

## Safety Data Sheet

### KERALASTIC T comp.A

Safety Data Sheet dated: 4/29/2019 - version 1

## Section 1. Identification of the substance and supplier

### 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: MBP (NZ) Ltd. - 88 Carbine Road, Mount Wellington, Auckland 1060, New Zealand Email: enquiries@MBPLtd.co.nz

Website: www.MBPLtd.co.nz - Phone: +64 9 921 1994 (Mon-Fri 9am-5pm) - Fax: +64 9 921 1993

### Emergency phone number

New Zealand Poisons Centre: Ph: 0800 764 766

## Section 2. Hazards identification

### HSNO hazard classification

Classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2017.

### HSNO classification:

- |      |   |
|------|---|
| 6.3B | H316 - Causes mild skin irritation.   |
| 6.5B | H317 - May cause an allergic skin reaction.   |
| 6.8B | H361.G - Suspected of damaging fertility or the unborn child if inhaled, in contact with skin and if swallowed. |
| 9.1D | H402 - Harmful to aquatic life.   |
| 9.1C | H412 - Harmful to aquatic life with long lasting effects.   |

### Hazard information

#### Pictograms and Signal Words



Warning

### Hazard statements:

- |      |  |
|------|--|
| H316 | Causes mild skin irritation.   |
| H317 | May cause an allergic skin reaction.   |
| H361 | Suspected of damaging fertility or the unborn child if inhaled, in contact with skin and if swallowed. |
| H402 | Harmful to aquatic life.   |
| H412 | Harmful to aquatic life with long lasting effects.   |

### Precautionary statements:

- |           |  |
|-----------|--|
| P201      | Obtain special instructions before use.                                    |
| P202      | Do not handle until all safety precautions have been read and understood.  |
| P261      | Avoid breathing mist/vapours/spray.  |
| P273      | Avoid release to the environment.  |
| P280      | Wear protective gloves/protective clothing/eye protection/face protection. |
| P281      | Use personal protective equipment as required.                             |
| P302+P352 | IF ON SKIN: Wash with plenty of soap and water.                            |
| P308+P313 | IF exposed or concerned: Get medical advice/attention.                     |
| P321      | Specific treatment (see supplementary instructions on this label).         |
| P333+P313 | If skin irritation or rash occurs: Get medical advice/attention.           |
| P362      | Take off contaminated clothing and wash before reuse.                      |
| P405      | Store locked up.   |
| P501      | Dispose of contents/container in accordance with applicable regulations.   |

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

No other hazards

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### Section 3. Composition/information on ingredients

#### Substances

N.A.

#### Mixtures

Mixture identification: KERALASTIC T comp.A

#### Hazardous components within the meaning of HSNO Act 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	6.4A, H319; 6.3A, H315; 6.5B, H317; 9.1B, H411
≥0.49 - <1 %	4-nonylphenol, branched	CAS:84852-15-3 EC:284-325-5 Index:601-053-00-8	6.8B, H361fd; 8.2B, H314; 9.1A, H400; 9.1A, H410; 6.1D (oral), H302

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### 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.

In case of eyes contact:

- Wash immediately with water.

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.

#### Indication of immediate medical attention and special treatment needed, if necessary

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

#### Most important symptoms/effects, acute and delayed

N.A.

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### Section 5. Fire-fighting measures

#### Extinguishing media

Suitable extinguishing media:

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

Unsuitable extinguishing media:

- None in particular.

#### Specific hazards arising from the chemical

- Do not inhale explosion and combustion gases.
- Burning produces heavy smoke.
- Hazardous combustion products: N.A.
- Explosive properties: ==
- Oxidizing properties: N.A.

#### 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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### Section 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 materials for containment and cleaning up

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

Wash with plenty of water.

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## Section 7. Handling and storage

### Precautions for safe handling

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

Exercise the greatest care when handling or opening the container.

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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## Section 8. Exposure controls/personal protection

### Workplace Exposure Standards

#### 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		
4-nonylphenol, branched	84852-15-3	0,000614 mg/l	Fresh Water		
		0,000527 mg/l	Marine water		
		4,62 mg/kg	Freshwater sediments		
		1,23 mg/kg	Marine water sediments		

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

Component	CAS-No.	Worker Industrial	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	
		12,25 mg/m3			Human Inhalation	Short Term, systemic effects	

		8,3 mg/kg		Human Dermal	Long Term, systemic effects
		12,25 mg/m3		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
4-nonylphenol, branched	84852-15-3	0,5 mg/m3	0,4 mg/m3	Human Inhalation	Long Term, systemic effects
		1 mg/m3	0,8 mg/m3	Human Inhalation	Short Term, systemic effects
		7,5 mg/kg	3,8 mg/kg	Human Dermal	Long Term, systemic effects
		15 mg/kg	7,6 mg/kg	Human Dermal	Short Term, systemic effects
			0,08 mg/kg	Human Oral	Long Term, systemic effects
			0,4 mg/kg	Human Oral	Short Term, systemic effects

#### Engineering Controls

N.A.

#### 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:

N.A.

Thermal Hazards:

N.A.

### Section 9. Physical and chemical properties

Physical state: Liquid

Appearance and colour: paste various

Odour: characteristic

Odour threshold: N.A.

pH: N.A.

Melting point / freezing point: N.A.

Initial boiling point and boiling range: N.A.

Flash point: N.A.

Flammability (Solid, Gas): N.A.

Upper/lower flammability or explosive limits: N.A.

Vapour pressure: N.A.

Vapour density: ==

Relative density: 1.70 g/cm<sup>3</sup>

Solubility in water: Insoluble

Solubility in oil: Soluble

Partition coefficient (n-octanol/water): N.A.

Auto-ignition temperature: N.A.

Decomposition temperature: N.A.

Kinematic viscosity: N.A.

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## Section 10. Stability and reactivity

### Reactivity

Stable under normal conditions

### Chemical stability

Data not 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:

reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700)	a) acute toxicity	LD50 Oral Rat > 15000 mg/kg
		LD50 Skin Rabbit > 23000 mg/kg
		LD50 Oral Rat = 11400 mg/kg
	i) STOT-repeated exposure	NOAEL Oral Rat = 50 mg/kg
		NOAEL Skin Rat = 100 mg/kg
4-nonylphenol, branched	a) acute toxicity	LD50 Oral Rat > 5000 mg/kg
		LD50 Skin Rabbit 2140 mg/kg
		LD50 Skin Rabbit = 2000 mg/kg
		LD50 Oral Rat = 1300 mg/kg
	b) skin corrosion/irritation	Skin Irritant Rabbit Negative
d) respiratory or skin sensitisation	Skin Sensitization Rat Negative	

**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

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## Section 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
>=5 - <10 %	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)	CAS: 25068-38-6 - EINECS: 500-033-5 - INDEX: 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
>=0.49 - <1 %	4-nonylphenol, branched	CAS: 84852-15-3 - EINECS: 284-325-5 - INDEX: 601-053-00-8	a) Aquatic acute toxicity : LC50 Fish Pimephales promelas = 0,135 mg/L 96h IUCLID  a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus = 0,1351 mg/L 96h EPA  a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 0,14 mg/L 48h IUCLID  a) Aquatic acute toxicity : EC50 Algae Pseudokirchneriella subcapitata 0,36 mg/L 96h EPA  a) Aquatic acute toxicity : EC50 Algae Pseudokirchneriella subcapitata 0,16 mg/L 72h EPA  a) Aquatic acute toxicity : EC50 Algae Desmodesmus subspicatus = 1,3 mg/L 72h IUCLID

## Persistence and degradability

N.A.

## Bioaccumulative potential

Component	Bioaccumulation	Test	Duratio Value n
4-nonylphenol, branched	Not bioaccumulative	BCF - Bioconcentration factor	28 d 740

## Mobility in soil

N.A.

## Other adverse effects

N.A.

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## Section 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.

### Special precautions to be taken during disposal

No Data Available

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## Section 14. Transport information

### UN number

3082

### UN proper shipping name

NZS-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)

NZS-Class: 9

ADR-Class: 9  
IATA-Class: 9  
IMDG-Class: 9

**Packing group, if applicable**

NZS-Packing Group: III  
ADR-Packing Group: III  
IATA-Packing group: III  
IMDG-Packing group: III

**Environmental hazards**

Marine pollutant: No  
Environmental Pollutant: No

**Special precautions for user**

NZS-Subsidiary risks: -

NZS-Special Dispositions: 274 331 335

Road and Rail (ADR-RID):

ADR-Label: 9

ADR-Hazard identification number: NA

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-Subrisk: -

IATA-Erg: 9L

IATA-Special Provisions: A97 A158 A197

Sea (IMDG):

IMDG-Stowage Code: Category A

IMDG-Stowage Note: -

IMDG-Subrisk: -

IMDG-Special Provisions: 274 335 969

IMDG-EMS: F-A, S-F

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**Section 15. Regulatory information**

**HSNO Approval**

HSNO approval number and group standard title:

HSR002544 - Construction Products (Subsidiary Hazard) Group Standard 2006

**HSNO Controls**

**Certified Handler**

No Data Available

**New Zealand Inventory of Chemicals (NZIoC)**

All components are listed on the NZIoC Inventory.

**Regulatory references**

Preparation of Safety Data Sheets - Approved Code of Practice Under the HSNO Act 1996 (HSNO CoP 8-1 09-06).

Hazardous Substances (Classification) Regulations 2001.

Labelling of Hazardous Substances: Hazard and Precautionary Information (January 2012 EPA0094).

Assigning a Product to a HSNO Approval (May 2013/Revised June 2014).

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**Section 16. Other information**

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<b>Code</b>	<b>Description</b>
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H316	Causes mild skin irritation.

H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H361	Suspected of damaging fertility or the unborn child if inhaled, in contact with skin and if swallowed.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H400	Very toxic to aquatic life.
H402	Harmful 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.

**Description of the HSN0 Classification codes used in section 2 or 3:**

<b>Code</b>	<b>Description</b>
6.1D (oral)	Substances that are acutely toxic - Harmful (oral).
6.3A	Substances that are irritating to the skin.
6.3B	Substances that are mildly irritating to the skin.
6.4A	Substances that are irritating to the eye.
6.5B	Substances that are contact sensitisers.
6.8B	Substances that are suspected human reproductive or developmental toxicants.
8.2B	Substances that are corrosive to dermal tissue UN PGII.
9.1A	Substances that are very ecotoxic in the aquatic environment.
9.1B	Substances that are ecotoxic in the aquatic environment.
9.1C	Substances that are harmful in the aquatic environment.
9.1D	Substances that are slightly harmful to the aquatic environment or are otherwise designed for biocidal action.

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:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

CLP: Classification, Labeling, Packaging.

EINECS: European Inventory of Existing Commercial Chemical Substances.

INCI: International Nomenclature of Cosmetic Ingredients.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

GefStoffVO: Ordinance on Hazardous Substances, Germany.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

DNEL: Derived No Effect Level.

PNEC: Predicted No Effect Concentration.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

WGK: German Water Hazard Class.

KSt: Explosion coefficient.

HSNO: Hazardous Substances and New Organisms Act 1996.