

## Safety Data Sheet

### MAPEPROOF 1K TURBO

Safety Data Sheet dated: 29/06/2020 - version 2

Date of first edition: 28/08/2019



## 1. Identification

### GHS Product identifier

Mixture identification:

Trade name: MAPEPROOF 1K TURBO

Trade code: 9028218

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

Recommended use: Polyurethane primer

Uses advised against: Data not available

### Supplier's details

Company: MAPEI AUSTRALIA Pty Ltd

180 Viking Drive Wacol QLD 4076 Australia

Responsible: sales@mapei.com.au

### 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.   |
| Resp. Sens. 1 | May cause allergy or asthma symptoms or breathing difficulties if inhaled.   |
| Skin Sens. 1  | May cause an allergic skin reaction.   |
| Carc. 2       | Suspected of causing cancer if inhaled, in contact with skin and if swallowed.                                       |
| STOT SE 3     | May cause respiratory irritation.  |
| STOT RE 2     | May cause damage to organs through prolonged or repeated exposure if inhaled, in contact with skin and 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:

|      |  |
|------|--|
| H315 | Causes skin irritation.  |
| H317 | May cause an allergic skin reaction.   |
| H319 | Causes serious eye irritation.   |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled.   |
| H335 | May cause respiratory irritation.  |
| H351 | Suspected of causing cancer if inhaled, in contact with skin and if swallowed.                                       |
| H373 | May cause damage to organs through prolonged or repeated exposure if inhaled, in contact with skin and if swallowed. |

#### Precautionary statements:

|      |   |
|------|---|
| P201 | Obtain special instructions before use.                                   |
| P202 | Do not handle until all safety precautions have been read and understood. |
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray.                          |
| P264 | Wash hands thoroughly after handling.                                     |

|                |  |
|----------------|--|
| P271           | Use only outdoors or in a well-ventilated area.  |
| P280           | Wear protective gloves/protective clothing/eye protection/face protection.   |
| P285           | In case of inadequate ventilation wear respiratory protection.   |
| P302+P352      | IF ON SKIN: Wash with plenty of soap and water.  |
| 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. |
| P308+P313      | IF exposed or concerned: Get medical advice/attention.   |
| P312           | Call a POISON CENTER or doctor/physician if you feel unwell.   |
| P314           | Get medical advice/attention if you feel unwell.   |
| P321           | Specific treatment (see supplementary instructions on this label).   |
| P333+P313      | If skin irritation or rash occurs: Get medical advice/attention.   |
| P337+P313      | If eye irritation persists: Get medical advice/attention.  |
| P342+P311      | If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.  |
| P362           | Take off contaminated clothing and wash before reuse.  |
| P403+P233      | Store in a well-ventilated place. Keep container tightly closed.   |
| P501           | Dispose of contents/container in accordance with applicable regulations.   |

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

Other Hazards: No other hazards

**3. Composition/information on ingredients**

**Substances**

no data available

**Mixtures**

Mixture identification: MAPEPROOF 1K TURBO

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

| Quantity    | Name   | Ident. Numb.  | Classification   | Registration Number   |
|-------------|--|---|--|-----------------------|
| ≥25 - <50 % | 4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate     | CAS:101-68-8<br>EC:202-966-0<br>Index:615-005-00-9  | Acute Tox. 4, H332; Eye Irrit. 2A, H319; STOT SE 3, H335; Skin Irrit. 2, H315; Resp. Sens. 1, H334; Skin Sens. 1, H317; STOT RE 2, H373; Carc. 2, H351 | 01-2119457014-47      |
| ≥25 - <50 % | prepolymer based on aromatic polyisocyanate                                | CAS:67815-87-6<br>EC:polymer                        | Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Resp. Sens. 1, H334; Skin Sens. 1, H317; STOT SE 3, H335; STOT RE 2, H373                |                       |
| ≥20 - <25 % | o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate | CAS:5873-54-1<br>EC:227-534-9<br>Index:615-005-00-9 | Carc. 2, H351; STOT RE 2, H373; Eye Irrit. 2A, H319; STOT SE 3, H335; Skin Irrit. 2, H315; Resp. Sens. 1, H334; Skin Sens. 1, H317; Acute Tox. 4, H332 | 01-2119480143-45-0000 |
| ≥5 - <10 %  | diphenylmethanediisocyanate isomers and homologues                         | CAS:9016-87-9<br>EC:618-498-9<br>Index:615-005-00-9 | Acute Tox. 4, H332; Eye Irrit. 2A, H319; STOT SE 3, H335; Skin Irrit. 2, H315; Resp. Sens. 1, H334; Skin Sens. 1, H317; STOT RE 2, H373; Carc. 2, H351 |                       |
| ≥2.5 - <5 % | 2,2'-methylenediphenyl diisocyanate; diphenylmethane-2,2'-diisocyanate     | CAS:2536-05-2<br>EC:219-799-4<br>Index:615-005-00-9 | Carc. 2, H351; STOT RE 2, H373; Eye Irrit. 2A, H319; STOT SE 3, H335; Skin Irrit. 2, H315; Resp. Sens. 1, H334; Skin Sens. 1, H317; Acute Tox. 4, H332 | 01-2119927323-43-XXXX |

**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:

If breathing is irregular or stopped, administer artificial respiration.

In case of inhalation, consult a doctor immediately and show him packing or label.

### **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: no data available

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.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

Use appropriate respiratory protection.

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.

Exercise the greatest care when handling or opening the container.

Do not use on extensive surface areas in premises where there are occupants.

Use localized ventilation system.

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**

Always keep in a well ventilated place.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

## 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/m <sup>3</sup> | Long Term ppm | Short Term mg/m <sup>3</sup> | Short Term ppm | Behaviour   | Note  |
|--|-----------|----------------|---------|-----------------------------|---------------|------------------------------|----------------|---|---|
| 4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate     | National  | NORWAY         |         | 0.050                       | 0.005         |                              |                |   | A 4   |
|  | National  | SWEDEN         | C       | 0.030                       | 0.002         | 0.050                        | 0.005          |   | SWEDEN, Ceiling limit value   |
|  | ACGIH     | NNN            |         |                             | 0.005         |                              |                |   | Resp sens   |
|  | National  | POLAND         |         | 0.030                       |               | 0.090                        |                |   |   |
|  | National  | AUSTRIA        |         | 0.050                       | 0.005         | 0.100                        | 0.010          |   |   |
|  | ACGIH     | NNN            |         |                             | 0.005         |                              |                |   | respiratory sensitization (listed under Methylene bisphenyl isocyanate (MDI)) |
|  | AUS       | AUSTRALIA      |         | 0.020                       |               | 0.070                        |                |   |   |
|  | OSHA      | NNN            | C       |                             |               | 0.200                        | 0.020          |   |   |
|  | National  | SWEDEN         |         | 0.030                       | 0.002         |                              |                |   |   |
|  | National  | FRANCE         |         | 0.100                       | 0.010         | 0.200                        | 0.020          |   |   |
|  | National  | SPAIN          |         | 0.052                       | 0.005         |                              |                |   |   |
|  | National  | DENMARK        |         | 0.050                       | 0.005         |                              |                |   |   |
|  | National  | GERMANY        |         | 0.050                       |               |                              |                |   |   |
|  | National  | PORTUGAL       |         |                             | 0.005         |                              |                |   |   |
|  | National  | BELGIUM        |         | 0.052                       | 0.005         |                              |                |   |   |
|  | National  | CZECH REPUBLIC |         | 0.050                       |               |                              |                |   |   |
|  | National  | HUNGARY        |         | 0.05                        |               | 0.050                        |                |   |   |
|  | National  | ESTONIA        |         | 0.050                       | 0.005         | 0.100                        | 0.010          |   |   |
|  | National  | CZECH REPUBLIC | C       |                             |               | 0.100                        |                |   |   |
|  | National  | SLOVAKIA       |         | 0.002                       |               |                              |                |   |   |
| National   | SLOVAKIA  |                | 0.030   |                             |               |                              |                |   |   |
| National   | SLOVENIA  |                | 0.050   |                             | 0.050         |                              |                |   |   |
| National   | ROMANIA   |                |         |                             | 0.150         |                              |                |   |   |
| National   | LITHUANIA |                | 0.050   | 0.005                       |               |                              |                |   |   |
| National   | LITHUANIA | C              |         |                             | 0.100         | 0.010                        |                |   |   |
| ACGIH  |           |                |         | 0.005                       |               |                              |                | respiratory sensitization (listed under Methylene bisphenyl isocyanate (MDI)) |   |
| OSHA   |           | C              |         |                             |               | 0.2                          | 0.02           |   |   |
| National   | NORWAY    |                | 0.05    | 0.005                       |               |                              | 0.01           |   |   |
| National   | SLOVENIA  |                | 0.05    | 0.005                       | 0.05          | 0.005                        |                |   |   |
| National   | GERMANY   |                | 0.05    |                             |               |                              |                |   |   |
| o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate | National  | SLOVENIA       |         | 0.05                        |               | 0.05                         |                |   |   |

|  |          |           |       |       |
|--|----------|-----------|-------|-------|
| diphenylmethanediisocyanate isomers and homologues                     | AUS      | AUSTRALIA | 0.020 | 0.070 |
|  | National | GERMANY   | 0.050 |       |
|  | National | SLOVENIA  | 0.05  | 0.05  |
| 2,2'-methylenediphenyl diisocyanate; diphenylmethane-2,2'-diisocyanate | ACGIH    | NNN       | 0.051 |       |
|  | National | GERMANY   | 0.05  |       |
|  | National | SLOVENIA  | 0.05  | 0.05  |

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

| Component  | CAS-No.   | PNEC Limit     | Exposure Route                      | Exposure Frequency Remark |
|--|-----------|----------------|-------------------------------------|---------------------------|
| 4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate     | 101-68-8  | 1 mg/l         | Fresh Water                         |                           |
|  |           | 0.1 mg/l       | Marine water                        |                           |
|  |           | 1 mg/kg        | Soil                                |                           |
|  |           | 1 mg/l         | Microorganisms in sewage treatments |                           |
|  |           | 10.000000 mg/l | Intermittent release                |                           |
| o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate | 5873-54-1 | 1 mg/l         | Fresh Water                         |                           |
|  |           | 0.1 mg/l       | Marine water                        |                           |
|  |           | 1 mg/kg        | Soil                                |                           |
|  |           | 1 mg/l         | Microorganisms in sewage treatments |                           |
|  |           |                |                                     |                           |
| 2,2'-methylenediphenyl diisocyanate; diphenylmethane-2,2'-diisocyanate     | 2536-05-2 | 1 mg/l         | Fresh Water                         |                           |
|  |           | 0.1 mg/kg      | Marine water                        |                           |
|  |           | 1 mg/l         | Soil                                |                           |
|  |           | 1 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'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate | 101-68-8 | 50 mg/kg          |                     |          | Human Dermal     | Short Term, systemic effects |
|  |          | 0.1 mg/m3         |                     |          | Human Inhalation | Short Term, systemic effects |
|  |          | 0.1 mg/m3         |                     |          | Human Inhalation | Short Term, local effects    |
|  |          | 0.05 mg/m3        |                     |          | Human Inhalation | Long Term, systemic effects  |
|  |          | 0.05 mg/m3        |                     |          | Human Inhalation | Long Term, local effects     |
|  |          |                   |                     | 25 mg/kg |                  | Human Dermal                 |

|   |           |                         |                         |                  |                              |
|---|-----------|-------------------------|-------------------------|------------------|------------------------------|
|   |           |                         | 0.05 mg/m <sup>3</sup>  | Human Inhalation | Short Term, systemic effects |
|   |           |                         | 20 mg/kg                | Human Oral       | Short Term, systemic effects |
|   |           |                         | 0.05 mg/m <sup>3</sup>  | Human Inhalation | Short Term, local effects    |
|   |           |                         | 0.025 mg/m <sup>3</sup> | Human Inhalation | Long Term, systemic effects  |
|   |           |                         | 0.025 mg/m <sup>3</sup> | Human Inhalation | Long Term, local effects     |
|   |           | 28.7 mg/cm <sup>2</sup> | 17.2 mg/cm <sup>2</sup> | Human Dermal     | Short Term, local effects    |
| o-(p-isocyanatobenzyl)phenyl isocyanate;<br>diphenylmethane-2,4'-diisocyanate | 5873-54-1 | 50 mg/kg                | 25 mg/kg                | Human Dermal     | Short Term, systemic effects |
|   |           | 0.1 mg/m <sup>3</sup>   | 0.05 mg/m <sup>3</sup>  | Human Inhalation | Short Term, systemic effects |
|   |           | 28.7 mg/cm <sup>2</sup> | 17.2 mg/cm <sup>2</sup> | Human Dermal     | Short Term, local effects    |
|   |           | 0.1 mg/m <sup>3</sup>   | 0.05 mg/m <sup>3</sup>  | Human Inhalation | Short Term, local effects    |
|   |           | 0.05 mg/m <sup>3</sup>  | 0.025 mg/m <sup>3</sup> | Human Inhalation | Long Term, systemic effects  |
|   |           | 0.05 mg/m <sup>3</sup>  | 0.025 mg/m <sup>3</sup> | Human Inhalation | Long Term, local effects     |
|   |           |                         | 20 mg/kg                | Human Oral       | Short Term, systemic effects |
| 2,2'-methylenediphenyl diisocyanate;<br>diphenylmethane-2,2'-diisocyanate     | 2536-05-2 | 50 mg/kg                | 25 mg/kg                | Human Dermal     | Short Term, systemic effects |
|   |           | 0.1 mg/m <sup>3</sup>   | 0.05 mg/m <sup>3</sup>  | Human Inhalation | Short Term, systemic effects |
|   |           | 28.7 mg/cm <sup>2</sup> | 17.2 mg/cm <sup>2</sup> | Human Dermal     | Short Term, local effects    |
|   |           | 0.1 mg/m <sup>3</sup>   | 0.05 mg/m <sup>3</sup>  | Human Inhalation | Short Term, local effects    |
|   |           | 0.05 mg/m <sup>3</sup>  | 0.025 mg/m <sup>3</sup> | Human Inhalation | Long Term, systemic effects  |
|   |           | 0.05 mg/m <sup>3</sup>  | 0.025 mg/m <sup>3</sup> | Human Inhalation | Long Term, local effects     |
|   |           |                         | 20 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:

Use respiratory protection where ventilation is insufficient or exposure is prolonged.

Use adequate protective respiratory equipment.

## 9. Physical and chemical properties

Color: light brown  
Appearance: Liquid  
Odour: Characteristic  
Odour threshold: no data available  
pH: no data available  
Melting point / freezing point: no data available  
Initial boiling point and boiling range: 350 °C (662 °F)  
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: no data available  
Relative density: no data available  
Solubility in water: insoluble, reacts  
Solubility in oil: no data available  
Partition coefficient (n-octanol/water): no data available  
Auto-ignition temperature: no data available  
Decomposition temperature: no data available  
Viscosity: 300.00 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) : 0 (Rule 1113) 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:

4,4'-methylenediphenyl diisocyanate;  
diphenylmethane-4,4'-

|                   |                            |
|-------------------|----------------------------|
| a) acute toxicity | LD50 Oral Rat > 2000 mg/kg |
|-------------------|----------------------------|

diisocyanate

LD50 Skin Rabbit > 9400 mg/kg  
LC50 Inhalation Dust Rat = 0.368 mg/l 4h  
LC50 Inhalation Rat = 369 mg/m3 4h  
LD50 Oral Rat = 31600 mg/kg

- b) skin corrosion/irritation Skin Irritant Skin Rabbit Positive  
d) respiratory or skin sensitisation Skin Sensitization Skin Mouse Positive  
Respiratory Sensitization Inhalation Positive  
f) carcinogenicity Carcinogenicity Inhalation Rat = 6 mg/m3 2 y  
g) reproductive toxicity NOAEL Inhalation Rat = 12 mg/m3 20 d

prepolymer based on aromatic polyisocyanate

- a) acute toxicity LD50 Skin Rat > 9400 mg/kg  
LC50 Inhalation Rat 310 mg/m3 4h  
LD50 Oral Rat > 2000 mg/kg  
b) skin corrosion/irritation Skin Irritant Positive  
d) respiratory or skin sensitisation Skin Sensitization Mouse Positive  
e) germ cell mutagenicity NOAEL Inhalation Rat = 12 mg/m3

o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate

- a) acute toxicity LD50 Skin Rabbit > 9400 mg/kg  
LD50 Oral Rat > 2000 mg/kg  
e) germ cell mutagenicity NOAEL Inhalation Rat = 12 mg/m3

diphenylmethanediisocyanate isomers and homologues

- a) acute toxicity LD50 Oral Rat > 10000 mg/kg  
LD50 Skin Rabbit > 9400 mg/kg  
LC50 Inhalation Dust Rat = mg/l 4h  
LD50 Skin Rabbit > 9.4 g/kg  
LC50 Inhalation Rat = 490 mg/m3 4h  
LD50 Oral Rat = 49 g/kg  
g) reproductive toxicity NOAEL Inhalation Rat = 12 mg/m3

2,2'-methylenediphenyl diisocyanate; diphenylmethane-2,2'-diisocyanate

- a) acute toxicity LD50 Oral Rat > 2000 mg/kg  
LC50 Inhalation Dust Rat = 0.527 mg/l 4h  
LD50 Skin Rabbit > 9400 mg/kg  
e) germ cell mutagenicity NOAEL Inhalation Rat = 12 mg/m3

**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

Toxicological kinetics, metabolism  
and distribution information

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'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate     | CAS: 101-68-8 -<br>EINECS: 202-966-0<br>- INDEX: 615-005-00-9  | a) Aquatic acute toxicity : LC50 Fish > 1000 mg/L 96<br><br>a) Aquatic acute toxicity : EC50 Daphnia > 1000 mg/L 24<br>b) Aquatic chronic toxicity : NOEC Daphnia > 10 mg/L - 21 d<br>a) Aquatic acute toxicity : EC50 Algae > 1640 mg/L 72<br>c) Bacteria toxicity : EC50 > 100 mg/L 3<br>d) Terrestrial toxicity : NOEC > 1000 mg/kg - 14 d<br>e) Plant toxicity : NOEC > 1000 mg/kg - 14 d |
| prepolymer based on aromatic polyisocyanate                                | CAS: 67815-87-6 -<br>EINECS: polymer                           | a) Aquatic acute toxicity : LC50 Fish > 1000 mg/L 96<br><br>a) Aquatic acute toxicity : EC50 Daphnia > 1000 mg/L 24<br>b) Aquatic chronic toxicity : NOEC Daphnia > 10 mg/L - 21 d<br>a) Aquatic acute toxicity : EC50 Algae > 1640 mg/L 72<br>c) Bacteria toxicity : EC50 > 100 mg/L 3   |
| o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate | CAS: 5873-54-1 -<br>EINECS: 227-534-9<br>- INDEX: 615-005-00-9 | a) Aquatic acute toxicity : LC50 Fish > 1000 mg/L 96<br><br>a) Aquatic acute toxicity : EC50 Daphnia > 1000 mg/L 24<br>b) Aquatic chronic toxicity : NOEC Daphnia > 10 mg/L - 21 d<br>a) Aquatic acute toxicity : EC50 Algae > 1640 mg/L 72<br>c) Bacteria toxicity : EC50 > 100 mg/L 3<br>d) Terrestrial toxicity : NOEC > 1000 mg/kg - 14 d<br>e) Plant toxicity : NOEC > 1000 mg/kg - 14 d |
| diphenylmethanediisocyanate isomers and homologues                         | CAS: 9016-87-9 -<br>EINECS: 618-498-9<br>- INDEX: 615-005-00-9 | a) Aquatic acute toxicity : LC50 Fish > 1000 mg/L 96<br><br>a) Aquatic acute toxicity : EC50 Daphnia > 1000 mg/L 24<br>b) Aquatic chronic toxicity : NOEC Daphnia > 10 mg/L - 21 d<br>a) Aquatic acute toxicity : EC50 Algae > 1640 mg/L 72<br>c) Bacteria toxicity : EC50 > 100 mg/L 3<br>d) Terrestrial toxicity : NOEC > 1000 mg/kg - 14 d<br>e) Plant toxicity : NOEC > 1000 mg/kg - 14 d |
| 2,2'-methylenediphenyl diisocyanate; diphenylmethane-2,2'-diisocyanate     | CAS: 2536-05-2 -<br>EINECS: 219-799-4<br>- INDEX: 615-005-00-9 | a) Aquatic acute toxicity : LC50 Fish > 1000 mg/L 96<br><br>a) Aquatic acute toxicity : EC50 Daphnia > 1000 mg/L 24<br>b) Aquatic chronic toxicity : NOEC Daphnia > 10 mg/L - 21 d<br>a) Aquatic acute toxicity : EC50 Algae > 1640 mg/L 72<br>c) Bacteria toxicity : EC50 > 100 mg/L 3   |

e) Plant toxicity : NOEC > 1000 mg/kg - 14 d  
d) Terrestrial toxicity : NOEC > 1000 mg/kg - 14 d

#### **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**

Not classified as dangerous in the meaning of transport regulations.

#### **UN number**

no data available

#### **UN proper shipping name**

no data available

#### **Transport hazard class(es)**

no data available

#### **Packing group, if applicable**

no data available

#### **Environmental hazards**

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>   |
|-------------|--|
| H315        | Causes skin irritation.  |
| H317        | May cause an allergic skin reaction.   |
| H319        | Causes serious eye irritation.   |
| H332        | Harmful if inhaled.  |
| H334        | May cause allergy or asthma symptoms or breathing difficulties if inhaled.   |
| H335        | May cause respiratory irritation.  |
| H351        | Suspected of causing cancer.   |
| H351        | Suspected of causing cancer if inhaled, in contact with skin and if swallowed.                                       |
| H373        | May cause damage to organs through prolonged or repeated exposure.   |
| H373        | May cause damage to organs through prolonged or repeated exposure if inhaled.  |
| H373        | May cause damage to organs through prolonged or repeated exposure if inhaled, in contact with skin and if swallowed. |

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:**

- Safety Data Sheet
- 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
- 2. HAZARDS IDENTIFICATION
- 3. COMPOSITION/INFORMATION ON INGREDIENTS
- 5. FIRE-FIGHTING MEASURES
- 7. HANDLING AND STORAGE
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 9. PHYSICAL AND CHEMICAL PROPERTIES
- 11. TOXICOLOGICAL INFORMATION
- 12. ECOLOGICAL INFORMATION
- 14. TRANSPORT INFORMATION