

## Safety Data Sheet

### PRIMER SN /A

Safety Data Sheet dated: 14/03/2023 - version 4

Date of first edition: 11/03/2020



## Section 1: Identification

### GHS Product identifier

Mixture identification:

Trade name: PRIMER SN /A

Trade code: 900215

### Recommended use of the chemical and restrictions on use

Recommended use: Epoxy resins

Uses advised against: Data not available.

### Supplier's details

Company: MAPEI AUSTRALIA Pty Ltd

180 Viking Drive Wacol QLD 4076 Australia

T. +61 7 32765000 (Mon-Fri 8am to 4.30pm)

F. +61 7 32765076

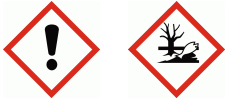
Responsible: sales@mapei.com.au

### Emergency phone number

Australian Poisons Information Centre 24 Hour Service 13 11 26

Police or Fire Brigade 000

## Section 2: Hazard(s) identification



### Classification of the Hazardous chemical

Skin irritation, Category 2

Causes skin irritation.

Eye irritation, Category 2A

Causes serious eye irritation.

Skin Sensitisation, Category 1A

May cause an allergic skin reaction.

Long-term (chronic) aquatic hazard - Category 2

Toxic to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

### GHS label elements, including precautionary statements

#### Pictograms and Signal Words



Warning

#### Hazard statements

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

#### Precautionary statements

P260 Do not breathe mist/vapours/spray.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

P280 Wear protective gloves/clothing and eye/face protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P314 Get medical advice/attention. if you feel unwell.

P321 Specific treatment (see supplementary instructions on this label)

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P337+P313	If eye irritation persists: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.
P501	Dispose of contents/container in accordance with applicable regulations.

**Other hazards which do not result in a classification**

Other Hazards: No other hazards

This product contains crystalline silica (quartz sand). IARC has classified crystalline silica as a Group 1 carcinogen. Both IARC and NTP consider silica as a known human carcinogen. Evidence is based on the chronic and long-term exposure workers have had to respirable sized crystalline silica dust particles. Because this product is in liquid or paste form, it does not pose a dust hazard; therefore, this classification is not relevant. (Note: sanding of the hardened product may create a silica dust hazard)

This preparation contains low molecular weight epoxy resins. Cross sensitisation to other epoxies is possible. Avoid also exposure to spray mist and vapour.

**Section 3: Composition and information on ingredients**

**Substances**

no data available

**Mixtures**

Mixture identification: PRIMER SN /A

**Hazardous components within the meaning of the "Australian Work Health and Safety (WHS)" regulation and related classification:**

Qty	Name	Ident. Numb.	Classification	Registration Number
≥25 - <50 %	bis-[4-(2,3-epoxypropoxy)phenyl]propane	CAS:1675-54-3, 25085-99-8 EC:216-823-5 Index:603-073-00-2	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2A, H319 Aquatic Chronic 2, H411  Specific Concentration Limits: C ≥ 5%: Skin Irrit. 2 H315 C ≥ 5%: Eye Irrit. 2A H319	01-2119456619-26
≥25 - <50 %	free crystalline silica (Ø >10 µ)	CAS:14808-60-7 EC:238-878-4		
≥20 - <25 %	free crystalline silica (Ø <10 µ)	CAS:14808-60-7 EC:238-878-4	STOT RE 1, H372	
≥5 - <10 %	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	CAS:9003-36-5 EC:701-263-0	Skin Irrit. 2, H315; Aquatic Chronic 2, H411; Skin Sens. 1, H317	01-2119454392-40-XXXX
≥2.5 - <5 %	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	CAS:68609-97-2 EC:271-846-8 Index:603-103-00-4	Skin Irrit. 2, H315; Skin Sens. 1B, H317	01-2119485289-22-XXXX
≥1 - <2.5 %	benzyl alcohol	CAS:100-51-6 EC:202-859-9 Index:603-057-00-5	Acute Tox. 4, H332; Acute Tox. 4, H302; Eye Irrit. 2A, H319	01-2119492630-38-XXXX
≥1 - <2.5 %	ethanol; ethyl alcohol	CAS:64-17-5 EC:200-578-6 Index:603-002-00-5	Flam. Liq. 2, H225; Eye Irrit. 2A, H319	01-2119457610-43-xxxx

**Section 4: First-aid measures**

**Description of necessary first-aid measures**

In case of skin contact:

- Immediately take off all contaminated clothing.
- Remove contaminated clothing immediately and dispose of safely.
- After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

- After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.
- Protect uninjured eye.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

### **Symptoms caused by exposure**

Eye irritation

Eye damages

Skin Irritation

Erythema

### **Medical attention and special treatment**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

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## **Section 5: Firefighting measures**

### **Suitable extinguishing media**

None in particular.

Water.

Carbon dioxide (CO<sub>2</sub>).

Extinguishing media which must not be used for safety reasons:

None in particular.

### **Specific hazards arising from the chemical**

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products: no data available

Explosive properties: ==

Oxidizing properties: no data available

### **Special protective equipment and precautions for fire-fighters**

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

### **HazChem Code/Emergency Action code**

•3Z

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## **Section 6: Accidental release measures**

### **Personal precautions, protective equipment and emergency procedures**

Wear personal protection equipment.

Remove persons to safety.

### **Environmental precautions**

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Limit leakages with earth or sand.

### **Methods and material for containment and cleaning up**

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

Retain contaminated washing water and dispose it.

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## **Section 7: Handling and storage**

### **Precautions for safe handling**

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

### **Conditions for safe storage, including any incompatibilities**

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

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## **Section 8: Exposure controls and personal protection**

### **Control parameters – exposure standards, biological monitoring**

**Community Occupational Exposure Limits (OEL)**

	<b>OEL Type</b>	<b>Country</b>	<b>Occupational Exposure Limit</b>	
free crystalline silica ( $\emptyset >10 \mu$ ) CAS: 14808-60-7	ACGIH		Long Term: 0,025 mg/m <sup>3</sup> A2 - Suspected Human Carcinogen;lung cancer;pulmonary fibrosis	
	National	AUSTRALIA	Long Term: 0,05 mg/m <sup>3</sup>	
	National	BELGIUM	Long Term: 0,1 mg/m <sup>3</sup>	
	National	BULGARIA	Long Term: 0,07 mg/m <sup>3</sup>	
	National	CROATIA	Long Term: 0,1 mg/m <sup>3</sup>	
	National	CZECH REPUBLIC	Long Term: 0,1 mg/m <sup>3</sup>	
	National	DENMARK	Long Term: 0,3 mg/m <sup>3</sup> DENMARK, inhalable aerosol inhalable aerosol	
	National	DENMARK	Long Term: 0,1 mg/m <sup>3</sup> DENMARK, respirable aerosol respirable aerosol	
	National	DENMARK	Long Term: 0,3 mg/m <sup>3</sup>	
	National	DENMARK	Long Term: 0,1 mg/m <sup>3</sup>	
	National	ESTONIA	Long Term: 0,1 mg/m <sup>3</sup>	
	National	FINLAND	Long Term: 0,05 mg/m <sup>3</sup>	
	National	FRANCE	Long Term: 0,1 mg/m <sup>3</sup>	
	National	HUNGARY	Long Term: 0,15 mg/m <sup>3</sup>	
	National	LITHUANIA	Long Term: 0,1 mg/m <sup>3</sup>	
	National	NORWAY	Long Term: 0,3 mg/m <sup>3</sup> Totalstøv (total dust); K: Kjemikalier som skal betraktes som kreftfremkallende. (K: Chemicals to be treated as carcinogenic.)	
	ACGIH		Long Term: 0,025 mg/m <sup>3</sup> (R), A2 - Pulm fibrosis, lung cancer	
	National	PORTUGAL	Long Term: 0,025 mg/m <sup>3</sup>	
	National	ROMANIA	Long Term: 0,1 mg/m <sup>3</sup>	
	National	SLOVAKIA	Long Term: 0,1 mg/m <sup>3</sup> ; Short Term: 0,5 mg/m <sup>3</sup>	
	National	SLOVENIA	Long Term: 0,1 mg/m <sup>3</sup>	
	National	SPAIN	Long Term: 0,05 mg/m <sup>3</sup>	
	National	SWEDEN	Long Term: 0,1 mg/m <sup>3</sup>	
	National	SWITZERLAND	Long Term: 0,15 mg/m <sup>3</sup> A	
	free crystalline silica ( $\emptyset <10 \mu$ ) CAS: 14808-60-7	ACGIH		Long Term: 0,025 mg/m <sup>3</sup> A2 - Suspected Human Carcinogen;lung cancer;pulmonary fibrosis
		National	ARGENTINA	Long Term: 0,05 mg/m <sup>3</sup>
		National	AUSTRALIA	Long Term: 0,1 mg/m <sup>3</sup>
National		AUSTRIA	Long Term: 0,15 mg/m <sup>3</sup> A*	
National		BELGIUM	Long Term: 0,1 mg/m <sup>3</sup>	
National		BULGARIA	Long Term: 0,07 mg/m <sup>3</sup>	
National		CROATIA	Long Term: 0,1 mg/m <sup>3</sup>	
National		CZECH REPUBLIC	Long Term: 0,1 mg/m <sup>3</sup>	
National		DENMARK	Long Term: 0,1 mg/m <sup>3</sup> ; Short Term: 0,2 mg/m <sup>3</sup> Respirabel fraktion, respirable fraction E: Stoffet har en EU-grænseværdi. K: Stoffet anses for at kunne være kræftfremkaldende.	
National		DENMARK	Long Term: 0,3 mg/m <sup>3</sup> ; Short Term: 0,6 mg/m <sup>3</sup> Total dust	
National		ESTONIA	Long Term: 0,1 mg/m <sup>3</sup>	
National		FINLAND	Long Term: 0,05 mg/m <sup>3</sup>	

		Respirabel fraktion. Respirable fraction
	National FRANCE	Long Term: 0,1 mg/m <sup>3</sup>
	National HUNGARY	Long Term: 0,15 mg/m <sup>3</sup>
	National ITALY	Long Term: 0,1 mg/m <sup>3</sup>
	National LITHUANIA	Long Term: 0,1 mg/m <sup>3</sup>
	National NORWAY	Long Term: 0,3 mg/m <sup>3</sup> Totalstøv (total dust); K: Kjemikalier som skal betraktes som kreftfremkallende.
	National NORWAY	Long Term: 0,05 mg/m <sup>3</sup> Respirabelt støv (respirable dust); K: Kjemikalier som skal betraktes som kreftfremkallende. G: EU har fastsatt en bindende grenseverdi og/eller anmerkning av stoffet.
	ACGIH	Long Term: 0,025 mg/m <sup>3</sup> (R), A2 - Pulm fibrosis, lung cancer
	National PORTUGAL	Long Term: 0,025 mg/m <sup>3</sup>
	National ROMANIA	Long Term: 0,1 mg/m <sup>3</sup>
	National SLOVAKIA	Long Term: 0,1 mg/m <sup>3</sup> ; Short Term: 0,5 mg/m <sup>3</sup>
	National SLOVENIA	Long Term: 0,1 mg/m <sup>3</sup>
	National SPAIN	Long Term: 0,05 mg/m <sup>3</sup>
	National SWEDEN	Long Term: 0,1 mg/m <sup>3</sup> Respirabel fraktion. Respirable fraction C: Ämnet är cancerframkallande. M: Medicinska kontroller.
benzyl alcohol CAS: 100-51-6	National FINLAND	Long Term: 45 mg/m <sup>3</sup> - 10 ppm
	National POLAND	Long Term: 240 mg/m <sup>3</sup>
	National GERMANY	Long Term: 22 mg/m <sup>3</sup> - 5 ppm
	National CZECH REPUBLIC	Long Term: 40 mg/m <sup>3</sup>
	National LATVIA	Long Term: 5 mg/m <sup>3</sup>
	National CZECH REPUBLIC	Ceiling - Short Term: 80 mg/m <sup>3</sup>
	National BULGARIA	Long Term: 5 mg/m <sup>3</sup>
	National LITHUANIA	Long Term: 5 mg/m <sup>3</sup>
	National SLOVENIA	Long Term: 22 mg/m <sup>3</sup> - 5 ppm; Short Term: 44 mg/m <sup>3</sup> - 10 ppm
ethanol; ethyl alcohol CAS: 64-17-5	OSHA	Long Term: 1900 mg/m <sup>3</sup> - 1000 ppm
	ACGIH	Short Term: 1000 ppm A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans; upper respiratory tract irritation;
	AUS AUSTRALIA	Long Term: 1880 mg/m <sup>3</sup> - 1000 ppm
	National SWEDEN	Long Term: 1000 mg/m <sup>3</sup> - 500 ppm
	National FRANCE	Long Term: 1900 mg/m <sup>3</sup> - 1000 ppm; Short Term: 9500 mg/m <sup>3</sup> - 5000 ppm
	National SPAIN	Short Term: 1910 mg/m <sup>3</sup> - 1000 ppm
	National GREECE	Long Term: 1900 mg/m <sup>3</sup> - 1000 ppm
	National DENMARK	Long Term: 1900 mg/m <sup>3</sup> - 1000 ppm
	National FINLAND	Long Term: 1900 mg/m <sup>3</sup> - 1000 ppm; Short Term: 2500 mg/m <sup>3</sup> - 1300 ppm
	National GERMANY	Long Term: 960 mg/m <sup>3</sup> - 500 ppm
	National PORTUGAL	Long Term: 1000 ppm
	National NORWAY	Long Term: 950 mg/m <sup>3</sup> - 500 ppm; Short Term: 1187,5 mg/m <sup>3</sup> - 625 ppm
	National BELGIUM	Long Term: 1907 mg/m <sup>3</sup> - 1000 ppm
	National CZECH REPUBLIC	Long Term: 1000 mg/m <sup>3</sup>
	National HUNGARY	Long Term: 1900 mg/m <sup>3</sup> ; Short Term: 7600 mg/m <sup>3</sup>
	National ESTONIA	Long Term: 1000 mg/m <sup>3</sup> - 500 ppm; Short Term: 1900 mg/m <sup>3</sup> - 1000 ppm

National LATVIA	Long Term: 1000 mg/m <sup>3</sup>
National CZECH REPUBLIC	Ceiling - Short Term: 3000 mg/m <sup>3</sup>
National SLOVAKIA	Ceiling - Short Term: 1920 mg/m <sup>3</sup>
National SLOVAKIA	Long Term: 960 mg/m <sup>3</sup> - 500 ppm
National SLOVENIA	Long Term: 1900 mg/m <sup>3</sup> - 1000 ppm; Short Term: 7600 mg/m <sup>3</sup> - 4000 ppm
National UNITED KINGDOM	Long Term: 1920 mg/m <sup>3</sup> - 1000 ppm; Short Term: 5760 mg/m <sup>3</sup> - 3000 ppm
National BULGARIA	Long Term: 1000 mg/m <sup>3</sup>
National ROMANIA	Long Term: 1900 mg/m <sup>3</sup> - 1000 ppm; Short Term: 9500 mg/m <sup>3</sup> - 5000 ppm
National LITHUANIA	Long Term: 1000 mg/m <sup>3</sup> - 500 ppm; Short Term: 1900 mg/m <sup>3</sup> - 1000 ppm
National CROATIA	Long Term: 1900 mg/m <sup>3</sup> - 1000 ppm
ACGIH	Short Term: 1000 ppm A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans; upper respiratory tract irritation
National GERMANY	Long Term: 380 mg/m <sup>3</sup> - 200 ppm
National SLOVENIA	Long Term: 960 mg/m <sup>3</sup> - 500 ppm; Short Term: 1920 mg/m <sup>3</sup> - 1000 ppm

### Predicted No Effect Concentration (PNEC) values

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol  
CAS: 9003-36-5

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 10 mg/l  
Exposure Route: Fresh Water; PNEC Limit: 0,003 mg/l  
Exposure Route: Freshwater sediments; PNEC Limit: 0,294 mg/kg  
Exposure Route: Marine water; PNEC Limit: 0,0003 mg/l  
Exposure Route: Marine water sediments; PNEC Limit: 0,0294 mg/kg  
Exposure Route: Soil; PNEC Limit: 0,237 mg/kg

oxirane, mono[(C12-14-alkyloxy)methyl] derivs.  
CAS: 68609-97-2

Exposure Route: Marine water; PNEC Limit: 0,00072 mg/l  
Exposure Route: Fresh Water; PNEC Limit: 0,0072 mg/l  
Exposure Route: Freshwater sediments; PNEC Limit: 66,77 mg/kg  
Exposure Route: Marine water sediments; PNEC Limit: 6,677 mg/kg  
Exposure Route: Soil; PNEC Limit: 80,12 mg/kg  
Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 10 mg/l  
Exposure Route: Fresh Water; PNEC Limit: 1 mg/l

benzyl alcohol  
CAS: 100-51-6

Exposure Route: Marine water; PNEC Limit: 0,1 mg/l  
Exposure Route: Freshwater sediments; PNEC Limit: 5,27 mg/kg  
Exposure Route: Marine water sediments; PNEC Limit: 0,527 mg/kg  
Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 39 mg/l  
Exposure Route: Soil; PNEC Limit: 0,45 mg/kg  
Exposure Route: Intermittent release; PNEC Limit: 2,3 mg/l

### Derived No Effect Level (DNEL) values

benzyl alcohol  
CAS: 100-51-6

Exposure Route: Human Oral; Exposure Frequency: Short Term, systemic effects  
Consumer: 20 mg/kg  
Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects  
Consumer: 4 mg/kg  
Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects  
Worker Industry: 110 mg/m<sup>3</sup>; Consumer: 27 mg/m<sup>3</sup>  
Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects  
Worker Industry: 22 mg/m<sup>3</sup>; Consumer: 5,4 mg/m<sup>3</sup>  
Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects  
Worker Industry: 40 mg/kg; Consumer: 20 mg/kg

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects  
Worker Industry: 8 mg/kg; Consumer: 4 mg/kg

### Appropriate engineering controls

no data available

### Individual protection measures, such as personal protective equipment (PPE)

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Suitable materials for safety gloves; AS/NZS 2161.10:

Polychloroprene - CR: thickness  $\geq 0,5\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .

Nitrile rubber - NBR: thickness  $\geq 0,35\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .

Butyl rubber - IIR: thickness  $\geq 0,5\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .

Fluorinated rubber - FKM: thickness  $\geq 0,4\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Respiratory protection must be used where exposure levels exceed workplace exposure limits. Refer to AS/NZS 1715-1716 for information on selection and use of appropriate respiratory protection equipment.

Use adequate protective respiratory equipment.

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## Section 9: Physical and chemical properties

Physical state: Liquid

Appearance: paste

Color: transparent

Odour: Characteristic

pH: no data available

Melting point / freezing point: no data available

Initial boiling point and boiling range: no data available

Flash point: no data available

Evaporation rate: no data available

Flammability (Solid, Gas) no data available

Lower and upper explosion limit/flammability limits: no data available

Vapour pressure: no data available

Vapour density: no data available

Relative density: 1.28 g/cm<sup>3</sup>

Solubility in water: Insoluble

Solubility in oil: soluble

Partition coefficient (n-octanol/water): no data available

Auto-ignition temperature: no data available

Decomposition temperature: no data available

Kinematic viscosity: no data available

VOC % (Volatile Organic Compound) : (A+B) 7.4 (Rule 1168) g/l

### Particle characteristics:

Particle size: no data available

Particle size distribution: no data available

Shape and aspect ratio: no data available

Specific surface area: no data available

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## Section 10: Stability and reactivity

### Reactivity

Stable under normal conditions

### Chemical stability

no data available

### Possibility of hazardous reactions

None.

### Conditions to avoid

Stable under normal conditions.

### Incompatible materials

None in particular.

### Hazardous decomposition products

None.

## Section 11: Toxicological information

### Information on toxicological effects

#### Toxicological Information of the Preparation

a) acute toxicity	Not classified Based on available data, the classification criteria are not met
b) skin corrosion/irritation	The product is classified: Skin irritation, Category 2(H315)
c) serious eye damage/irritation	The product is classified: Eye irritation, Category 2A(H319)
d) respiratory or skin sensitisation	The product is classified: Skin Sensitisation, Category 1A(H317)
e) germ cell mutagenicity	Not classified Based on available data, the classification criteria are not met
f) carcinogenicity	Not classified Based on available data, the classification criteria are not met
g) reproductive toxicity	Not classified Based on available data, the classification criteria are not met
h) STOT-single exposure	Not classified Based on available data, the classification criteria are not met
i) STOT-repeated exposure	Not classified Based on available data, the classification criteria are not met
j) aspiration hazard	Not classified Based on available data, the classification criteria are not met

#### Toxicological information on main components of the mixture:

bis-[4-(2,3-epoxipropoxy)phenyl] propane	a) acute toxicity	LD50 Skin Rabbit = 20 mg/kg
		LD50 Oral Rat = 11300 µL/kg
		LD50 Skin Rabbit = 20000 mg/kg
free crystalline silica (Ø >10 µ)	a) acute toxicity	LD50 Oral > 2000 mg/kg
		LD50 Skin > 2000 mg/kg
free crystalline silica (Ø <10 µ)	a) acute toxicity	LD50 Oral Rat = 500 mg/kg
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	a) acute toxicity	LD50 Oral Rat > 5000, mg/kg
		LD50 Skin Rat > 2000 mg/kg
	i) STOT-repeated exposure	NOAEL Oral = 250 mg/kg
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	a) acute toxicity	LD50 Oral Rat = 19200 mg/kg
		LD50 Skin Rabbit = 4000, mg/kg
benzyl alcohol	a) acute toxicity	LC50 Inhalation Mist Rat = 11, mg/l 4h
		LD50 Oral Rat = 1230, mg/kg
	g) reproductive toxicity	NOAEL Rat = 1072, mg/m3
ethanol; ethyl alcohol	a) acute toxicity	LC50 Inhalation Vapour Rat = mg/l 4h
		LD50 Oral Rat = 10470 mg/kg



LD50 Skin Rat = 20000 mg/kg  
LD50 Oral Rat = 7060 mg/kg  
LC50 Inhalation Rat = 124,7 mg/l 4h

## Section 12: Ecological information

### Ecotoxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

Toxic to aquatic life with long lasting effects.

### List of Eco-Toxicological properties of the product

The product is classified: Long-term (chronic) aquatic hazard - Category 2(H411)

### List of Eco-Toxicological properties of the components

Component	Ident. Numb.	Ecotox Data
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	CAS: 9003-36-5 - EINECS: 701-263-0	a) Aquatic acute toxicity : LC50 Fish = 5,7 mg/L 96h  a) Aquatic acute toxicity : EC50 Daphnia = 2,55 mg/L 48h a) Aquatic acute toxicity : EC50 Algae = 1,8 mg/L 72h
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	CAS: 68609-97-2 - EINECS: 271-846-8 - INDEX: 603-103-00-4	a) Aquatic acute toxicity : LC50 Fish > 100 mg/L 96h  a) Aquatic acute toxicity : EL50 Daphnia = 7,2 mg/L 48h a) Aquatic acute toxicity : EC50 Algae = 843 mg/L 72h b) Aquatic chronic toxicity : NOEC Algae = 500 mg/L 72h
benzyl alcohol	CAS: 100-51-6 - EINECS: 202-859-9 - INDEX: 603-057-00-5	a) Aquatic acute toxicity : EC50 Daphnia = 230 mg/L 48  a) Aquatic acute toxicity : LC50 Fish = 770 mg/L 1 a) Aquatic acute toxicity : EC50 Algae = 770 mg/L 72 a) Aquatic acute toxicity : LC50 Fish = 460 mg/L 96 a) Aquatic acute toxicity : LC50 Fish Pimephales promelas = 460 mg/L 96h EPA
ethanol; ethyl alcohol	CAS: 64-17-5 - EINECS: 200-578-6 - INDEX: 603-002-00-5	a) Aquatic acute toxicity : EC50 Daphnia > 10000 mg/L 48  a) Aquatic acute toxicity : LC50 Fish > 11200 mg/L 96 a) Aquatic acute toxicity : EC50 Algae > 200 mg/L 72 a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss 12 mL/L 96h EPA a) Aquatic acute toxicity : LC50 Fish Pimephales promelas > 100 mg/L 96h EPA  a) Aquatic acute toxicity : LC50 Fish Pimephales promelas 13400 mg/L 96h EPA  a) Aquatic acute toxicity : LC50 Daphnia Daphnia magna 9268 mg/L 48h IUCLID  a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 2 mg/L 48h EPA d) Terrestrial toxicity : LC50 Worm Eisenia foetida 0,1 mg/cm2 48h IUCLID

### Persistence and degradability

Component	Persitence/Degradability:
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	Readily biodegradable

### Bioaccumulative potential

<b>Component</b>	<b>Bioaccumulation</b>
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	Not bioaccumulative

**Mobility in soil**

no data available

**Other adverse effects**

no data available

**Section 13: Disposal considerations**

**Disposal methods**

The generation of waste should be avoided or minimized wherever possible. Recover if possible.

no data available

Disposal of this product, solutions, packaging and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor.

Do not dispose of waste into sewers.

Disposal considerations:

Do not allow to enter drains or watercourses.

Dispose of product according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.

Dispose of containers contaminated by the product in accordance with local or national legal provisions. For further information, contact your local waste authority.

Special precautions:

This material and its container must be disposed of in a safe way. Care should be taken when handling untreated empty containers.

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Empty containers or liners may retain some product residues. Do not re-use empty containers.

**Section 14: Transport information**

**UN number**

3082

**UN proper shipping name**

ADG-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resins)

ADR-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resins)

IATA-Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resins)

IMDG-Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resins)

**Transport hazard class(es)**

ADG-Class: 9

ADR-Class: 9

IATA-Class: 9

IMDG-Class: 9

**Packing group, if applicable**

ADG-Packing Group: III

ADR-Packing Group: III

IATA-Packing group: III

IMDG-Packing group: III

**Environmental hazards**

ADG-Environmental Pollutant: Yes

Marine pollutant: Yes

**Special precautions for user**

ADG-Subsidiary hazards -

ADG-S.P.: 274 331 335 375 AU01

Road and Rail (ADR-RID):

ADR-Label: 9

ADR-Hazard identification number: 90

ADR-Special Provisions: 274 335 375 601

ADR-Transport category (Tunnel restriction code): 3 (-)

Air (IATA):

IATA-Passenger Aircraft: 964

IATA-Cargo Aircraft: 964

IATA-Label: 9

IATA-Subsidiary hazards: -

IATA-Erg: 9L

IATA-Special Provisions: A97 A158 A197

Sea (IMDG):

IMDG-Stowage Code: Category A

IMDG-Stowage Note: -

IMDG-Subsidiary hazards: -

IMDG-Special Provisions: 274 335 969

IMDG-EMS: F-A, S-F

#### Additional Information

no data available

#### HazChem Code/Emergency Action code

•3Z

These substances, when carried in single or combination packagings containing a net quantity per single or inner packaging of 5 l or less for liquids, or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to provisions of ADR, IMDG and IATA DGR.

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### Section 15: Regulatory information

#### Safety, health and environmental regulations specific for the product in question

This Safety Data Sheet has been prepared according to the Australian Work Health and Safety (WHS) act and the Code of Practice on preparation of safety data sheets for Hazardous Chemicals.

AICIS: all components are listed

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### Section 16: Any other relevant information

Code	Description
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H372	Causes damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

Code	Hazard class and hazard category	Description
2.6/2	Flam. Liq. 2	Flammable liquid, Category 2
3.1/4/Inhal	Acute Tox. 4	Acute toxicity (inhalation), Category 4
3.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4
3.2/2	Skin Irrit. 2	Skin irritation, Category 2
3.3/2A	Eye Irrit. 2A	Eye irritation, Category 2A
3.4.2/1	Skin Sens. 1	Skin Sensitisation, Category 1
3.4.2/1B	Skin Sens. 1B	Skin Sensitisation, Category 1B
3.9/1	STOT RE 1	Specific target organ toxicity — repeated exposure, Category 1
AUS-HAE/C2	Aquatic Chronic 2	Long-term (chronic) aquatic hazard - Category 2

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.  
AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
ATE: Acute Toxicity Estimate  
ATEmix: Acute toxicity Estimate (Mixtures)  
BCF: Biological Concentration Factor  
BEI: Biological Exposure Index  
BOD: Biochemical Oxygen Demand  
CAS: Chemical Abstracts Service (division of the American Chemical Society).  
CAV: Poison Center  
CE: European Community  
CLP: Classification, Labeling, Packaging.  
CMR: Carcinogenic, Mutagenic and Reprotoxic  
COD: Chemical Oxygen Demand  
COV: Volatile Organic Compound  
CSA: Chemical Safety Assessment  
CSR: Chemical Safety Report  
DMEL: Derived Minimal Effect Level  
DNEL: Derived No Effect Level.  
DPD: Dangerous Preparations Directive  
DSD: Dangerous Substances Directive  
EC50: Half Maximal Effective Concentration  
ECHA: European Chemicals Agency  
EINECS: European Inventory of Existing Commercial Chemical Substances.  
ES: Exposure Scenario  
GefStoffVO: Ordinance on Hazardous Substances, Germany.  
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.  
IARC: International Agency for Research on Cancer  
IATA: International Air Transport Association.  
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).  
IC50: half maximal inhibitory concentration  
ICAO: International Civil Aviation Organization.  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).  
IMDG: International Maritime Code for Dangerous Goods.  
INCI: International Nomenclature of Cosmetic Ingredients.  
IRCCS: Scientific Institute for Research, Hospitalization and Health Care  
KAFH: KAFH  
KSt: Explosion coefficient.  
LC50: Lethal concentration, for 50 percent of test population.  
LD50: Lethal dose, for 50 percent of test population.  
LDLo: Leathal Dose Low  
N.A.: Not Applicable  
N/A: Not Applicable  
N/D: Not defined/ Not available  
NA: Not available  
NIOSH: National Institute for Occupational Safety and Health  
NOAEL: No Observed Adverse Effect Level  
OSHA: Occupational Safety and Health Administration.  
PBT: Persistent, Bioaccumulative and Toxic  
PGK: Packaging Instruction  
PNEC: Predicted No Effect Concentration.  
PSG: Passengers  
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.  
STEL: Short Term Exposure limit.  
STOT: Specific Target Organ Toxicity.  
TLV: Threshold Limiting Value.  
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).  
vPvB: Very Persistent, Very Bioaccumulative.  
WGK: German Water Hazard Class.

**Paragraphs modified from the previous revision:**

- 2. HAZARDS IDENTIFICATION
- 3. COMPOSITION/INFORMATION ON INGREDIENTS
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- 11. TOXICOLOGICAL INFORMATION
- 12. ECOLOGICAL INFORMATION
- 16. OTHER INFORMATION