

## Safety Data Sheet

### KERALASTIC T comp. B

Safety Data Sheet dated: 7/7/2017 - version 2

Date of first edition: 5/3/2017



## 1. Identification

### GHS Product identifier

Mixture identification:

Trade name: KERALASTIC T comp. B

Trade code: 901041

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

Recommended use: DXE2H\_ITA\_PLG

Uses advised against: Data not available

### Supplier's details

Company: MAPEI AUSTRALIA Pty Ltd

180 Viking Drive Wacol QLD 4076 Australia

### 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

Acute Tox. 4	Harmful if swallowed.
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.
STOT RE 2	May cause damage to organs through prolonged or repeated exposure if swallowed.

Adverse physicochemical, human health and environmental effects:

No other hazards

### GHS label elements, including precautionary statements

#### Pictograms and Signal Words



Danger

#### Hazard statements:

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H373.C	May cause damage to organs through prolonged or repeated exposure if swallowed.

#### Precautionary statements:

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264.1	Wash hands 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.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
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.
P314	Get medical advice/attention if you feel unwell.
P321.A	Specific treatment (see supplementary instructions 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.B	Dispose of contents in accordance with local regulation.

**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:**

Concentration (% w/w)	Name	Ident. Numb.	Classification
10-20 %	4,4'-methylenebis(cyclohexylamine)	CAS:1761-71-3 EC:217-168-8	Acute Tox. 4; Skin Corr. 1B; Skin Sens. 1; STOT RE 2, H302, H314, H317, H373
10-20 %	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
10-20 %	Amines, polyethylenepoly-, triethylenetetramine fraction (TETA)	CAS:90640-67-8 EC:292-588-2 Index:612-059-00-5	Acute Tox. 4; Acute Tox. 4; Skin Corr. 1B; Eye Dam. 1; Skin Sens. 1; Aquatic Chronic 3, H312, H302, H314, H318, H317, H412
5-10 %	2,4,6-tris(dimethylaminomethyl)phenol	CAS:90-72-2 EC:202-013-9	Skin Corr. 1C; Eye Dam. 1; Skin Sens. 1B, H314, H318, H317
1-2.5 %	bis[(dimethylamino)methyl]phenol	CAS:71074-89-0 EC:275-162-0	Skin Corr. 1C; Skin Sens. 1B, H314, 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:

- Give nothing to eat or drink.

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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## 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: 1.0 - 7.0  
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
4,4'-methylenebis(cyclohexylamine)	1761-71-3	0,08 mg/l	Intermittent release	
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	
Amines, polyethylenepoly-, triethylenetetramine fraction (TETA)	90640-67-8	0,45 mg/kg	Soil
		2,3 mg/l	Intermittent release
		0,19 mg/l	Fresh Water
2,4,6- tris (dimethylaminomethyl) phenol	90-72-2	0,038 mg/l	Marine water
		95,5 mg/kg	Freshwater sediments
		19,2 mg/kg	Marine water sediments
		19,1 mg/kg	Soil
		0,084 mg/l	Fresh Water
		0,0084 mg/l	Marine water
		0,2 mg/l	Microorganisms in sewage treatments

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

Component	CAS-No.	Worker Industrial	Worker Professional	Consumer	Exposure Route	Exposure Frequency	Remark
4,4'- methylenebis (cyclohexylamine)	1761-71-3	0,5 DXE2H_ 001			Human Inhalation	Long Term, systemic effects	
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_ 001	27 DXE2H_ 005		Human Inhalation	Short Term, systemic effects	
		22 DXE2H_ 001	5,4 DXE2H_ 005		Human Inhalation	Long Term, systemic effects	
		40 mg/kg	20 mg/kg		Human Dermal	Short Term, systemic effects	
Amines, polyethylenepoly-, triethylenetetramine fraction (TETA)	90640-67-8		8 mg/kg	4 mg/kg	Human Dermal	Long Term, systemic effects	
			0,57 mg/kg	0,25 mg/kg	Human Dermal	Long Term, systemic effects	
			0,001 mg/l	0,00029 mg/l	Human Inhalation	Long Term, systemic effects	
2,4,6- tris (dimethylaminomethyl) phenol	90-72-2		8 mg/kg		Human Dermal	Short Term, systemic effects	
			0,41 mg/kg		Human Oral	Long Term, systemic effects	
		4,9 DXE2H_ 001			Human Inhalation	Long Term, local effects	
		0,31 DXE2H_ 001			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: brown

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: 127,0 °C (260,6 °F)

Flash point: 93,0 °C (199,4 °F)

Evaporation rate: no data available

Flammability (Solid, Gas): no data available

Upper/lower flammability or explosive limits: no data available

Vapour pressure: 0.20

Vapour density: 3.6

Relative density: 0.92 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: 400.00 °C

Decomposition temperature: no data available

Viscosity: 30.00 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

Particle size distribution: no data available

Shape and aspect ratio: no data available

Crystallinity: no data available

Dustiness: no data available

Specific 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) : 33,7 (A+B) (Rule 1168) g  
/l**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**

## 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:

4,4'-methylenebis(cyclohexylamine)	a) acute toxicity	LD50 Oral Rat = 625 mg/kg
		LD50 Skin Rabbit = 2110 mg/kg
		LC50 Inhalation Mouse = 4 mg/l 4h
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
Amines, polyethylenepoly-, triethylenetetramine fraction (TETA)	b) skin corrosion/irritation	Skin Irritant Positive
	a) acute toxicity	LD50 Oral Rat > 300 mg/kg
		LD50 Skin Rabbit > 1000 mg/kg
2,4,6-tris(dimethylaminomethyl)phenol	a) acute toxicity	LD50 Oral Rat = 1200 mg/kg
		LD50 Skin Rat = 1280 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:

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

Component	Ident. Numb.	Ecotox Infos
4,4'-methylenebis(cyclohexylamine)	CAS: 1761-71-3 - EINECS: 217-168-8	a) Aquatic acute toxicity : EC50 Daphnia = 6,84 mg/L 48
		a) Aquatic acute toxicity : LC50 Fish > 100 mg/L 96
		a) Aquatic acute toxicity : EC50 Algae = mg/L 72

benzyl alcohol	CAS: 100-51-6 - EINECS: 202-859-9 - 67-548-EC: 603-057-00-5	b) Aquatic chronic toxicity : NOEC Daphnia = 4 mg/L 504 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
Amines, polyethylenepoly-, triethylenetetramine fraction (TETA)	CAS: 90640-67-8 - EINECS: 292-588-2 - 67-548-EC: 612-059-00-5	a) Aquatic acute toxicity : LC50 Fish > 100 mg/L 96
2,4,6-tris(dimethylaminomethyl)phenol	CAS: 90-72-2 - EINECS: 202-013-9	a) Aquatic acute toxicity : EC50 Daphnia > 10 mg/L 48 a) Aquatic acute toxicity : EC50 Algae > 10 mg/L 72 a) Aquatic acute toxicity : LC50 Fish = 222 mg/L 24
		a) Aquatic acute toxicity : LC50 Fish = 249 mg/L 24 a) Aquatic acute toxicity : LC50 Fish = 175 mg/L 96 a) Aquatic acute toxicity : EC50 Daphnia = 718 mg/L 96 a) Aquatic acute toxicity : EC50 Algae = 84 mg/L 72 b) Aquatic chronic toxicity : NOEC Algae = 6,25 mg/L

#### **Persistence and degradability**

no data available

#### **Bioaccumulative potential**

no data available

#### **Mobility in soil**

no data available

#### **Other adverse effects**

no data available

### **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.

### **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**

<b>Code</b>	<b>Description</b>
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H373.C	May cause damage to organs through prolonged or repeated exposure if swallowed.
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

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  
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:**

- 3. COMPOSITION/INFORMATION ON INGREDIENTS
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 9. PHYSICAL AND CHEMICAL PROPERTIES
- 11. TOXICOLOGICAL INFORMATION
- 12. ECOLOGICAL INFORMATION