

## Safety Data Sheet

### KERAPOXY comp.B

Safety Data Sheet dated: 07/07/2017 - version 2

Date of first edition: 03/05/2017



## 1. Identification

### GHS Product identifier

Mixture identification:

Trade name: KERAPOXY comp.B

Trade code: 8459955

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

Recommended use: Hardener for epoxy products

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

### Emergency phone number

Australian Poisons Information Centre 24 Hour Service 13 11 26

Police or Fire Brigade 000

## 2. Hazard identification



### Classification of the Hazardous chemical

Skin Corr. 1B Causes severe skin burns and eye damage.

Eye Dam. 1 Causes serious eye damage.

Skin Sens. 1B May cause an allergic skin reaction.

Aquatic Chronic 3 Harmful 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



Danger

#### Hazard statements:

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

#### Precautionary statements:

P260 Do not breathe mist/vapours/spray.

P264 Wash hands thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

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

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

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

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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.

P321	Specific treatment (see supplementary instruction on this label).
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/container in accordance with applicable regulations

**Contains:**

Tall oil, reaction product with TEPA

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with 4,4'-isopropylidenediphenol -1-chloro-2,3-epoxypropane co-oligomer, tall-oil fatty acids, tetraethylenepentamine and triethylenetetramine  
3-aminomethyl-3,5,5-trimethylcyclohexylamin

benzyl alcohol

3-Aminopropyldimethylamine

3,6,9-triazaundecamethylenediamine  
tetraethylenepentamine

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

Other Hazards: No other hazards

**3. Composition/information on ingredients**

**Substances**

no data available

**Mixtures**

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

Quantity	Name	Ident. Numb.	Classification
25-50 %	Tall oil, reaction product with TEPA	CAS:68155-17-9	Eye Irrit. 2A; STOT SE 3; Skin Irrit. 2; Skin Sens. 1B, H319, H335, H315, H317
25-50 %	Fatty acids, C18-unsatd., dimers, oligomeric reaction products with 4,4'-isopropylidenediphenol -1-chloro-2,3-epoxypropane co-oligomer, tall-oil fatty acids, tetraethylenepentamine and triethylenetetramine	CAS:157707-80-7 EC:500-296-6	Skin Irrit. 2; Eye Irrit. 2A; Aquatic Chronic 3, H315, H319, H412
5-10 %	benzyl alcohol	CAS:100-51-6 EC:202-859-9 Index:603-057-00-5	Acute Tox. 4; Acute Tox. 4; Eye Irrit. 2A, H332, H302, H319
0.49-1 %	3,6,9-triazaundecamethylenediamine tetraethylenepentamine	CAS:112-57-2 EC:203-986-2 Index:612-060-00-0	Skin Corr. 1B; Skin Sens. 1; Aquatic Chronic 2; Acute Tox. 4; Acute Tox. 4, H314, H317, H411, H302, H312
0.49-1 %	3-Aminopropyldimethylamine	CAS:109-55-7 EC:203-680-9	Flam. Liq. 3; Skin Corr. 1B; Eye Dam. 1; Acute Tox. 4; Acute Tox. 4; Skin Sens. 1, H226, H314, H318, H302, H312, H317

**4. First-aid measures**

**Description of necessary first-aid measures**

In case of skin contact:

- Immediately take off all contaminated clothing.
- OBTAIN IMMEDIATE MEDICAL ATTENTION.
- 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).

**5. Fire-fighting measures**

**Suitable extinguishing media**

None in particular.  
Water.  
Carbon dioxide (CO<sub>2</sub>).

### 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.

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## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.  
Remove persons to safety.  
See protective measures under point 7 and 8.

### Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.  
Retain contaminated washing water and dispose it.  
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.  
Suitable material for taking up: absorbing material, organic, sand

### Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand  
Wash with plenty of water.

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## 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

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

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## 8. Exposure controls/personal protection

### Control parameters – exposure standards, biological monitoring

#### Predicted No Effect Concentration (PNEC) values

Component	CAS-No.	PNEC LIMIT	Exposure Route	Exposure Frequency	Remark
benzyl alcohol	100-51-6	1 mg/l	Fresh Water		
		0,1 mg/l	Marine water		
		5,27 mg/kg	Freshwater sediments		
		0,527 mg/kg	Marine water sediments		
		39 mg/l	Microorganisms in sewage treatments		
		0,45 mg/kg	Soil		
		2,3 mg/l	Intermittent release		
3,6,9-triazaundecamethylenediamine; tetraethylenepentamine	112-57-2	0,00068 mg/l	Fresh Water		
		0,00068 mg/l	Marine water		
		3,34 mg/kg	Freshwater sediments		

0,343 Marine water  
mg/kg sediments  
0,683 Soil  
mg/kg

**Derived No Effect Level. (DNEL)**

Component	CAS-No.	Worker Industry	Worker Professional	Consumer	Exposure Route	Exposure Frequency	Remark	
benzyl alcohol	100-51-6			20 mg/kg	Human Oral	Short Term, systemic effects		
				4 mg/kg	Human Oral	Long Term, systemic effects		
		110 DXE2H_00 1		27 DXE2H_00 5	Human Inhalation	Short Term, systemic effects		
		22 DXE2H_00 1		5,4 DXE2H_00 5	Human Inhalation	Long Term, systemic effects		
		40 mg/kg		20 mg/kg	Human Dermal	Short Term, systemic effects		
		8 mg/kg		4 mg/kg	Human Dermal	Long Term, systemic effects		
		3,6,9-triazaundecamethyle nediamine; tetraethylenepentamine	112-57-2		10 mg/kg	Human Dermal	Short Term, systemic effects	
				0,74 mg/kg	Human Dermal	Long Term, systemic effects		
				0,32 mg/kg	Human Dermal	Long Term, systemic effects		
				0,53 mg/kg	Human Oral	Long Term, systemic effects		
		0,00129 mg/l	Human Inhalation	Long Term, systemic effects				
		0,00038 mg/l	Human Inhalation	Long Term, systemic effects				

**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:

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

Respiratory protection:

Use adequate protective respiratory equipment.

**9. Physical and chemical properties**

Color: DXZH00010

Appearance: liquid

Odour: ammonia

Odour threshold: no data available

pH: 11.00

Melting point / freezing point: no data available

Initial boiling point and boiling range: no data available

Flash point: 100 °C (212 °F)

Evaporation rate: no data available

Flammability (Solid, Gas): no data available

Upper/lower flammability or explosive limits: no data available

Vapour pressure: 0.01

Vapour density: no data available

Relative density: 1.10 g/cm<sup>3</sup>

Solubility in water: partly soluble

Solubility in oil: Soluble

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

Auto-ignition temperature: no data available

Decomposition temperature: no data available

Viscosity: 900.00 cPs

Specific heat value: no data available

Saturated vapour concentration: no data available

Release of invisible flammable vapours and gases: no data available

Particle size: no data available  
Size distribution: no data available  
Shape and aspect ratio: no data available  
Crystallinity: no data available  
Dustiness: no data available  
Surface area: no data available  
Degree of aggregation or agglomeration, and dispersibility: no data available  
Biodurability or biopersistence: no data available  
Surface coating or chemistry: no data available  
VOC (Volatile Organic Compound) : 8,2 (A+B) (Rule 1168) g/l

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## 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

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## SECTION 11: Toxicological information

### Information on toxicological effects

#### Toxicological information of the mixture:

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

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

benzyl alcohol	g) reproductive toxicity	NOAEL Rat = 1072 mg/m <sup>3</sup>	
	l) chronic toxicity	NOAEL Oral Rat = 400 mg/kg	
		NOAEL Inhalation Rat = 1072 mg/m <sup>3</sup>	
a) acute toxicity	LD50 Skin Rabbit = 2000 mg/kg		
	LD50 Oral Rat = 1620 mg/kg		
	LC50 Inhalation Rat > 4178 mg/l 4h		
3-Aminopropylidimethylamine	a) acute toxicity	LD50 Oral Rat = 1600 mg/kg	
		LC50 Inhalation Rat = 24,8 mg/l 4h	
3,6,9-triazaundecamethylenediamine tetraethylenepentamine	b) skin corrosion/irritation	Skin Sensitization Rabbit Positive	
		a) acute toxicity	LD50 Oral Rat = 3990 mg/kg
			LD50 Skin Rabbit = 660 mg/kg

If not differently specified, the information required in the regulation and listed below must be considered as N.A.

- a) acute toxicity
- b) skin corrosion/irritation
- c) serious eye damage/irritation
- d) respiratory or skin sensitisation
- e) germ cell mutagenicity
- f) carcinogenicity
- g) reproductive toxicity
- h) STOT-single exposure
- i) STOT-repeated exposure
- j) aspiration hazard

## 12. Ecological information

### Ecotoxicity

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

Eco-Toxicological Information:

Harmful to aquatic life with long lasting effects.

#### List of components with eco-toxicological properties

Quantity	Component	Ident. Numb.	Ecotox Infos
5-10 %	benzyl alcohol	CAS: 100-51-6 - EINECS: 202-859-9 - 67-548-EC: 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 : EC50 Daphnia = 66 mg/L b) Aquatic chronic toxicity : NOEC Daphnia = 51 mg/L - 21 d
0.49-1 %	3,6,9-triazaundecamethylenediamine tetraethylenepentamine	CAS: 112-57-2 - EINECS: 203-986-2 - 67-548-EC: 612-060-00-0	a) Aquatic acute toxicity : LC50 Fish = 310 mg/L 96  a) Aquatic acute toxicity : EC50 Daphnia = 24,1 mg/L 48 a) Aquatic acute toxicity : EC50 Algae > 2,1 mg/L 72
0.49-1 %	3-Aminopropyldimethylamine	CAS: 109-55-7 - EINECS: 203-680-9	a) Aquatic acute toxicity : LC50 Fish = 122 mg/L 96  a) Aquatic acute toxicity : EC50 Daphnia = 59,5 mg/L 48 a) Aquatic acute toxicity : EC50 Algae = 53,5 mg/L 72

### Persistence and degradability

no data available

### Bioaccumulative potential

no data available

### Mobility in soil

no data available

### Other adverse effects

no data available

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## 13. Disposal considerations

### Disposal methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

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## 14. Transport information

### UN number

2735

### UN proper shipping name

ADG-Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S.  
ADR-Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S.  
IATA-Technical name: AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S.  
IMDG-Technical name: AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S.

### Transport hazard class(es)

ADG-Class: 8

ADR-Class: 8

IATA-Class: 8

IMDG-Class: 8

### 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: No

Marine pollutant: No

no data available

**Special precautions for user**

no data available

**Additional Information**

no data available

**HazChem Code/Emergency Action code**

no data available

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**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.

AICS: all components are listed

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**16. Other information**

Code	Description
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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

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  
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:**

- 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
- 3. COMPOSITION/INFORMATION ON INGREDIENTS
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 9. PHYSICAL AND CHEMICAL PROPERTIES
- 11. TOXICOLOGICAL INFORMATION
- 12. ECOLOGICAL INFORMATION