

## ITW AAMTech Australia

Chernwatch: 5074-41 Version No: 5.1.1.1 Safety Data Sheet according to WHS and ADG requirements Chemwatch Hazard Alert Code: 3

Issue Date: 07/10/2014 Print Date: 30/03/2017 S.GHS.AUS.EN

### SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

### **Product Identifier**

Product name	Permatex PermaPoxy 4 Minute Multi-Metal Epoxy Syringe		
Synonyms	PX84109 Permatex PermaPoxy 4 Minute Multi-Metal Epoxy Syringe, PX84209 Permatex PermaPoxy 4 Minute Multi-Metal Epoxy Tubes		
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains bisphenol A/ diglycidyl ether resin, liquid)		
Other means of identification	Not Available		

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

### Details of the supplier of the safety data sheet

Registered company name	ITW AAMTech Australia	
Address	1-9 Nina Link, Dandenong South VIC 3175 Australia	
Telephone	800 177 989	
Fax	1800 308 556	
Website	www.aamtech.com.au	
Email	info@aamtech.com.au	

#### **Emergency telephone number**

Association / Organisation	Not Available
Emergency telephone numbers	1800 039 008
Other emergency telephone numbers	0800 2436 2255

#### 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	S5		
Classification <sup>[1]</sup>	Skin Corrosion/Irritation Category 1B, Serious Eye Damage Category 1, Skin Sensitizer Category 1		
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HSIS ; 3. Classification drawn from EC Directive 1272/2008 - Annex VI		

GHS label elements			
SIGNAL WORD	DANGER		

#### Hazard statement(s)

H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.

#### Precautionary statement(s) Prevention

P101	If medical advice is needed, have product container or label at hand.	
P102	Keep out of reach of children.	
P103	Read label before use.	
P260	Do not breathe dust/fume/gas/mist/vapours/spray.	

### Precautionary statement(s) Response

P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.		
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.		
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
P310	Immediately call a POISON CENTER or doctor/physician.		

### Precautionary statement(s) Storage

P405	Store locked up.

#### Precautionary statement(s) Disposal

P501 Dispose of contents/container in accordance with local regulations.

#### SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

#### Substances

See section below for composition of Mixtures

#### **Mixtures**

CAS No	%[weight]	Name
		Dual syringe with Resin component comprising
25068-38-6	<60	bisphenol A/ diglycidyl ether resin, liquid
1317-65-3	<20	limestone
7439-89-6	<30	iron
68909-14-8	<5	acrylonitrile/butadiene/neopentyl diglycidyl ether polymer
7440-21-3	<5	silicon
17557-23-2	<5	neopentyl glycol diglycidyl ether
14808-60-7	0.1-1	silica crystalline - quartz
		and Hardener component comprising
Not Available	<60	mercaptan amine blend
1317-65-3	<60	limestone
14808-60-7	0.1-1	silica crystalline - quartz

#### SECTION 4 FIRST AID MEASURES

#### Description of first aid measures

Eye Contact

If this product comes in contact with the eyes: • Wash out immediately with fresh running water.

	<ul> <li>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.</li> <li>Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
Skin Contact	<ul> <li>If skin contact occurs:</li> <li>Immediately remove all contaminated clothing, including footwear.</li> <li>Flush skin and hair with running water (and soap if available).</li> <li>Seek medical attention in event of irritation.</li> </ul>
Inhalation	<ul> <li>If fumes or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>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.</li> <li>Transport to hospital, or doctor.</li> </ul>
Ingestion	<ul> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Seek medical advice.</li> </ul>

#### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

As in all cases of suspected poisoning, follow the ABCDEs of emergency medicine (airway, breathing, circulation, disability, exposure), then the ABCDEs of toxicology (antidotes, basics, change absorption, change distribution, change elimination).

For poisons (where specific treatment regime is absent):

#### BASIC TREATMENT

- \_\_\_\_\_
- Establish a patent airway with suction where necessary.
- Watch for signs of respiratory insufficiency and assist ventilation as necessary.
- Administer oxygen by non-rebreather mask at 10 to 15 L/min.
- Monitor and treat, where necessary, for pulmonary oedema.
- Monitor and treat, where necessary, for shock.
- Anticipate seizures.
- DO NOT use emetics. Where ingestion is suspected rinse mouth and give up to 200 ml water (5 ml/kg recommended) for dilution where patient is able to swallow, has a strong gag reflex and does not drool.

#### ADVANCED TREATMENT

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- · Consider orotracheal or nasotracheal intubation for airway control in unconscious patient or where respiratory arrest has occurred.
- Positive-pressure ventilation using a bag-valve mask might be of use.
- Monitor and treat, where necessary, for arrhythmias.
- + Start an IV D5W TKO. If signs of hypovolaemia are present use lactated Ringers solution. Fluid overload might create complications.
- Drug therapy should be considered for pulmonary oedema.
- + Hypotension with signs of hypovolaemia requires the cautious administration of fluids. Fluid overload might create complications.
- Treat seizures with diazepam.

• Proparacaine hydrochloride should be used to assist eye irrigation.

BRONSTEIN, A.C. and CURRANCE, P.L.

EMERGENCY CARE FOR HAZARDOUS MATERIALS EXPOSURE: 2nd Ed. 1994

#### SECTION 5 FIREFIGHTING MEASURES

#### Extinguishing media

- Water spray or fog.
- Alcohol stable foam.
- Dry chemical powder.
- Carbon dioxide.

#### Special hazards arising from the substrate or mixture

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

### Advice for firefighters

**Fire Fighting** 

• Alert Fire Brigade and tell them location and nature of hazard.

Fire/Explosion Hazard	<ul> <li>Wear full body protective clothing with breathing apparatus.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>Use water delivered as a fine spray to control fire and cool adjacent area.</li> <li>Combustible.</li> <li>Slight fire hazard when exposed to heat or flame.</li> <li>Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>On combustion, may emit toxic fumes of carbon monoxide (CO).</li> <li>Combustion products include: <ul> <li>carbon monoxide (CO)</li> <li>carbon dioxide (CO2)</li> <li>nitrogen oxides (NOx)</li> <li>sulfur oxides (SOx)</li> <li>other pyrolysis products typical of burning organic material.</li> </ul> </li> </ul>
	May emit poisonous fumes.
HAZOHEM	

### 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	<ul> <li>Remove all ignition sources.</li> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> </ul>
Major Spills	<ul> <li>Moderate hazard.</li> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves.</li> </ul>

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

### SECTION 7 HANDLING AND STORAGE

### Precautions for safe handling

Safe handling	<ul> <li>DO NOT allow clothing wet with material to stay in contact with skin</li> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Prevent concentration in hollows and sumps.</li> </ul>
Other information	<ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>No smoking, naked lights or ignition sources.</li> <li>Store in a cool, dry, well-ventilated area.</li> </ul>

### Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>Metal can or drum</li> <li>Packaging as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>
Storage incompatibility	<ul> <li>Avoid cross contamination between the two liquid parts of product (kit).</li> <li>If two part products are mixed or allowed to mix in proportions other than manufacturer's recommendation, polymerisation with gelation and evolution of heat (exotherm) may occur.</li> <li>This excess heat may generate toxic vapour</li> <li>Avoid reaction with amines, mercaptans, strong acids and oxidising agents</li> </ul>

#### 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	limestone	Calcium carbonate	10 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	iron	Manganese, dust & compounds (as Mn)	1 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	iron	Fume (thermally generated) (respirable dust)	2 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	silicon	Silicon	10 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	silica crystalline - quartz	Silica - Crystalline: Quartz (respirable dust) / Quartz (respirable dust)	0.1 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	limestone	Calcium carbonate	10 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	silica crystalline - quartz	Silica - Crystalline: Quartz (respirable dust) / Quartz (respirable dust)	0.1 mg/m3	Not Available	Not Available	Not Available

### EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
bisphenol A/ diglycidyl ether resin, liquid	Epoxy resin includes EPON 1001, 1007, 820, ERL-2795	90 mg/m3	990 mg/m3	5,900 mg/m3
limestone	Limestone; (Calcium carbonate; Dolomite)	45 mg/m3	500 mg/m3	3,000 mg/m3
limestone	Carbonic acid, calcium salt	45 mg/m3	210 mg/m3	1,300 mg/m3
iron	Iron	3.2 mg/m3	35 mg/m3	150 mg/m3
silicon	Silicon	45 mg/m3	100 mg/m3	630 mg/m3
silica crystalline - quartz	Silica, crystalline-quartz; (Silicon dioxide)	0.075 mg/m3	33 mg/m3	200 mg/m3
limestone	Limestone; (Calcium carbonate; Dolomite)	45 mg/m3	500 mg/m3	3,000 mg/m3
limestone	Carbonic acid, calcium salt	45 mg/m3	210 mg/m3	1,300 mg/m3
silica crystalline - quartz	Silica, crystalline-quartz; (Silicon dioxide)	0.075 mg/m3	33 mg/m3	200 mg/m3

Ingredient	Original IDLH	Revised IDLH
bisphenol A/ diglycidyl ether resin, liquid	Not Available	Not Available
limestone	Not Available	Not Available
iron	N.E. mg/m3 / N.E. ppm	500 mg/m3
acrylonitrile/butadiene /neopentyl diglycidyl ether polymer	Not Available	Not Available
silicon	Not Available	Not Available
neopentyl glycol diglycidyl ether	Not Available	Not Available
silica crystalline - quartz	N.E. mg/m3 / N.E. ppm	50 mg/m3
mercaptan amine blend	Not Available	Not Available
limestone	Not Available	Not Available
silica crystalline - quartz	N.E. mg/m3 / N.E. ppm	50 mg/m3

### Exposure controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.
 The basic types of engineering controls are:

Appropriate engineering controls

Process controls which involve changing the way a job activity or process is done to reduce the risk.

	Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.
Personal protection	
Eye and face protection	<ul> <li>Safety glasses with side shields.</li> <li>Chemical goggles.</li> <li>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.</li> </ul>
Skin protection	See Hand protection below
Hands/feet protection	<ul> <li>The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.</li> <li>The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.</li> <li>Personal hygiene is a key element of effective hand care.</li> <li>When handling liquid-grade epoxy resins wear chemically protective gloves (e.g nitrile or nitrile-butatoluene rubber), boots and aprons.</li> <li>DO NOT use cotton or leather (which absorb and concentrate the resin), polyvinyl chloride, rubber or polyethylene gloves (which absorb the resin).</li> <li>DO NOT use barrier creams containing emulsified fats and oils as these may absorb the resin; silicone-based barrier creams should be reviewed prior to use.</li> <li>Wear chemical protective gloves, e.g. PVC.</li> <li>Wear safety footwear or safety gumboots, e.g. Rubber</li> <li>NOTE:</li> <li>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.</li> <li>Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.</li> </ul>
Body protection	See Other protection below
Other protection	<ul> <li>▶ Overalls.</li> <li>▶ P.V.C. apron.</li> <li>▶ Barrier cream.</li> </ul>
Thermal hazards	Not Available

#### **Respiratory protection**

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

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Appearance Resin component: Viscous liquid with a mild odour.|Hardener component: Viscous liquid with a mercaptan odour.

Physical state	Liquid	Relative density (Water = 1)	1.52 Resin; 1.13 Hardener
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Neutral	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	>93	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available

Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Not Available	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	>1	VOC g/L	Not Available

### SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
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	There is some evidence to suggest that the material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. Inhalation of aerosols (mists, fumes), generated by the material during the course of normal handling, may be harmful.		
Ingestion	The material can produce chemical burns within the oral cavity and gastrointestinal tract following ingestion.		
Skin Contact	The material can produce chemical burns following direct conta	ct with the skin.	
Eye	The material can produce chemical burns to the eye following of	direct contact. Vapours or mists may be extremely irritating.	
Chronic	Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population.		
Permatex PermaPoxy 4 Minute Multi-Metal	тохісіту	IRRITATION	
Epoxy Syringe	Not Available	Not Available	
hisphenol A/	тохісітү	IRRITATION	
diglycidyl ether resin,	dermal (rat) LD50: >800 mg/kg <sup>[1]</sup>	Eye (rabbit): 100mg - Mild	
liquid	Oral (rat) LD50: 13447 mg/kg <sup>[1]</sup>		
	тохісіту	IRRITATION	
limestone	Oral (rat) LD50: 6450 mg/kg <sup>[2]</sup>	Skin (rabbit): 500 mg/24h-moderate	
	тохісіту	IRRITATION	
iron	Oral (rat) LD50: 7500 mg/kg <sup>[1]</sup>	Not Available	
acrylonitrile/butadiene	тохісіту	IRRITATION	
/neopentyl diglycidyl ether polymer	Not Available	Not Available	
	тохісітү	IRRITATION	
silicon	Dermal (rabbit) LD50: >5000 mg/kg <sup>[1]</sup>	Not Available	
	Oral (rat) LD50: 3160 mg/kg <sup>[2]</sup>		
	тохісіту	IRRITATION	
neopentyl glycol	Dermal (rabbit) LD50: 2150 mg/kg <sup>[2]</sup>	Skin (human): Sensitiser [Shell]	
	Oral (rat) LD50: 4500 mg/kg <sup>[2]</sup>		

silica crystalline -	TOXICITY	IRRITATION
quartz	Not Available	Not Available
limestone	TOXICITY Oral (rat) LD50: 6450 mg/kg <sup>[2]</sup>	IRRITATION Skin (rabbit): 500 mg/24h-moderate
silica crystalline -	TOXICITY	IRRITATION
quartz	Not Available	Not Available
Legend:	<ol> <li>Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS.</li> <li>Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances</li> </ol>	

BISPHENOL A/ DIGLYCIDYL ETHER RESIN, LIQUID	The chemical structure of hydroxylated diphenylalkanes or bisphenols consists of two phenolic rings joined together through a bridging carbon. This class of endocrine disruptors that mimic oestrogens is widely used in industry, particularly in plastics Bisphenol A (BPA) and some related compounds exhibit oestrogenic activity in human breast cancer cell line MCF-7, but there were remarkable differences in activity. Several derivatives of BPA exhibited significant thyroid hormonal activity towards rat pituitary cell line GH3, which releases growth hormone in a thyroid hormone-dependent manner. However, BPA and several other derivatives did not show such activity. The substance is classified by IARC as Group 3: <b>NOT</b> classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limited in animal testing. In mice, dermal application of bisphenol A diglycidyl ether (BADGE) (1, 10, or 100 mg/kg) for 13 weeks produced mild to moderate chronic active dermatitis. At the high dose, spongiosis and epidermal micro abscess formation were observed. In rats, dermal application of BADGE (10, 100, or 1000 mg/kg) for 13 weeks resulted in a decrease in body weight at the high dose. The no-observable effect level (NOEL) for dermal exposure was 100 mg/kg for both sexes. Foetoxicity has been observed in animal studies Oral (rabbit, female) NOEL 180 mg/kg (teratogenicity; NOEL (maternal 60 mg/kg
SILICON	Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis of RADS include the absence of preceding respiratory disease, in a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. A reversible airflow pattern, on spirometry, with the presence of moderate to severe bronchial hyperreactivity on methacholine challenge testing and the lack of minimal lymphocytic inflammation, without eosinophilia, have also been included in the criteria for diagnosis of RADS. Intraperitoneal injection of silicon produced only minor local trauma and foreign body reaction. Parenterally administered elemental silica is considered biologically inert. Dogs and rats fed 800 mg silicon/kg/day (as the dioxide) for 1 month showed no clinical signs or histological changes. The compound was largely eliminated in the faeces.
NEOPENTYL GLYCOL DIGLYCIDYL ETHER	* Anchor SDS]
BISPHENOL A/ DIGLYCIDYL ETHER RESIN, LIQUID & ACRYLONITRILE/BUTADIENE /NEOPENTYL DIGLYCIDYL ETHER POLYMER & NEOPENTYL GLYCOL DIGLYCIDYL ETHER	The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions.
LIMESTONE	The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.
LIMESTONE & ACRYLONITRILE/BUTADIENE /NEOPENTYL DIGLYCIDYL ETHER POLYMER	The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.
LIMESTONE	Eye (rabbit) 0.75: mg/24h -
LIMESTONE	No evidence of carcinogenic properties. No evidence of mutagenic or
LIMESTONE	teratogenic effects.
ACRYLONITRILE/BUTADIENE /NEOPENTYL DIGLYCIDYL ETHER POLYMER & SILICON	No significant acute toxicological data identified in literature search.

SILICA CRYSTALLINE QUAR	E - 1: CARCINOGENIC TO HUMANS	ONLY: This substance has been cl	assified by the IARC as Group
SILICA CRYSTALLINE QUAR	E - crystalline silica as being carcinoge evidence from epidemiological stud cristobalite. Crystalline silica is also Intermittent exposure produces; for	The International Agency for Research on Cancer (IARC) has classified occupational exposures to <b>respirable</b> (<5 um) crystalline silica as being carcinogenic to humans . This classification is based on what IARC considered sufficient evidence from epidemiological studies of humans for the carcinogenicity of inhaled silica in the forms of quartz and cristobalite. Crystalline silica is also known to cause silicosis, a non-cancerous lung disease. Intermittent exposure produces; focal fibrosis, (pneumoconiosis), cough, dyspnoea, liver tumours.	
Acute Toxicity	0	Carcinogenicity	$\otimes$
Skin Irritation/Corrosion	<b>~</b>	Reproductivity	0
Serious Eye Damage/Irritation	<b>~</b>	STOT - Single Exposure	0
Respiratory or Skin sensitisation	<b>~</b>	STOT - Repeated Exposure	0
Mutagenicity	0	Asniration Hazard	0

🚫 – Data Not Available to make classification

### SECTION 12 ECOLOGICAL INFORMATION

### Toxicity

Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
bisphenol A/ diglycidyl ether resin, liquid	LC50	96	Fish	1.2mg/L	2
bisphenol A/ diglycidyl ether resin, liquid	EC50	72	Algae or other aquatic plants	9.4mg/L	2
bisphenol A/ diglycidyl ether resin, liquid	EC50	24	Crustacea	3.6mg/L	2
bisphenol A/ diglycidyl ether resin, liquid	NOEC	72	Algae or other aquatic plants	2.4mg/L	2
limestone	LC50	96	Fish	>56000mg/L	4
limestone	EC50	72	Algae or other aquatic plants	>14mg/L	2
limestone	NOEC	72	Algae or other aquatic plants	14mg/L	2
iron	LC50	96	Fish	0.05mg/L	2
iron	EC50	96	Algae or other aquatic plants	3.7mg/L	4
iron	BCF	24	Crustacea	0.0000002mg/L	4
iron	EC50	504	Crustacea	4.49mg/L	2
iron	NOEC	504	Fish	0.52mg/L	2
silicon	EC50	72	Algae or other aquatic plants	ca.250mg/L	2
neopentyl glycol diglycidyl ether	LC50	96	Fish	12.318mg/L	3
limestone	LC50	96	Fish	>56000mg/L	4
limestone	EC50	72	Algae or other aquatic plants	>14mg/L	2
limestone	NOEC	72	Algae or other aquatic plants	14mg/L	2
Legend:	Extracted from 1. II 3. EPIWIN Suite V3 ECETOC Aquatic F Vendor Data	JCLID Toxicity Data 2. Euroj 8.12 (QSAR) - Aquatic Toxici lazard Assessment Data 6. i	pe ECHA Registered Substances - ity Data (Estimated) 4. US EPA, Ec NITE (Japan) - Bioconcentration Da	Ecotoxicological Information - otox database - Aquatic Toxic ta 7. METI (Japan) - Bioconce	Aquatic Toxicity ity Data 5. ntration Data 8.

Toxic to aquatic organisms.

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.

May cause long-term adverse effects in the aquatic environment. **DO NOT** discharge into sewer or waterways.

### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
bisphenol A/ diglycidyl ether resin, liquid	HIGH	HIGH
neopentyl glycol diglycidyl ether	нідн	HIGH

### **Bioaccumulative potential**

Ingredient	Bioaccumulation	
bisphenol A/ diglycidyl ether resin, liquid	LOW (LogKOW = 2.6835)	
neopentyl glycol diglycidyl ether	LOW (LogKOW = 0.2342)	

### Mobility in soil

Ingredient	Mobility
bisphenol A/ diglycidyl ether resin, liquid	LOW (KOC = 51.43)
neopentyl glycol diglycidyl ether	LOW (KOC = 10)

### SECTION 13 DISPOSAL CONSIDERATIONS

#### Waste treatment methods

	<ul> <li>Recycle wherever possible or consult manufacturer for recycling options.</li> <li>Consult State Land Waste Authority for disposal.</li> <li>Bury or incinerate residue at an approved site.</li> </ul>
	<ul> <li>Recycle containers if possible, or dispose of in an authorised landfill.</li> </ul>
Product / Packaging	<ul> <li>Containers may still present a chemical hazard/ danger when empty.</li> </ul>
disposal	Return to supplier for reuse/ recycling if possible.
	Otherwise:
	<ul> <li>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.</li> <li>Where possible retain label warnings and SDS and observe all notices pertaining to the product.</li> </ul>

#### **SECTION 14 TRANSPORT INFORMATION**

Labels Required	
Marine Pollutant	
HAZCHEM	•3Z

### Land transport (ADG)

UN number	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains bisphenol A/ diglycidyl ether resin, liquid)
Transport hazard class(es)	Class 9 Subrisk Not Applicable

Packing group	Ш
Environmental hazard	Not Applicable
Special precautions for user	Special provisions274 331 335 375 AU01Limited quantity5 L

Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082 are not subject to this Code when transported by road or rail in; (a) packagings;

(b) IBCs; or

(c) any other receptacle not exceeding 500 kg(L).

- Australian Special Provisions (SP AU01) - ADG Code 7th Ed.

#### Air transport (ICAO-IATA / DGR)

UN number	3082				
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. * (contains bisphenol A/ diglycidyl ether resin, liquid)				
Transport hazard class(es)	ICAO/IATA Class9ICAO / IATA SubriskNot ApplicableERG Code9L				
Packing group	111				
Environmental hazard	Not Applicable				
Special precautions for user	Special provisions		A97 A158 A197		
	Cargo Only Maximum Oty / Pack		450		
	Passenger and Cargo Packing Instructions		964		
	Passenger and Cargo Maximum Qty / Pack		450 L		
	Passenger and Cargo Limited Quantity Packing Instructions		Y964		
	Passenger and Cargo Limited Maximum Qty / Pack		30 kg G		

#### Sea transport (IMDG-Code / GGVSee)

UN number	3082			
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains bisphenol A/ diglycidyl ether resin, liquid)			
Transport hazard class(es)	IMDG Class     9       IMDG Subrisk     Not Applicable			
Packing group	III			
Environmental hazard	Marine Pollutant			
Special precautions for user	EMS NumberF-A, S-FSpecial provisions274 335 969Limited Quantities5 L			

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

Not Applicable

#### SECTION 15 REGULATORY INFORMATION

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

#### BISPHENOL A/ DIGLYCIDYL ETHER RESIN, LIQUID(25068-38-6) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Substances Information System - Consolidated Lists Australia Inventory of Chemical Substances (AICS)

#### LIMESTONE(1317-65-3) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards

IRON(7439-89-6) IS FOUN	ID ON THE FOLLOWING REGULATORY LISTS				
Australia Exposure Standards		Australia Inventory of Chemical Substances (AICS)			
Australia Hazardous Substances Information System - Consolidated Lists					
ACRYLONITRILE/BUTADIENE/NEOPENTYL DIGLYCIDYL ETHER POLYMER(68909-14-8) IS FOUND ON THE FOLLOWING REGULATORY LISTS					
Australia Inventory of Chemical Substances (AICS)					
SILICON(7440-21-3) IS FOUND ON THE FOLLOWING REGULATORY LISTS					
Australia Exposure Standards		Australia Inventory of Chemical Substances (AICS)			
NEOPENTYL GLYCOL DIGLYCIDYL ETHER(17557-23-2) IS FOUND ON THE FOLLOWING REGULATORY LISTS					
Australia Hazardous Substa	ances Information System - Consolidated Lists	Australia Inventory of Chemical Substances (AICS)			
SILICA CRYSTALLINE - QUARTZ(14808-60-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS					
Australia Exposure Standards		Australia Inventory of Chemical Substances (AICS)			
Australia Hazardous Substances Information System - Consolidated Lists					
LIMESTONE(1317-65-3) IS	FOUND ON THE FOLLOWING REGULATORY LIS	тѕ			
Australia Exposure Standar	rds	Australia Inventory of Chemical Substances (AICS)			
SILICA CRYSTALLINE - QU	UARTZ(14808-60-7) IS FOUND ON THE FOLLOWIN	NG REGULATORY LISTS			
Australia Exposure Standards		Australia Inventory of Chemical Substances (AICS)			
Australia Hazardous Substa	ances Information System - Consolidated Lists				
National Inventory	Status				
Australia - AICS	Y				
Canada - DSL	Y				
Canada - NDSL	N (silicon; bisphenol A/ diglycidyl ether resin, liquid; silica crystalline - quartz; neopentyl glycol diglycidyl ether; iron; acrylonitrile/butadiene/neopentyl diglycidyl ether polymer)				
China - IECSC	Y				
Europe - EINEC / ELINCS / NLP	N (acrylonitrile/butadiene/neopentyl diglycidyl ether polymer)				
Japan - ENCS	N (silicon; bisphenol A/ diglycidyl ether resin, liquid; iron; acrylonitrile/butadiene/neopentyl diglycidyl ether polymer)				
Korea - KECI	Y				
New Zealand - NZIoC	Y				
Philippines - PICCS	N (acrylonitrile/butadiene/neopentyl diglycidyl ether polymer)				
USA - TSCA	Υ				
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)				

### **SECTION 16 OTHER INFORMATION**

### Other information

### Ingredients with multiple cas numbers

Name	CAS No
bisphenol A/ diglycidyl ether resin, liquid	25068-38-6, 25085-99-8
silicon	7440-21-3, 152284-21-4, 157383-37-4, 160371-18-6, 17375-03-0, 71536-23-7, 72516-01-9, 72516-02-0, 72516-03-1, 90337-93-2
silica crystalline - quartz	14808-60-7, 122304-48-7, 122304-49-8, 12425-26-2, 1317-79-9, 70594-95-5, 87347-84-0, 308075-07-2
silica crystalline - quartz	14808-60-7, 122304-48-7, 122304-49-8, 12425-26-2, 1317-79-9, 70594-95-5, 87347-84-0, 308075-07-2

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.

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