints (Australia) Limited

Version No: 7.16

Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements

Chemwatch Hazard Alert Code: 4

Issue Date: **12/09/2023** Print Date: **12/09/2023** 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 B		
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 manufacturer or supplier of the safety data sheet

Registered company name	Resene Paints (Australia) Limited	Altex Coatings Ltd
Address	7 Production Avenue, Molendinar Queensland 4214 Australia	91-111 Oropi Road, Tauranga 3112 Tauranga (select) New Zealand
Telephone	+61 7 55126600	+64 7 541 1221
Fax	+61 7 55126697	Not Available
Website	www.resene.com.au	www.altexcoatings.com
Email	Not Available	neil.debenham@altexcoatings.co.nz

Emergency telephone number

Association / Organisation	AUSTRALIAN POISONS CENTRE	NZ POISONS (24hr 7days)	CHEMWATCH EMERGENCY RESPONSE (24/7)
Emergency telephone numbers	131126	0800 764766	+61 1800 951 288
Other emergency telephone numbers	Not Available	0800 700112	+61 3 9573 3188

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

SECTION 2 Hazards identification

Classification of the substance or mixture

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

Poisons Schedule	Not Applicable
Classification ^[1]	Flammable Liquids Category 3, Acute Toxicity (Oral) Category 4, Acute Toxicity (Dermal) Category 4, Skin Corrosion/Irritation Category 2, Sensitisation (Skin) Category 1, Serious Eye Damage/Eye Irritation Category 1, Acute Toxicity (Inhalation) Category 4, Carcinogenicity Category 2, Reproductive Toxicity Category 2, Specific Target Organ Toxicity - Repeated Exposure 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.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.

H318	Causes serious eye damage.
H332	Harmful if inhaled.
H351	Suspected of causing cancer.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure. (Inhalation)

Supplementary statement(s)

Not Applicable

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.
P260	Do not breathe mist/vapours/spray.
P271	Use only a well-ventilated area.
P280	Wear protective gloves, protective clothing, eye protection and face protection.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/intrinsically safe equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P264	Wash all exposed external body areas thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.

Precautionary statement(s) Response

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.
P310	Immediately call a POISON CENTER/doctor/physician/first aider.
P370+P378	In case of fire: Use alcohol resistant foam or normal protein foam to extinguish.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider if you feel unwell.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P330	Rinse mouth.

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	xvlene
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
Legend:	1. Classified by Chernwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * EU IOELVs available	

SECTION 4 First aid measures

Description of first aid measures		
	If this product comes in contact with the eyes:	
Eye Contact	 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 or hair contact occurs: Quickly but gently, wipe material off skin with a dry, clean cloth. Immediately remove all contaminated clothing, including footwear. Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre. Transport to hospital, or doctor.
Inhalation	 If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor, without delay.
Ingestion	 IF SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY. For advice, contact a Poisons Information Centre or a doctor. Urgent hospital treatment is likely to be needed. In the mean time, qualified first-aid personnel should treat the patient following observation and employing supportive measures as indicated by the patient's condition. If the services of a medical officer or medical doctor are readily available, the patient should be placed in his/her care and a copy of the SDS should be provided. Further action will be the responsibility of the medical specialist. If medical attention is not available on the worksite or surroundings send the patient to a hospital together with a copy of the SDS. Where medical attention is not immediately available or where the patient is more than 15 minutes from a hospital or unless instructed otherwise: INDUCE vomiting with fingers down the back of the throat, ONLY IF CONSCIOUS. Lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. NOTE: Wear a protective glove when inducing vomiting by mechanical means. If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus. 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

Advice	for f	irefig	hters
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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.
HAZCHEM	•3Y

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	 Remove all ignition sources. 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. 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.

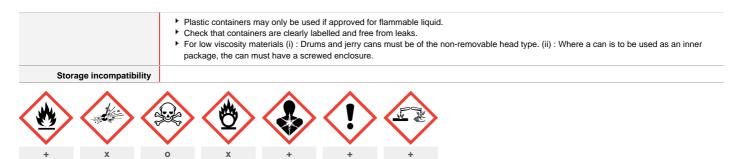
SECTION 7 Handling and storage

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 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.
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. 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.
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X — Must not be stored together

0 — May be stored together with specific preventions

+ — May be stored together

Note: Depending on other risk factors, compatibility assessment based on the table above may not be relevant to storage situations, particularly where large volumes of dangerous goods are stored and handled. Reference should be made to the Safety Data Sheets for each substance or article and risks assessed accordingly.

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 mg/m3 / 150 ppm	Not Available	Not Available
Australia Exposure Standards	m-xylenediamine	m-Xylene-alpha,alpha'- diamine	Not Available	Not Available	0.1 mg/m3	Not Available
Australia Exposure Standards	n-butanol	n-Butyl alcohol	Not Available	Not Available	50 ppm / 152 mg/m3	Not Available

Emergency Limits					
Ingredient	TEEL-1 TEEL-2			TEEL-3	
xylene	Not Available	Not Available		Not Available	
2,4,6- tris[(dimethylamino)methyl]phenol	6.5 mg/m3	72 mg/m3		430 mg/m3	
n-butanol	60 ppm	800 ppm		8000** ppm	
Ingredient	Original IDLH		Revised IDLH		
xylene	900 ppm		Not Available		
m-xylenediamine	Not Available		Not Available		
2,4,6- tris[(dimethylamino)methyl]phenol	Not Available		Not Available		
n-butanol	1,400 ppm		Not Available	Not Available	
Occupational Exposure Banding					
Ingredient	Occupational Exposure Band Rating		Occupational Expos	ure Band Limit	
2,4,6- tris[(dimethylamino)methyl]phenol	C		> 1 to ≤ 10 parts per r	nillion (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

Appropriate engineering controls	CARE: Use of a quantity of this material in confined space or poorly ventilated area, where rapid build up of concould require increased ventilation and/or protective gear Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-dbe highly effective in protecting workers and will typically be independent of worker interactions to provide this here 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 a 'adds' and 'removes' air in the work environment. Ventilation can remove or dilute an air contaminant if designed 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 equipment should be explosion-resistant. Air contaminants generated in the workplace possess varying 'escape' velocities which, in turn, determine the 'c circulating air required to effectively remove the contaminant.	esigned engineering controls can igh level of protection. and ventilation that strategically I properly. The design of a may be required. 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.)

	aerosols, fumes from pouring operations, intermittent cont plating acid fumes, pickling (released at low velocity into z		ansfers, welding, spray drift,	0.5-1 m/s (100-200 f/min.)
	direct spray, spray painting in shallow booths, drum filling, into zone of rapid air motion)	conveyer loading, crusher dusts,	gas discharge (active generation	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		
	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 . Adequate ventilation is typically taken to be that which lim room or enclosure containing the dangerous substance. . Ventilation for plant and machinery is normally considered potentially be present to no more than 25% of the LEL. How safeguards are provided to prevent the formation of a haza shutdown of the process might be used together with maint turbine enclosures. . Temporary exhaust ventilation systems may be provided f or other confined spaces or in an emergency after a release atmosphere should be continuously monitored to ensure th space, the ventilation should ensure that the concentration	ting source. The air velocity at the d in a tank 2 meters distant from the xtraction apparatus, make it essen l or used. its the average concentration to no d adequate if it limits the average concentration to no d adequate if it limits the average concentration to no d adequate if it limits the average concentration to no d adequate if it limits the average concentration to no d adequate if it limits the average concentration to no d adequate if it limits the average concentration to no d adequate if it limits the average concentration to no d adequate if it limits the average concentration to no d adequate if it limits the average concentration to no d adequate if it limits the average concentration to no d at ventilation is adequate and the set of the average concentration is adequated and the set of the average concentration is adequated and the set of the average concentration is adequated and the set of the averag	extraction fan, for example, should ne extraction point. Other mechanic tial that theoretical air velocities are no more than 25% of the LEL within t oncentration of any dangerous subs m 50% LEL can be acceptable whe example, gas detectors linked to err entilation on solvent evaporating ov s, such as cleaning, repair or mainte ctivities should be carefully conside area remains safe. Where workers	be a minimum al e multiplied by he building, stance that mi- ere additional leergency ens and gas enance in tank red The will enter the
Individual protection measures, such as personal protective equipment	provision of suitable breathing apparatus)			
Eye and face protection	 Safety glasses with side shields. Chemical goggles. [AS/NZS 1337.1, EN166 or national Contact lenses may pose a special hazard; soft contact the wearing of lenses or restrictions on use, should be and adsorption for the class of chemicals in use and ar their removal and suitable equipment should be readily remove contact lens as soon as practicable. Lens shou a clean environment only after workers have washed h 	t lenses may absorb and concentr created for each workplace or task a account of injury experience. Mer vavailable. In the event of chemica ald be removed at the first signs of	c. This should include a review of le dical and first-aid personnel should Il exposure, begin eye irrigation imm eye redness or irritation - lens shou	ns absorption be trained in nediately and
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 predisprequipment, to avoid all possible skin contact. Contaminated leather items, such as shoes, belts and 'The selection of suitable gloves does not only depend on the manufacturer. Where the chemical is a preparation of severand has therefore to be checked prior to the application. The exact break through time for substances has to be obtamaking a final choice. Personal hygiene is a key element of effective hand care. Of washed and dried thoroughly. Application of a non-perfume Suitability and durability of glove type is dependent on usage ifrequency and duration of contact, chemical resistance of glove material, glove thickness and dexterity Select gloves tested to a relevant standard (e.g. Europe EN. When prolonged or frequently repeated contact may occuminutes according to EN 374, AS/NZS 2161.10.1 or nationations. When only brief contact is expected, a glove with a protect 374, AS/NZS 2161.10.1 or nationationated gloves should be replaced. As defined in ASTM F-739-96 in any application, gloves area 	osed individuals. Care must be tak watch-bands should be removed a ne material, but also on further mai ral substances, the resistance of th ained from the manufacturer of the Gloves must only be worn on clean d moisturiser is recommended. ge. Important factors in the selection r, a glove with a protection class o al equivalent) is recommended. tion class of 3 or higher (breakthro ended.	Ind destroyed. Ind stroyed. Inde glove material can not be calcula protective gloves and has to be ob hands. After using gloves, hands s on of gloves include: In national equivalent). If 5 or higher (breakthrough time gree pugh time greater than 60 minutes a	facturer to ted in advance served when hould be atter than 240 according to EN

	Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers technical data should always be taken into account to ensure selection of the most appropriate glove for the task. Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example: • Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of. • Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential 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.
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 *computer-generated* selection:

Altex Epoxy Barrier Undercoat Part B

Material	СРІ
TEFLON	А
BUTYL	С
BUTYL/NEOPRENE	С
HYPALON	С
NAT+NEOPR+NITRILE	С
NATURAL RUBBER	С
NATURAL+NEOPRENE	С
NEOPRENE	С
NEOPRENE/NATURAL	С
NITRILE	С
NITRILE+PVC	С
PE	С
PE/EVAL/PE	С
PVA	С
PVC	С
PVDC/PE/PVDC	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

 $\ensuremath{\text{NOTE}}$ 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.

Ansell Glove Selection

Glove — In order of recommendation	
AlphaTec® 38-612	
AlphaTec® Solvex® 37-185	
AlphaTec® 58-008	
AlphaTec® 58-530B	
AlphaTec® 58-530W	
AlphaTec® Solvex® 37-675	
AlphaTeo® 58-735	

Respiratory protection

Type AK-P 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	AK-AUS / Class 1 P2	-	AK-PAPR-AUS / Class 1 P2
up to 50 x ES	Air-line*	-	-
up to 100 x ES	-	AK-3 P2	-
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

AlphaTec® 79-700	
AlphaTec® 53-001	
AlphaTec® 58-005	

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance	amber liquid		
Physical state	Liquid	Relative density (Water = 1)	0.91
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	441
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	120.88
Initial boiling point and boiling range (°C)	133	Molecular weight (g/mol)	Not Available
Flash point (°C)	26	Taste	Not Available
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 (%)	0.8	Volatile Component (%vol)	69
Vapour pressure (kPa)	1.8		Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	3.6	VOC g/L	642.73

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 adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. There is strong evidence to suggest that this material can cause, if inhaled once, serious, irreversible damage of organs. 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. Inhalation of aerosols (mists, fumes), generated by the material during the course of normal handling, may be harmful.
Ingestion	Strong evidence exists that exposure to the material may cause irreversible damage (other than cancer, mutations and birth defects) following a single exposure by swallowing. 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.

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Altex Epoxy Barrier Undercoat Part B

	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. Accidental ingestion of the material may be damaging to the health of the individual.
Skin Contact	There is strong evidence to suggest that this material, on a single contact with skin, can cause serious, irreversible damage of organs. The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting. 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. Skin contact with the material may be harmful; systemic effects may result following absorption.
Eye	If applied to the eyes, this material causes severe eye damage. The liquid produces a high level of eye discomfort and is capable of causing pain and severe conjunctivitis. Corneal injury may develop, with possible permanent impairment of vision, if not promptly and adequately treated.
Chronic	Repeated or long-term occupational exposure is likely to produce cumulative health effects involving organs or biochemical systems. There has been concern that this material can cause cancer or mutations, but there is not enough data to make an assessment. Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population. Ample evidence from experiments exists that there is a suspicion this material directly reduces fertility. Based on experience with animal studies, exposure to the material may result in toxic effects to the development of the foetus, at levels which do not cause significant toxic effects to the mother. Chronic solvent inhalation exposures may result in nervous system impairment and liver and blood changes. [PATTYS]

Altex Epoxy Barrier Undercoat	ΤΟΧΙΟΙΤΥ	IRRITATION
Part B	Not Available	Not Available
	ΤΟΧΙΟΙΤΥ	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/l4h ^[1]	Skin (rabbit): 0.75 mg/24h SEVERE
	Oral (Rat) LD50: >200 mg/kg ^[1]	
	ΤΟΧΙΟΙΤΥ	IRRITATION
	Inhalation (rat) LC50: >0.125 mg/l/1hr.] ^[2]	Eye (rabbit): 0.05 mg/24h - SEVERE
2,4,6-	Oral (rat) LD50: 1200 mg/kg ^[2]	Eye: adverse effect observed (irreversible damage) ^[1]
tris[(dimethylamino)methyl]phenol		Skin (rabbit): 2 mg/24h - SEVERE
		Skin: adverse effect observed (corrosive) ^[1]
		Skin: adverse effect observed (corrosive)[1]
	тохісіту	
	TOXICITY Dermal (rabbit) LD50: 3400 mg/kg ^[2]	Skin: adverse effect observed (corrosive) ^[1] IRRITATION Eye (human): 50 ppm - irritant
	Dermal (rabbit) LD50: 3400 mg/kg ^[2]	IRRITATION
n-butanol		IRRITATION Eye (human): 50 ppm - irritant
n-butanol	Dermal (rabbit) LD50: 3400 mg/kg ^[2] Inhalation (rat) LC50: 24 mg/l/4H ^[2]	IRRITATION Eye (human): 50 ppm - irritant Eye (rabbit): 1.6 mg-SEVERE
n-butanol	Dermal (rabbit) LD50: 3400 mg/kg ^[2] Inhalation (rat) LC50: 24 mg/l/4H ^[2] Oral (hamster) LD50: =1200 mg/kg ^[2]	IRRITATION Eye (human): 50 ppm - irritant Eye (rabbit): 1.6 mg-SEVERE Eye (rabbit): 24 mg/24h-SEVERE
n-butanol	Dermal (rabbit) LD50: 3400 mg/kg ^[2] Inhalation (rat) LC50: 24 mg/l/4H ^[2] Oral (hamster) LD50: =1200 mg/kg ^[2]	IRRITATION Eye (human): 50 ppm - irritant Eye (rabbit): 1.6 mg-SEVERE Eye (rabbit): 24 mg/24h-SEVERE Eye: adverse effect observed (irreversible damage) ^[1]
Legend:	Dermal (rabbit) LD50: 3400 mg/kg ^[2] Inhalation (rat) LC50: 24 mg/l/4H ^[2] Oral (hamster) LD50: =1200 mg/kg ^[2] Oral (rat) LD50: 790 mg/kg ^[2]	IRRITATION Eye (human): 50 ppm - irritant Eye (rabbit): 1.6 mg-SEVERE Eye (rabbit): 24 mg/24h-SEVERE Eye: adverse effect observed (irreversible damage) ^[1] Skin (rabbit): 405 mg/24h-moderate Skin: adverse effect observed (irritating) ^[1] ed Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise
Legend:	Dermal (rabbit) LD50: 3400 mg/kg ^[2] Inhalation (rat) LC50: 24 mg/l/4H ^[2] Oral (hamster) LD50: =1200 mg/kg ^[2] Oral (rat) LD50: 790 mg/kg ^[2]	IRRITATION Eye (human): 50 ppm - irritant Eye (rabbit): 1.6 mg-SEVERE Eye (rabbit): 24 mg/24h-SEVERE Eye: adverse effect observed (irreversible damage) ^[1] Skin (rabbit): 405 mg/24h-moderate Skin: adverse effect observed (irritating) ^[1] ed Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise
Legend: s	Dermal (rabbit) LD50: 3400 mg/kg ^[2] Inhalation (rat) LC50: 24 mg/l/4H ^[2] Oral (hamster) LD50: =1200 mg/kg ^[2] Oral (rat) LD50: 790 mg/kg ^[2]	IRRITATION Eye (human): 50 ppm - irritant Eye (rabbit): 1.6 mg-SEVERE Eye (rabbit): 24 mg/24h-SEVERE Eye: adverse effect observed (irreversible damage) ^[1] Skin (rabbit): 405 mg/24h-moderate Skin: adverse effect observed (irritating) ^[1] ed Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise

Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	✓	STOT - Repeated Exposure	*
Mutagenicity	×	Aspiration Hazard	×

Legend:

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

SECTION 12 Ecological information

Altex Epoxy Barrier Undercoat	Endpoint	Test Duration (hr)		Species	Value		Source	
Part B	Not Available	Not Available		Not Available	Not Availabl	e	Not Avai	lable
	Endpoint	Test Duration (hr)	Sp	ecies		Value		Source
	EC50	72h	Alg	ae or other aquatic pl	ants	4.6mg	/I	2
xylene	EC50	48h	Cru	ustacea		1.8mg	/I	2
	LC50	96h	Fis	h		2.6mg	/I	2
	NOEC(ECx)	73h	Alg	ae or other aquatic pl	ants	0.44m	g/l	2
	Endpoint	Test Duration (hr)	Sp	ecies		Value		Source
	BCF	1008h	Fis	h		<0.3		7
	EC50	72h	Alg	Algae or other aquatic plants		12mg/	Ί	2
m-xylenediamine	EC50	48h	Cru	ustacea		15.2m	g/l	2
	LC50	96h	Fis	h		75mg/	1	2
	NOEC(ECx)	504h	Cru	ustacea		4.7mg	/I	2
							_	
	Endpoint	Test Duration (hr)	Species			/alue	Sour	ce
2,4,6-	EC50		72h Algae or other aquatic pla			2.8mg/l	2	
dimethylamino)methyl]phenol	EC50	48h	Crustac			-100mg/l	2	
	EC50(ECx)	24h	Crustac	ea		80mg/l		vailable
	LC50	96h	Fish			000mg/l	NOT A	vailable
	Endpoint	Test Duration (hr)	Spec	ies		Value		Source
	EC50	72h	Algae	or other aquatic plan	ts	>500mg/l		1
n-butanol	EC50	48h	Crust	acea		>500mg/l		1
II-DULATION	EC50	96h	Algae or other aquatic plants		ts	225mg/l		2
	LC50	96h	Fish			100-500mg/l		4
	NOEC(ECx)	504h	Crust	acea		4.1mg/l		2
				ed Substances - Ecoto				

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)
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
m-xylenediamine	LOW (KOC = 914.6)

Ingredient	Mobility
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: 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. 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. Mhere in doubt contact the responsible authority. Recycle wherever possible. Consult manufacturer for recycling options or consult local laws and regulations and these should be considered first. Where in doubt contact the responsible authority. Recycle wherever possible. Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no su

SECTION 14 Transport information

Labels Required

Marine Pollutant	NO
HAZCHEM	•3Y

Land transport (ADG)

14.1. UN number or ID number	1263	
14.2. 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)	
14.3. Transport hazard class(es)	Class 3 Subsidiary risk Not Applicable	
14.4. Packing group	III	
14.5. Environmental hazard	Not Applicable	
14.6. Special precautions for user	Special provisions163 223 367Limited quantity5 L	

Air transport (ICAO-IATA / DGR)

14.1. UN number	1263		
14.2. UN proper shipping name	Paint related material (including paint thinning or reducing compounds); Paint (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base)		
14.3. Transport hazard class(es)	ICAO/IATA Class ICAO / IATA Subsidiary Hazard ERG Code	3 Not Applicable 3L	
14.4. Packing group	Ш		

14.5. Environmental hazard	Not Applicable	
	Special provisions	A3 A72 A192
	Cargo Only Packing Instructions	366
	Cargo Only Maximum Qty / Pack	220 L
14.6. Special precautions for user	Passenger and Cargo Packing Instructions	355
	Passenger and Cargo Maximum Qty / Pack	60 L
	Passenger and Cargo Limited Quantity Packing Instructions	Y344
	Passenger and Cargo Limited Maximum Qty / Pack	10 L

Sea transport (IMDG-Code / GGVSee)

14.1. UN number	1263		
14.2. 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)		
14.3. Transport hazard class(es)	IMDG Class 3 IMDG Subrisk Not Applicable		
14.4. Packing group	III		
14.5 Environmental hazard	Not Applicable		
14.6. Special precautions for user	EMS NumberF-E, S-ESpecial provisions163 223 367 955Limited Quantities5 L		

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

Not Applicable

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

Product name	Group
xylene	Not Available
m-xylenediamine	Not Available
2,4,6- tris[(dimethylamino)methyl]phenol	Not Available
n-butanol	Not Available

14.7.3. Transport in bulk in accordance with the IGC 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

xylene is found on the following reg	gulatory lists	
Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals		Australian Inventory of Industrial Chemicals (AIIC)
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5 $$		International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic
Australia Standard for the Uniform Sch Schedule 6	heduling of Medicines and Poisons (SUSMP) -	
m-xylenediamine is found on the fo	llowing regulatory lists	
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5		Australian Inventory of Industrial Chemicals (AIIC)
2,4,6-tris[(dimethylamino)methyl]ph	nenol is found on the following regulatory lists	
Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals		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) - Schedule 5		Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6
		Australian Inventory of Industrial Chemicals (AIIC)
National Inventory Status		
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. These ingredients may be exempt or will require registration.

SECTION 16 Other information

Revision Date	12/09/2023
Initial Date	20/09/2017

SDS Version Summary

Version	Date of Update	Sections Updated
6.16	12/09/2023	Toxicological information - Acute Health (eye), Toxicological information - Acute Health (inhaled), Toxicological information - Acute Health (swin), Toxicological information - Acute Health (swallowed), Toxicological information - Chronic Health, Hazards identification - Classification, Exposure controls / personal protection - Engineering Control, Ecological Information - Environmental, Exposure controls / personal protection - Exposure Standard, First Aid measures - First Aid (inhaled), First Aid measures - First Aid (skin), First Aid measures - First Aid (swallowed), Composition / information on ingredients - Ingredients, Exposure controls / personal Protection (Respirator), Identification of the substance / mixture and of the company / undertaking - Supplier Information

Other information

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

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