

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

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

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:

Quantity	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).

5. Fire-fighting measures

Suitable extinguishing media

None in particular.

Water.

Carbon dioxide (CO₂).

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.

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.

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:

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		
		0,45 mg/kg	Soil		
Amines, polyethylenepoly-, triethylenetetramine fraction (TETA)	90640-67-8	0,19 mg/l	Fresh Water		
		0,038 mg/l	Marine water		
		95,5 mg/kg	Freshwater sediments		
		19,2 mg/kg	Marine water sediments		
		19,1 mg/kg	Soil		
2,4,6-tris (dimethylaminomethyl) phenol	90-72-2	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
		8 mg/kg	4 mg/kg	Human Dermal	Long Term, systemic effects
Amines, polyethylenepoly-, triethylenetetramine fraction (TETA)	90640-67-8	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
			8 mg/kg	Human Dermal	Short Term, systemic effects
			0,41 mg/kg	Human Oral	Long Term, systemic effects
2,4,6- tris (dimethylaminometh yl)phenol	90-72-2	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/cm³

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
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) : 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 ³
	l) chronic toxicity	NOAEL Oral Rat = 400 mg/kg
		NOAEL Inhalation Rat = 1072 mg/m ³
	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

Quantity	Component	Ident. Numb.	Ecotox Infos
10-20 %	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 b) Aquatic chronic toxicity : NOEC Daphnia = 4 mg/L 504
10-20 %	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
10-20 %	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 a) Aquatic acute toxicity : EC50 Daphnia > 10 mg/L 48 a) Aquatic acute toxicity : EC50 Algae > 10 mg/L 72
5-10 %	2,4,6-tris(dimethylaminomethyl)phenol	CAS: 90-72-2 - EINECS: 202-013-9	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

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

16. Other information

Code Description

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