

## Safety Data Sheet

### KERALASTIC T comp.A

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

Date of first edition: 3/5/2017



## 1. Identification

### GHS Product identifier

Mixture identification:

Trade name: KERALASTIC T comp.A

Trade code: 901035

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

Recommended use: Epoxy-polyurethane adhesive

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 Irrit. 2	Causes skin irritation.
Eye Irrit. 2A	Causes serious eye irritation.
Skin Sens. 1	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



Warning

#### Hazard statements:

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

#### Precautionary statements:

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264.1	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.
P302+P352	IF ON SKIN: Wash with plenty of soap and 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.
P321.A	Specific treatment (see supplementary instructions on this label).
P332+P313	If skin irritation occurs: Get medical advice/attention.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.

P363 Wash contaminated clothing before reuse.  
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
5-10 %	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)	CAS:25068-38-6 EC:500-033-5 Index:603-074-00-8	Eye Irrit. 2A; Skin Irrit. 2; Skin Sens. 1; Aquatic Chronic 2, H319, H315, H317, H411
1-2.5 %	titanium dioxide	CAS:13463-67-7 EC:236-675-5	
0.49-1 %	4-nonilfenolo, ramificato (sogg.PIC) - candidate list	CAS:84852-15-3 EC:284-325-5 Index:601-053-00-8	Repr. 2; Skin Corr. 1B; Aquatic Acute 1; Aquatic Chronic 1; Acute Tox. 4, H361fd, H314, H400, H410, H302

---

## 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).

---

## 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.

---

## 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:  
 Adequately ventilated premises.

**8. Exposure controls/personal protection**

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

**List of components with OEL value**

Component	OEL Type	Country	Ceiling	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Behaviour	Note
titanium dioxide	ACGIH	--None--		10					A4 - LRT irr

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

Component	CAS-No.	PNEC LIMIT	Exposure Route	Exposure Frequency	Remark
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)	25068-38-6	0,006 mg/l	Fresh Water		
		0,0006 mg/l	Marine water		
		0,0627 mg/kg	Freshwater sediments		
		0,00627 mg/kg	Marine water sediments		
titanium dioxide	13463-67-7	0,184 mg/l	Fresh Water		
		100 mg/kg	Soil		
		100 mg/l	Microorganisms in sewage treatments		
		0,0184 mg/l	Marine water		
		100 mg/kg	Marine water sediments		
		1000 mg/kg	Freshwater sediments		
		0,193 mg/l	Intermittent release		

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

Component	CAS-No.	Worker Industry	Worker Professional	Consumer	Exposure Route	Exposure Frequency	Remark	
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700)	25068-38-6	8,3 mg/kg				Human Dermal	Short Term, systemic effects	
						Human Inhalation	Short Term, systemic effects	
						Human Dermal	Long Term, systemic effects	
						Human Inhalation	Long Term, systemic effects	
						3,571 mg/kg	Human Dermal	Short Term, systemic effects
						0,75 mg/kg	Human Oral	Short Term, systemic effects

				3,571 mg/kg	Human Dermal	Long Term, systemic effects
				0,75 mg/kg	Human Oral	Long Term, systemic effects
titanium dioxide	13463-67-7	10 DXE2H_001	10 DXE2H_003		Human Inhalation	Long Term, local effects
				700 mg/kg	Human Oral	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:

no data available

## 9. Physical and chemical properties

Color: DXE2H\_STR2LOV\_093

Appearance: paste

Odour: characteristic

Odour threshold: no data available

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

Upper/lower flammability or explosive limits: no data available

Vapour pressure: no data available

Vapour density: ==

Relative density: 1.70 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

Viscosity: 1,500,000.00 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 content % in the product (2004/42CE) : 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:

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)	i) STOT-repeated exposure	NOAEL Oral Rat = 50 mg/kg
		NOAEL Skin Rat = 100 mg/kg
	a) acute toxicity	LD50 Oral Rat > 15000 mg/kg LD50 Skin Rabbit > 23000 mg/kg
titanium dioxide	l) chronic toxicity	NOAEL Oral Rat = 1000 mg/kg
	a) acute toxicity	LD50 Oral Rat > 5000 mg/kg LD50 Skin Rat > 2000 mg/m3 LC50 Inhalation Rat = 4,26 mg/l 4h LD50 Skin Rabbit > 10000 mg/kg
	d) respiratory or skin sensitisation	Skin Sensitization Rat Negative
	b) skin corrosion/irritation	Skin Irritant Rabbit Negative
4-nonilfenolo, ramificato (sogg.PIC) - candidate list	a) acute toxicity	LD50 Oral Rat > 5000 mg/kg LD50 Skin Rabbit 2140 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 %	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)	CAS: 25068-38-6 - EINECS: 500-033-5 - 67-548-EC: 603-074-00-8	a) Aquatic acute toxicity : LC50 Fish > 2 mg/L 96  a) Aquatic acute toxicity : EC50 Daphnia > 1,8 mg/L 48 a) Aquatic acute toxicity : LC50 Algae > 11 mg/L 72 a) Aquatic acute toxicity : LC50 Daphnia = 1,3 mg/L 96 b) Aquatic chronic toxicity : NOEC Daphnia = 0,3 mg/L

1-2.5 %	titanium dioxide	CAS: 13463-67-7 - EINECS: 236-675-5	a) Aquatic acute toxicity : LC50 Fish > 1000 mg/L 96 a) Aquatic acute toxicity : EC50 Algae > 100 mg/L 72 a) Aquatic acute toxicity : NOEC Algae = 5600 mg/L 72 a) Aquatic acute toxicity : EC50 Daphnia > 100 mg/L 48
0.49-1 %	4-nonilfenolo, ramificato (sogg.PIC) - candidate list	CAS: 84852-15-3 - EINECS: 284-325-5 - 67-548-EC: 601-053-00-8	a) Aquatic acute toxicity : LC50 Fish Pimephales promelas = 135 mg/L 96h IUCLID a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus = 1351 mg/L 96h EPA a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 14 mg/L 48h IUCLID a) Aquatic acute toxicity : EC50 Algae Pseudokirchneriella subcapitata 36 mg/L 96h EPA a) Aquatic acute toxicity : EC50 Algae Pseudokirchneriella subcapitata 16 mg/L 72h EPA a) Aquatic acute toxicity : EC50 Algae Desmodesmus subspicatus = 13 mg/L 72h IUCLID

### Persistence and degradability

no data available

### Bioaccumulative potential

Component	Bioaccumulation	Test	Duration	Value
4-nonilfenolo, ramificato (sogg.PIC) - candidate list	Not bioaccumulative	BCF - Bioconcentration factor	28 d	740

### Mobility in soil

no data available

### Other adverse effects

no data available

## 13. Disposal considerations

### Disposal methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

## 14. Transport information

### UN number

3082

### UN proper shipping name

ADG-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

ADR-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

IATA-Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

IMDG-Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

### 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: 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.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
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:**

- 3. COMPOSITION/INFORMATION ON INGREDIENTS
- 9. PHYSICAL AND CHEMICAL PROPERTIES
- 11. TOXICOLOGICAL INFORMATION
- 12. ECOLOGICAL INFORMATION