

# MATERIAL SAFETY DATA SHEET

## PU CEMENT Screed

### Epoxy Resin – Part A

HAZARDOUS ACCORDING TO THE CRITERIA OF SAFE WORK AUSTRALIA (NOHSC)

#### 1. IDENTIFICATION OF MATERIAL AND SUPPLIER

##### Identification of Material

**Product name:** PU CEMENT Screed (Party A) - Resin  
**Product code:**  
**Intended use:** Epoxy Resin – Part A  
**Chemical Name:** Bisphenol-A- Epoxy Resin

##### Identification of the Company

**Manufacturer / Supplier:** SHIMICOAT Pty Ltd, 9a Morse Road, BIBRA LAKE WA 6163  
**Phone:** (+61) (08) 9434 3302  
**E-mail:** [info@shimi.com.au](mailto:info@shimi.com.au)  
**Website:** [www.shimi.com.au](http://www.shimi.com.au)  
**Emergency phone number:** Poisons Information Centre  
 Phone (Australia 13 1126; New Zealand 03 4747000)

##### Additional Information:

It is the user's responsibility to determine the suitability of this product for their applications and their methods of use.

##### Other Information:

THIS MSDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE. IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT SHIMICOAT SO WE CAN ATTEMPT TO PROVIDE ADDITIONAL INFORMATION. OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS AVAILABLE ON OUR WEBSITE, SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST BY EMAIL OR POST.

#### 2. HAZARD IDENTIFICATION

##### Classification of the substance or mixture

##### Classification (EC 1272/2008)

**Physical hazards** Not Classified  
**Health hazards** Acute Tox. 4 - H302 Skin Sens. 1 - H317  
**Environmental hazards** Aquatic Chronic 3 - H412



##### GHS label elements

##### Hazard pictograms

**Signal word:** **WARNING**

##### Hazard statements

H302 Harmful if swallowed.  
 H317 May cause an allergic skin reaction.  
 H412 Harmful to aquatic life with long lasting effects.

##### Precautionary statements

P261 Avoid breathing vapour/ spray.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
 P301+P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.  
 P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.  
 P501 Dispose of contents/ container in accordance with national regulations.

**Contains**

Propane-1,2-diol, propoxylated, Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

**Supplementary precautionary statements**

- P264 Wash contaminated skin 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.
- P302+P352 IF ON SKIN: Wash with plenty of water.
- P362+P364 Take off contaminated clothing and wash it before reuse.

**Other hazards**

This product does not contain any substances classified as PBT or vPvB.

**3. COMPOSITION AND INFORMATION ON INGREDIENTS**

Name	CAS Number	Concentration
Propane-1,2-diol, Propoxylated	25322-69-4	>60%
Ingredients determined to be non-hazardous	N/A	balance

**4. FIRST AID MEASURES**

**Description of first aid measures**

**General information**

Get medical attention immediately. Show this Safety Data Sheet to the medical personnel.

**Inhalation**

Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Place unconscious person on their side in the recovery position and ensure breathing can take place.

**Ingestion**

Rinse mouth thoroughly with water. Remove any dentures. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Place unconscious person on their side in the recovery position and ensure breathing can take place. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.

**Skin contact**

It is important to remove the substance from the skin immediately. In the event of any sensitisation symptoms developing, ensure further exposure is avoided. Remove contamination with soap and water or recognised skin cleansing agent. Get medical attention if symptoms are severe or persist after washing.

**Eye contact**

Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes.

**Protection of first aiders**

First aid personnel should wear appropriate protective equipment during any rescue. If it is suspected that volatile contaminants are still present around the affected person, first aid personnel should wear an appropriate respirator or self-contained breathing apparatus. Wash contaminated clothing thoroughly with water before removing it from the affected person, or wear gloves. It may be dangerous for first aid personnel to carry out mouth-to-mouth resuscitation.

**Most important symptoms and effects, both acute and delayed**

**General information**

See Section 11 for additional information on health hazards. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

**Inhalation**

Prolonged inhalation of high concentrations may damage respiratory system.

**Ingestion**

May cause sensitisation or allergic reactions in sensitive individuals. May cause discomfort if swallowed. Stomach pain. Nausea, vomiting.

**Skin contact**

May cause skin sensitisation or allergic reactions in sensitive individuals. Prolonged contact may cause dryness of the skin.

**Eye contact**

May cause temporary eye irritation.

**Indication of any immediate medical attention and special treatment needed****Notes for the doctor**

Treat symptomatically. May cause sensitisation or allergic reactions in sensitive individuals.

**5. FIREFIGHTING MEASURES****Extinguishing media****Suitable extinguishing media**

The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

**Unsuitable extinguishing media**

Do not use water jet as an extinguisher, as this will spread the fire.

**Special hazards arising from the substance or mixture****Specific hazards**

Containers can burst violently or explode when heated, due to excessive pressure build-up. This product is toxic. **Hazardous combustion products**

Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours.

**Advice for firefighters****Protective actions during firefighting**

Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

**Special protective equipment for firefighters**

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures****Personal precautions**

No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Wash thoroughly after dealing with a spillage. Ensure procedures and training for emergency decontamination and disposal are in place. Do not touch or walk into spilled material. Avoid contact with skin and eyes.

**Environmental precautions Environmental precautions**

Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment. Large Spillages: Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).

**Methods and material for containment and cleaning up.**

Methods for cleaning up Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Provide adequate ventilation. Approach the spillage from upwind. Small Spillages: If the product is soluble in water, dilute the spillage with water and mop it up. Alternatively, or if it is not water-soluble, absorb the spillage with an inert, dry material and place it in a suitable waste disposal container.

Large Spillages: If leakage cannot be stopped, evacuate area. Flush spilled material into an effluent treatment plant, or proceed as follows. Contain and absorb spillage with sand, earth or other non-combustible material. Place waste in labelled, sealed containers. Clean contaminated objects and areas thoroughly, observing environmental regulations. The contaminated absorbent may pose the

same hazard as the spilled material. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dangerous for the environment. Do not empty into drains. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

**Reference to other sections**

For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Usage precautions**

Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimise spills. Keep container tightly sealed when not in use. Avoid the formation of mists. Avoid discharge to the aquatic environment. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.

**Advice on general occupational hygiene**

Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily before leaving workplace.

**Conditions for safe storage, including any incompatibilities**

**Storage precautions**

Store in accordance with local regulations. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage. Bund storage facilities to prevent soil and water pollution in the event of spillage. The storage area floor should be leak-tight, jointless and not absorbent. Storage class Toxic storage.

**Specific end use(s)**

The identified uses for this product are detailed in Section 1.2.

**8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**

**Control parameters / Occupational exposure limits**

**1-Methoxy-2-propanol**

Long-term exposure limit (8-hour TWA): WEL 100 ppm 375 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 150 ppm 560 mg/m<sup>3</sup>

**Ethyl Formate**

Long-term exposure limit (8-hour TWA): WEL 100 ppm 308 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 150 ppm 462 mg/m<sup>3</sup>

**Ethanol**

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1920 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

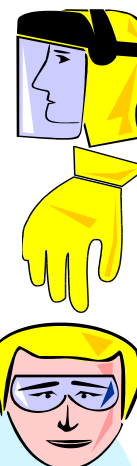
Sk = Can be absorbed through the skin

**Exposure controls**

**Protective equipment**

**Appropriate engineering controls**

Provide adequate ventilation. Personal, workplace environment or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Use process enclosures, local exhaust ventilation or other engineering controls as the primary means to minimise worker exposure. Personal protective equipment should only be used if worker exposure cannot be controlled adequately by the engineering control measures. Ensure control measures are regularly inspected and maintained. Ensure operatives are trained to minimise exposure.



**Eye/face protection**

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with European Standard EN166. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses. Hand protection Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with European Standard EN374. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.

**Other skin and body protection**

Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.

**Hygiene measures**

Provide eyewash station and safety shower. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke. Preventive industrial medical examinations should be carried out. Warn cleaning personnel of any hazardous properties of the product.

**Respiratory protection**

Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with European Standard EN14387. Full face mask respirators with replaceable filter cartridges should comply with European Standard EN136. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140.

**Environmental exposure controls**

Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

<b>Appearance:</b>	Liquid.
<b>Colour:</b>	Colourless.
<b>Odour:</b>	Characteristic.
<b>pH:</b>	Not available.
<b>Melting point:</b>	Not available.
<b>Initial boiling point and range:</b>	Not available.
<b>Flash point:</b>	Not available.
<b>Evaporation rate:</b>	Not available.
<b>Flammability (solid, gas):</b>	Not available.
<b>Upper/lower flammability or explosive limits:</b>	Not available.
<b>Vapour pressure:</b>	Not available.
<b>Vapour density:</b>	Not available.
<b>Bulk density:</b>	1.16 kg/l
<b>Solubility(ies):</b>	Not available.
<b>Partition coefficient:</b>	Not available.
<b>Auto-ignition temperature:</b>	Not available.
<b>Decomposition Temperature:</b>	Not available.
<b>Viscosity:</b>	775 mPa s @ 23°C/73.4°F
<b>Explosive properties:</b>	Not considered to be explosive.

**Oxidising properties:** Does not meet the criteria for classification as oxidising.

## 10. STABILITY AND REACTIVITY

### Reactivity

There are no known reactivity hazards associated with this product.

### Chemical stability

Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.

### Possibility of hazardous reactions

No potentially hazardous reactions known.

### Conditions to avoid

There are no known conditions that are likely to result in a hazardous situation.

### Incompatible materials

Materials to avoid No specific material or group of materials is likely to react with the product to produce a hazardous situation.

### Hazardous decomposition products

Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours.

## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

#### Acute toxicity – oral

Notes (oral LD<sub>50</sub>)

Acute Tox. 4 - H302 Harmful if swallowed.

ATE oral (mg/kg)

1,020.41

#### Acute toxicity – dermal Notes (dermal LD<sub>50</sub>)

Based on available data the classification criteria are not met.

#### Acute toxicity - inhalation Notes (inhalation LC<sub>50</sub>)

Based on available data the classification criteria are not met.

#### Skin corrosion/irritation Animal data

Based on available data the classification criteria are not met.

#### Serious eye damage/irritation

Based on available data the classification criteria are not met.

#### Respiratory sensitization

Based on available data the classification criteria are not met.

#### Skin sensitisation

May cause skin sensitisation or allergic reactions in sensitive individuals.

#### Germ cell mutagenicity Genotoxicity - in vitro

Based on available data the classification criteria are not met.

#### Carcinogenicity

Based on available data the classification criteria are not met.

#### IARC carcinogenicity

Contains a substance/a group of substances which may cause cancer. IARC Group 1 Carcinogenic to humans.

#### Reproductive toxicity – fertility

Based on available data the classification criteria are not met.

#### Reproductive toxicity - development

Based on available data the classification criteria are not met.

#### Specific target organ toxicity - single exposure

STOT - single exposure Not classified as a specific target organ toxicant after a single exposure.

#### Specific target organ toxicity - repeated exposure

STOT - repeated exposure

Not classified as a specific target organ toxicant after repeated exposure.

#### Aspiration hazard

Based on available data the classification criteria are not met.

#### General information

The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

#### Inhalation

Prolonged inhalation of high concentrations may damage respiratory system.

#### Ingestion

May cause sensitisation or allergic reactions in sensitive individuals. May cause discomfort if swallowed. Stomach pain. Nausea, vomiting.

#### Skin contact

May cause skin sensitisation or allergic reactions in sensitive individuals. Prolonged contact may cause dryness of the skin.

#### Eye contact

May cause temporary eye irritation.

#### Route of entry

Ingestion Inhalation Skin and/or eye contact

#### Target organs

No specific target organs known.

**Medical considerations** Skin disorders and allergies.

**Toxicological information on ingredients.**

**Propane-1,2-diol, propoxylated**

**Acute toxicity – oral**

**ATE oral (mg/kg)** 500.0

Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

**Acute toxicity – oral**

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 3,230.0

**Species** Rat

**ATE oral (mg/kg)** 3,230.0

**1-Methoxy-2-propanol**

**Acute toxicity - oral**

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 3,739.0

**Species** Rat

**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub> 3739 mg/kg, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

**ATE oral (mg/kg)** 3,739.0

**Acute toxicity – dermal** Notes (dermal LD<sub>50</sub>) LD<sub>50</sub> >2000 mg/kg, Dermal, Rat REACH dossier information. Based on available data the classification criteria are not met.

**Skin corrosion/irritation**

**Animal data**

Dose: 0.5 mL, 4 hours, Rabbit Erythema/eschar score: No erythema (0). Oedema score: No oedema (0). REACH dossier information. Based on available data the classification criteria are not met.

**Skin sensitization**

**Skin sensitization**

Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising. REACH dossier information. Based on available data the classification criteria are not met.

**Germ cell mutagenicity**

**Genotoxicity - in vitro**

Gene mutation: Negative. REACH dossier information. Based on available data the classification criteria are not met.

**Genotoxicity - in vivo**

Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.

**Carcinogenicity**

NOEL 3000 ppm, Inhalation, Mouse REACH dossier information. Based on available data the classification criteria are not met.

**Reproductive toxicity – fertility**

Two-generation study - NOAEL 1000 ppm, Inhalation, Rat F1 REACH dossier information. Based on available data the classification criteria are not met.

**Reproductive toxicity – development**

Teratogenicity: - NOAEL: 1500 ppm, Inhalation, Rat REACH dossier information. Based on available data the classification criteria are not met.

**Specific target organ toxicity - single exposure**

**STOT - single exposure**

STOT SE 3 - H336 May cause drowsiness or dizziness. REACH dossier information.

**Target organs**

Central nervous system Brain

**Specific target organ toxicity - repeated exposure**

**STOT - repeated exposure**

NOAEL 919 mg/kg/day, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

**Ethyl Formate**

**Acute toxicity – oral**

**ATE oral (mg/kg)** 500.0

<b>Acute toxicity - inhalation</b>	
ATE inhalation (gases ppm)	4,500.0
ATE inhalation (vapours mg/l)	11.0
ATE inhalation (dusts/mists mg/l)	1.5

**Ethanol**

**Toxicological effects**

Not regarded as a health hazard under current legislation.

**Acute toxicity – oral**  
**Notes (oral LD<sub>50</sub>)**

LD<sub>50</sub> 10470 mg/kg, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

**Acute toxicity – inhalation**  
**Notes (inhalation LC<sub>50</sub>)**

LD<sub>50</sub> 124.7 mg/l, Inhalation, Rat REACH dossier information. Based on available data the classification criteria are not met.

**Skin corrosion/irritation**  
**Animal data**

Dose: 0.2 mL, 24 hours, Rabbit Primary dermal irritation index: 0 REACH dossier information. Based on available data the classification criteria are not met.

**Skin sensitization**

Local Lymph Node Assay (LLNA) - Mouse: Not sensitising. REACH dossier information. Based on available data the classification criteria are not met.

**Germ cell mutagenicity**  
**Genotoxicity - in vitro**

Gene mutation: Negative. REACH dossier information. Based on available data the classification criteria are not met.

**Genotoxicity - in vivo**

Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.

**Carcinogenicity**  
**IARC carcinogenicity**

IARC Group 1 Carcinogenic to humans.

**Reproductive toxicity - fertility**

Two-generation study - NOAEL 15% , Oral, Mouse REACH dossier information. Based on available data the classification criteria are not met.

**Reproductive toxicity - development**

Maternal toxicity: - NOAEL: 16000 ppm, Inhalation, Rat REACH dossier information. Based on available data the classification criteria are not met.

**Specific target organ toxicity - repeated exposure**  
**STOT - repeated exposure**

LOAEL ~4000 mg/kg, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

**12. ECOLOGICAL INFORMATION**

**Toxicity** long lasting Aquatic Chronic 3 - H412 Harmful to aquatic life with effects.

**Ecological information on ingredients.**

Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

<b>Acute aquatic toxicity</b>	
LE(C) <sub>50</sub>	0.1 < L(E)C50 ≤ 1
M factor (Acute)	1

<b>Chronic aquatic toxicity</b>	
M factor (Chronic)	1

**Acute toxicity – fish**

**Acute toxicity - aquatic invertebrates**

**Acute toxicity - aquatic plants**

**Toxicity**  
not met.

**Acute toxicity – fish**

**Acute toxicity - aquatic invertebrates**

**Acute toxicity - aquatic plants**

**Chronic toxicity - aquatic invertebrates**

**Persistence and degradability**

**Ecological information on ingredients.**

**Persistence and degradability**

**Phototransformation**

**Biodegradation**  
information.

**Persistence and degradability**

**Biodegradation**

**Chemical oxygen demand**

**Bioaccumulative potential**

**Partition coefficient**

**Ecological information on ingredients.**

**Bioaccumulative potential**

**Partition coefficient**

**Mobility in soil.**

**Mobility**

**Ecological information on ingredients.**

**Mobility**

**Surface tension**

**Mobility**

**Surface tension**

**Results of PBT and vPvB assessment**

**Ecological information on ingredients.**

**Results of PBT and vPvB assessment**

**1-Methoxy-2-propanol**

LC<sub>50</sub>, 96 hours: 20800 mg/l, Pimephales promelas (Fat-head Minnow) REACH dossier information.

LC<sub>50</sub>, 48 hours: 21100 mg/l, Daphnia magna REACH dossier information.

EC<sub>50</sub>, 7 days: >1000 mg/l, Selenastrum capricornutum REACH dossier information.

**Ethanol**

Based on available data the classification criteria are

LC<sub>50</sub>, 96 hours: 14200 mg/l, Pimephales promelas (Fat-head Minnow)

LC<sub>50</sub>, 48 hours: 5012 mg/l, Ceriodaphnia dubia

EC<sub>50</sub>, 72 hours: 11.5 mg/l, Chlorella vulgaris

NOEC, 9 days: 9.6 mg/l, Daphnia magna

The degradability of the product is not known.

**1-Methoxy-2-propanol**

The substance is readily biodegradable.

Water - DT<sub>50</sub> : 3.1 hours REACH dossier information.

Water - Degradation 96%: 28 days REACH dossier

**Ethanol**

The substance is readily biodegradable.

Water - Degradation 74%: 10 days

1.99 g O<sub>2</sub>/g substance

No data available on bioaccumulation.

Not available.

**1-Methoxy-2-propanol**

No data available on bioaccumulation.

log Pow: -0.35

No data available.

**1-Methoxy-2-propanol**

Mobile.

70.7 mN/m @ 20°C

**Ethanol**

The product is soluble in water.

24.5 mN/m @ 20°C/68°F

**1-Methoxy-2-propanol**

This substance is not classified as PBT or vPvB according to current EU criteria.

**Results of PBT and vPvB assessment**

**Ethanol**

This substance is not classified as PBT or vPvB according to current EU criteria.

**Other adverse effects**

**Other adverse effects**

None known.

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

**General information**

The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

**Disposal methods**

Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Incineration or landfill should only be considered when recycling is not feasible.

**14. TRANSPORT INFORMATION**

**General**

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID). 14.1.

**UN number**

Not applicable.

**UN proper shipping name**

Not applicable.

**Transport hazard class(es)**

No transport warning sign required.

**Packing group**

Not applicable.

**Environmental hazards**

**Environmentally hazardous substance/marine pollutant** No.

**Special precautions for user**

Not applicable.

**Transport in bulk according to Annex II of MARPOL and the IBC Code**

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable.

**15. REGULATORY INFORMATION**

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

**National regulations**

Health and Safety at Work etc. Act 1974 (as amended). The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716). The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"]. EH40/2005 Workplace exposure limits.

**EU legislation**

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Commission Regulation (EU) No 453/2010 of 20 May 2010. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Dangerous Preparations Directive 1999/45/EC. Dangerous Substances Directive 67/548/EEC. 15.2.

**Chemical safety assessment**

No chemical safety assessment has been carried out.

**16. FURTHER INFORMATION**

**Classification procedures according to Regulation (EC) 1272/2008**

Acute Tox. 4 - H302: Skin Sens. 1 - H317: : Calculation method. Aquatic Chronic 3 - H412: : Calculation method.

### Training advice

Read and follow manufacturer's recommendations. Only trained personnel should use this material. Please contact SHIMICOAT for further details.

To the best of our knowledge, this MSDS summarizes the health and safety hazards, which may be posed by the product. However, SHIMICOAT makes no representation with regard to the completeness or accuracy of the information or of any recommendations contained in this data sheet, and it accepts no responsibility for loss or damages whatsoever resulting from the use of, or reliance upon, the information and any recommendations herein.

### REFERENCES

- Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals, February 2016
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### Reason for issue:

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If you are an employer, it is your duty to tell your employees, and any others that may be affected, of any hazards described in this sheet and of any precautions that should be taken.

Safety Data Sheets are updated frequently. Please ensure you have a current copy.

**Product Name:** UVthane PLUS  
**Issued:** 03 Aug 2024  
**Revision:** 3

### Hazchem Code:

Emergency action code of numbers and letters that provide information to emergency services especially fire fighters

IARC: International Agency for Research on Cancer  
IOELV: Indicative Occupational Exposure Limit Value  
LC50: Lethal Concentration, 50 percent  
LD50: Lethal Dose, 50 percent  
NICNAS: National Industrial Notification & Assessment Scheme  
NIOSH: National Institute for Occupational Safety & Health  
NOAEL: No Observed Adverse Effect Level  
NOEC: No Observed Effect Concentration  
NOS: Not otherwise specified  
NTP: National Toxicology Program (USA)  
OEL: Occupational Exposure Limit  
OSHA: Occupational Safety & Health Administration  
PBT: Persistent Bioaccumulative Toxic chemical  
PMCC: Pensky Martens Closed Cup  
PNEC: Predicted No Effect Concentration  
R-Phrase: Risk Phrase  
STEL: Short Term Exposure Limit  
STOT-SE: Specific Target Organ Toxicity (Single Exposure)  
STOT-RE: Specific Target Organ Toxicity (Repeated Exposure)  
SUSMP: Standard for the Uniform Scheduling of Medicines & Poisons  
TWA: Time Weighted Average  
UN Number: United Nations Number  
vPvB: Very Persistent and Very Bioaccumulative

WEEL: Workplace Environmental Exposure Level  
WEL-TWA: Workplace Exposure Limit, Time Weighted Average

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*This information and all further technical advice are based on our present knowledge and experience. The customer is not released from the obligation to conduct careful inspection and testing of supplied goods.*

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# MATERIAL SAFETY DATA SHEET

## PU CEMENT Screed Epoxy Resin – Part B

HAZARDOUS ACCORDING TO THE CRITERIA OF SAFE WORK AUSTRALIA (NOHSC)

### 1. IDENTIFICATION OF MATERIAL AND SUPPLIER

**Identification of Material**

**Product name:** PU CEMENT Screed (Party B) – Curing Agent / Hardener  
**Product code:**  
**Intended use:** Clear Topcoat Sealant/Resin  
**Chemical Name:** Polyurethane Resin, Part B

**Identification of the Company**

**Manufacturer / Supplier:** SHIMICOAT Pty Ltd, 9a Morse Road, BIBRA LAKE WA 6163  
**Phone:** (+61) (08) 9434 3302  
**E-mail:** [info@shimi.com.au](mailto:info@shimi.com.au)  
**Website:** [www.shimi.com.au](http://www.shimi.com.au)  
**Emergency phone number:** Poisons Information Centre  
 Phone (Australia 13 1126; New Zealand 03 4747000)

**Additional Information:**

It is the user's responsibility to determine the suitability of this product for their applications and their methods of use.

**Other Information:**

THIS MSDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE. IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT SHIMICOAT SO WE CAN ATTEMPT TO PROVIDE ADDITIONAL INFORMATION. OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS AVAILABLE ON OUR WEBSITE, SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST BY EMAIL OR POST.

### 2. HAZARD IDENTIFICATION

**Classification of the substance or mixture**

**Classification (EC 1272/2008)**

**Physical hazards** Not Classified  
**Health hazards** Acute Tox. 4 - H332 Skin Sens. 1 - H317 STOT SE 3 - H335  
**Environmental hazards** Not Classified

**GHS label elements**

**Hazard pictograms**

Signal word: **WARNING**



**Hazard statements**

H317 May cause an allergic skin reaction.  
 H332 Harmful if inhaled.  
 H335 May cause respiratory irritation.

**Precautionary statements**

- P261 Avoid breathing vapour/ spray.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
- P302+P352 IF ON SKIN: Wash with plenty of water.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P312 Call a POISON CENTRE/doctor if you feel unwell.
- P501 Dispose of contents/ container in accordance with national regulations.

**Contains** Hexamethylene diisocyanate, oligomers

**Supplementary precautionary statements**

- P271 Use only outdoors or in a well-ventilated area.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.

**Other hazards**

This product does not contain any substances classified as PBT or vPvB.

**3. COMPOSITION AND INFORMATION ON INGREDIENTS**

Name	CAS Number	Concentration
<b>Name</b>	<b>CAS Number</b>	<b>Concentration</b>
Hexamethylene diisocyanate, oligomers	28182-81-2	>60%
Ingredients determined to be non-hazardous	N/A	balance

**4. FIRST AID MEASURES**

**Description of first aid measures**

**General information**

Get medical attention immediately. Show this Safety Data Sheet to the medical personnel.

**Inhalation**

Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Place unconscious person on their side in the recovery position and ensure breathing can take place.

**Ingestion**

Rinse mouth thoroughly with water. Remove any dentures. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Place unconscious person on their side in the recovery position and ensure breathing can take place. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.

**Skin contact**

It is important to remove the substance from the skin immediately. In the event of any sensitisation symptoms developing, ensure further exposure is avoided. Remove contamination with soap and water or recognised skin cleansing agent. Get medical attention if symptoms are severe or persist after washing.

**Eye contact**

Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes.

**Protection of first aiders**

First aid personnel should wear appropriate protective equipment during any rescue. If it is suspected that volatile contaminants are still present around the affected person, first aid personnel should wear an appropriate respirator or self-contained breathing apparatus. Wash contaminated clothing thoroughly with water before removing it from the affected person, or wear gloves. It may be dangerous for first aid personnel to carry out mouth-to-mouth resuscitation.

**Most important symptoms and effects, both acute and delayed**

**General information**

See Section 11 for additional information on health hazards. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

**Inhalation**

Prolonged inhalation of high concentrations may damage respiratory system.

**Ingestion**

May cause sensitisation or allergic reactions in sensitive individuals. May cause discomfort if swallowed. Stomach pain. Nausea, vomiting.

**Skin contact**

May cause skin sensitisation or allergic reactions in sensitive individuals. Prolonged contact may cause dryness of the skin.

**Eye contact**

May cause temporary eye irritation.

**Indication of any immediate medical attention and special treatment needed**

**Notes for the doctor**

Treat symptomatically. May cause sensitisation or allergic reactions in sensitive individuals.

**5. FIREFIGHTING MEASURES**

**Extinguishing media**

**Suitable extinguishing media**

The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

**Unsuitable extinguishing media**

Do not use water jet as an extinguisher, as this will spread the fire.

**Special hazards arising from the substance or mixture**

**Specific hazards**

Containers can burst violently or explode when heated, due to excessive pressure build-up. This product is toxic. **Hazardous combustion products**

Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours.

**Advice for firefighters**

**Protective actions during firefighting**

Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

**Special protective equipment for firefighters**

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions**

No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Wash thoroughly after dealing with a spillage. Ensure procedures and training for emergency decontamination and disposal are in place. Do not touch or walk into spilled material. Avoid contact with skin and eyes.

**Environmental precautions Environmental precautions**

Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment. Large Spillages: Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).

**Methods and material for containment and cleaning up.**

Methods for cleaning up Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Provide adequate ventilation. Approach the spillage from upwind. Small Spillages: If the product is soluble in water, dilute the spillage with water and mop it up. Alternatively, or if it is not water-soluble, absorb the spillage with an inert, dry material and place it in a suitable waste disposal container.

Large Spillages: If leakage cannot be stopped, evacuate area. Flush spilled material into an effluent treatment plant, or proceed as follows. Contain and absorb spillage with sand, earth or other non-combustible material. Place waste in labelled, sealed containers. Clean contaminated objects and areas thoroughly, observing environmental regulations. The contaminated absorbent may pose the same hazard as the spilled material. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dangerous for the environment. Do not empty into drains. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

**Reference to other sections**

For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Usage precautions**

Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimise spills. Keep container tightly sealed when not in use. Avoid the formation of mists. Avoid discharge to the aquatic environment. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.

**Advice on general occupational hygiene**

Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily before leaving workplace.

**Conditions for safe storage, including any incompatibilities**

**Storage precautions**

Store in accordance with local regulations. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage. Bund storage facilities to prevent soil and water pollution in the event of spillage. The storage area floor should be leak-tight, jointless and not absorbent. Storage class Toxic storage.

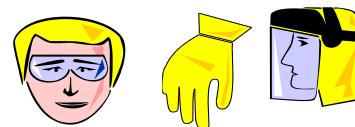
**Specific end use(s)**

The identified uses for this product are detailed in Section 1.2.

**8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**

**Control parameters / Exposure controls**

**Protective equipment**



**Appropriate engineering controls**

Provide adequate ventilation. Personal, workplace environment or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Use process enclosures, local exhaust ventilation or other engineering controls as the primary means to minimise worker exposure. Personal protective equipment should only be used if worker exposure cannot be controlled adequately by the engineering control measures. Ensure control measures are regularly inspected and maintained. Ensure operatives are trained to minimise exposure.

**Eye/face protection**

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with European Standard EN166. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses. Hand protection Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with European Standard EN374. Considering the data specified by the glove manufacturer, check during use that the gloves are

retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.

**Other skin and body protection**

Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.

**Hygiene measures**

Provide eyewash station and safety shower. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke. Preventive industrial medical examinations should be carried out. Warn cleaning personnel of any hazardous properties of the product.

**Respiratory protection**

Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with European Standard EN14387. Full face mask respirators with replaceable filter cartridges should comply with European Standard EN136. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140.

**Environmental exposure controls**

Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

<b>Appearance</b>	Liquid.
<b>Colour</b>	Colourless to pale yellow.
<b>Odour</b>	No characteristic odour.
<b>pH</b>	Not applicable.
<b>Melting point</b>	<-20°C / <-4°F
<b>Initial boiling point and range</b>	>220°C / >428°F @ 1.33 hPa
<b>Flash point</b>	137°C / 278.6°F Method: Pensky-Martens closed cup.
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	Not available.
<b>Vapour pressure</b>	Not available.
<b>Vapour density</b>	Not available.
<b>Bulk density</b>	1.00 kg/l
<b>Solubility(ies)</b>	Soluble in the following materials: Ketones. Esters. Aromatic solvents.
<b>Partition coefficient</b>	Not applicable.
<b>Auto-ignition temperature</b>	460°C / 860°F
<b>Decomposition Temperature</b>	Not available.
<b>Viscosity</b>	1200 mPa s @ 25°C / 77°F
<b>Explosive properties</b>	Not considered to be explosive.
<b>Oxidising properties</b>	Does not meet the criteria for classification as oxidising.

**10. STABILITY AND REACTIVITY**

**Reactivity**

There are no known reactivity hazards associated with this product.

**Chemical stability**

**Stability**

Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.

**Possibility of hazardous reactions**

No potentially hazardous reactions known.

**Conditions to avoid**

There are no known conditions that are likely to result in a hazardous situation.

**Incompatible materials**

Materials to avoid No specific material or group of materials is likely to react with the product to produce a hazardous situation.

**Hazardous decomposition products**

Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours.

**11. TOXICOLOGICAL INFORMATION**

**Information on toxicological effects**

**Acute toxicity – oral**

**Notes (oral LD<sub>50</sub>)**

Based on available data the classification criteria are not met.

**Acute toxicity – dermal Notes (dermal LD<sub>50</sub>)**

Based on available data the classification criteria are not met.

**Acute toxicity - inhalation Notes (inhalation LC<sub>50</sub>)**

Based on available data the classification criteria are not met.

**Skin corrosion/irritation Animal data**

Based on available data the classification criteria are not met.

**Serious eye damage/irritation**

Based on available data the classification criteria are not met.

**Respiratory sensitization**

Based on available data the classification criteria are not met.

**Skin sensitisation**

Based on available data the classification criteria are not met.

**Germ cell mutagenicity Genotoxicity - in vitro**

Based on available data the classification criteria are not met.

**Carcinogenicity**

Based on available data the classification criteria are not met.

**IARC carcinogenicity**

None of the ingredients are listed or exempt.

**Reproductive toxicity – fertility met.**

Based on available data the classification criteria are not met.

**Reproductive toxicity - development met.**

Based on available data the classification criteria are not met.

**Specific target organ toxicity - single exposure**

**STOT - single exposure**

Not classified as a specific target organ toxicant after a single exposure.

**Specific target organ toxicity - repeated exposure**

**STOT - repeated exposure**

Not classified as a specific target organ toxicant after repeated exposure.

**Aspiration hazard**

Based on available data the classification criteria are not met.

**General information**

The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

**Inhalation**

Prolonged inhalation of high concentrations may damage respiratory system.

**Ingestion**

May cause sensitisation or allergic reactions in sensitive individuals. May cause discomfort if swallowed. Stomach pain. Nausea, vomiting.

**Skin contact**

May cause skin sensitisation or allergic reactions in sensitive individuals. Prolonged contact may cause dryness of the skin.

**Eye contact**

May cause temporary eye irritation.

**Route of entry**

Ingestion Inhalation Skin and/or eye contact

**Target organs**

No specific target organs known.

**Medical considerations**

Skin disorders and allergies.

**Toxicological information on ingredients.**

**Hexamethylene diisocyanate, oligomers**

**Acute toxicity – inhalation**

ATE inhalation (gases ppm)	4,500.0
ATE inhalation (vapours mg/l)	11.0
<b>ATE inhalation (dusts/mists mg/l)</b>	<b>1.5</b>

**hexamethylene-di-isocyanate**

**Acute toxicity – inhalation**

<b>ATE inhalation (gases ppm)</b>	<b>700.0</b>
<b>ATE inhalation (vapours mg/l)</b>	<b>3.0</b>
<b>ATE inhalation (dusts/mists mg/l)</b>	<b>0.5</b>

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity** Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.

**Toxicity**

**Toxicity** Based on available data the classification criteria are not met.

**Persistence and degradability**

The degradability of the product is not known. 12.3. Bioaccumulative potential Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not applicable. 12.4. Mobility in soil Mobility No data available. 12.5. Results of PBT and vPvB assessment 12.6. Other adverse effects Other adverse effects None known.

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

**General information**

The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

**Disposal methods**

Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Incineration or landfill should only be considered when recycling is not feasible.

**14. TRANSPORT INFORMATION**

**General**

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID). 14.1.

**UN number**

Not applicable.

**UN proper shipping name**

Not applicable.

**Transport hazard class(es)**

No transport warning sign required.

**Packing group**

Not applicable.

**Environmentally hazardous substance/marine pollutant**

No.

**Special precautions for user**

Not applicable.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable.

### 15. REGULATORY INFORMATION

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

**National regulations**

Health and Safety at Work etc. Act 1974 (as amended). The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716). The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"]. EH40/2005 Workplace exposure limits.

**EU legislation**

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Commission Regulation (EU) No 453/2010 of 20 May 2010. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Dangerous Preparations Directive 1999/45/EC. Dangerous Substances Directive 67/548/EEC. 15.2.

**Chemical safety assessment**

No chemical safety assessment has been carried out.

### 16. FURTHER INFORMATION

**Classification procedures according to Regulation (EC) 1272/2008**

Acute Tox. 4 - H302: Skin Sens. 1 - H317: : Calculation method. Aquatic Chronic 3 - H412: : Calculation method.

**Training advice**

Read and follow manufacturer's recommendations. Only trained personnel should use this material. Please contact SHIMICOAT for further details.

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**Product Name:** UVthane PLUS  
**Issued:** 03 Aug 2024  
**Revision:** 3

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Emergency action code of numbers and letters that provide information to emergency services especially fire fighters

IARC:	International Agency for Research on Cancer	PMCC:	Pensky Martens Closed Cup
IOELV:	Indicative Occupational Exposure Limit Value	PNEC:	Predicted No Effect Concentration
LC50:	Lethal Concentration, 50 percent	R-Phrase:	Risk Phrase
LD50:	Lethal Dose, 50 percent	STEL:	Short Term Exposure Limit
NICNAS:	National Industrial Notification & Assessment Scheme	STOT-SE:	Specific Target Organ Toxicity (Single Exposure)
NIOSH:	National Institute for Occupational Safety & Health	STOT-RE:	Specific Target Organ Toxicity (Repeated Exposure)
NOAEL:	No Observed Adverse Effect Level	SUSMP:	Standard for the Uniform Scheduling of Medicines & Poisons
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NOS:	Not otherwise specified	UN Number:	United Nations Number
NTP:	National Toxicology Program (USA)	vPvB:	Very Persistent and Very Bioaccumulative
OEL:	Occupational Exposure Limit	WEEL:	Workplace Environmental Exposure Level
OSHA:	Occupational Safety & Health Administration	WEL-TWA:	Workplace Exposure Limit, Time Weighted Average
PBT:	Persistent Bioaccumulative Toxic chemical		

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