

# Safety data sheet

Printing date 12.12.2011 Version No. 1 Revision: 12.12.2011

according to 1907/2006/EC, Article 31

Hazardous according to criteria of Australian Safety and Compensation Council

## 1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
- **Trade name:** UZIN PE 460 Comp. B
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use** For professional use only.
- **Application of the substance / the preparation** Epoxy DPM (Component B)
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Ufloor-Systems New Zealand Ltd  
PO Box 426  
Whangaparaoa 0943  
New Zealand  
phone: +64 (0) 9 424 0366  
fax: +64 (0) 9 428 1643  
mobile: + 64 (0) 21 933780  
email: ufloor-systems@xtra.co.nz
- **Further information obtainable from:** Sales Department
- **Emergency telephone number:** Call: +61 405 737 225

## 2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
  - Corrosive**  
Causes burns.
  - Harmful**  
Harmful if swallowed.
  - Sensitising**  
May cause sensitisation by skin contact.  
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **Information concerning particular hazards for human and environment:**  
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **Label elements**
- **Labelling according to EU guidelines:**  
The product has been classified and marked in accordance with EU Directives.
- **Code letter and hazard designation of product:**  
Corrosive
- **Hazard-determining components of labelling:**  
3-aminomethyl-3,5,5-trimethylcyclohexylamine  
m-phenylenebis(methylamine)
- **Risk phrases:**  
Harmful if swallowed.  
Causes burns.  
May cause sensitisation by skin contact.  
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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**· Safety phrases:**

*Avoid contact with skin and eyes.*

*In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.*

*After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap.*

*Wear suitable gloves and eyeface protection.*

*In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).*

**· Information concerning particular hazards for human and environment:**

**· Safety phrases:**

*Avoid contact with skin and eyes.*

*In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.*

*After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap.*

*Wear suitable gloves and eyeface protection.*

*In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).*

**· Other hazards**

**· Results of PBT and vPvB assessment**

**· PBT:** Not applicable.

**· vPvB:** Not applicable.

**3 Composition/information on ingredients**

**· Chemical characterization: Mixtures**

**· Description:** Epoxy DPM (Component B)

**· Dangerous components:**

2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	10 - <25%
1477-55-0	m-phenylenebis(methylamine)	10 - <25%

**· Additional information:** For the wording of the listed risk phrases refer to section 16.

**4 First aid measures**

**· Description of first aid measures**

**· General information:** Immediately remove any clothing soiled by the product.

**· After inhalation:** Supply fresh air; consult doctor in case of complaints.

**· After skin contact:** Immediately wash with water and soap and rinse thoroughly.

**· After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

**· After swallowing:** Do not induce vomiting; call for medical help immediately.

**· Information for doctor:**

**· Most important symptoms and effects, both acute and delayed** Allergic reactions

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

No further relevant information available.

**5 Firefighting measures**

**· Extinguishing media**

**· Suitable extinguishing agents:**

CO<sub>2</sub> powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**· For safety reasons unsuitable extinguishing agents:** Water with full jet

**· Special hazards arising from the substance or mixture** No further relevant information available.

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- **Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

**6 Accidental release measures**

- **Personal precautions, protective equipment and emergency procedures**  
 Wear protective equipment. Keep unprotected persons away.  
 Ensure adequate ventilation
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
 Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
 Dispose contaminated material as waste according to item 13.  
 Ensure adequate ventilation.
- **Reference to other sections**  
 See Section 7 for information on safe handling.  
 See Section 8 for information on personal protection equipment.  
 See Section 13 for disposal information.

**7 Handling and storage**

- **Handling:**
- **Precautions for safe handling**  
 Wear suitable protective clothing, gloves and eye/face protection.  
 Immediately remove all soiled and contaminated clothing  
 Keep away from foodstuffs, beverages and feed.  
 Avoid contact with the eyes and skin.  
 Wash hands before breaks and at the end of work.
- **Information about fire - and explosion protection:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Specific end use(s)** No further relevant information available.

**8 Exposure controls/personal protection**

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

**1477-55-0 m-phenylenebis(methylamine)**

NES (Australia)	0.1* mg/m <sup>3</sup>
	Sk; *Peak limitation

- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
 Immediately remove all soiled and contaminated clothing  
 Wear suitable protective clothing, gloves and eye/face protection.  
 Keep away from foodstuffs, beverages and feed.  
 Avoid contact with the eyes and skin.  
 Wash hands before breaks and at the end of work.
- **Respiratory protection:** Not necessary if room is well-ventilated.

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**Protection of hands:**



Use gloves of stable material (e.g. Nitrile) - if necessary tricoted to improve the wearability.

**Material of gloves**

Butyl rubber, BR

Nitrile rubber, NBR

Recommended thickness of the material:  $\geq 0.5$  mm

**Penetration time of glove material**

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:**



Tightly sealed goggles

**9 Physical and chemical properties**

**Information on basic physical and chemical properties**

**General Information**

**Appearance:**

<b>Form:</b>	Fluid
<b>Colour:</b>	Yellowish
<b>Odour:</b>	Fish-like
<b>Odour threshold:</b>	Not determined.

**pH-value at 20°C:** 11

**Change in condition**

<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	Undetermined.

**Flash point:**  $> 100^{\circ}\text{C}$

**Flammability (solid, gaseous):** Not applicable.

**Ignition temperature:**  $435^{\circ}\text{C}$

**Decomposition temperature:** Not determined.

**Self-igniting:** Product is not selfigniting.

**Danger of explosion:** Product does not present an explosion hazard.

**Explosion limits:**

<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.

**Vapour pressure:** Not determined.

**Density at 20°C:**  $1 \text{ g/cm}^3$

**Relative density** Not determined.

**Vapour density** Not determined.

**Evaporation rate** Not determined.

**Solubility in / Miscibility with water:**

Not miscible or difficult to mix.

**Segregation coefficient (n-octanol/water):** Not determined.

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- **Viscosity:**
  - Dynamic at 20°C:* 400 mPas
  - Kinematic:* Not determined.
- **Other information** No further relevant information available.

**10 Stability and reactivity**

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** Strong exothermic reaction with acids.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:**
  - Corrosive gases/vapours
  - At elevated temperatures hazardous decomposition products such as carbon dioxide, carbon monoxide, smoke or nitric oxids may be evolved.

**11 Toxicological information**

- **Information on toxicological effects**
- **Acute toxicity:**

· **LD/LC50 values relevant for classification:**

**1477-55-0 m-phenylenebis(methylamine)**

Oral	LD50	1040 mg/kg (rat)
Inhalative	LC50/4 h	2.4 mg/l (rat)

- **Primary irritant effect:**
  - on the skin:* Caustic effect on skin and mucous membranes.
  - on the eye:* Strong caustic effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**
  - The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
  - Harmful
  - Irritant
  - Corrosive

**12 Ecological information**

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:**
  - Harmful to aquatic organisms
  - Do not allow product to reach ground water, water course or sewage system.

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- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

**13 Disposal considerations**

- **Waste treatment methods**
- **Recommendation**  
 The product contains materials that are harmful to the environment.  
 Do not allow product to reach ground water, water course or sewage system.  
 Disposal should be in accordance with local, state or national legislation.  
 Disposal should be in accordance with local, state or national legislation.
- **Uncleaned packaging:**
- **Recommendation:**  
 Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

**14 Transport information**

- **UN-Number**
- **ADR, IMDG, IATA** UN2289
- **UN proper shipping name**
- **ADR** 2289 ISOPHORONEDIAMINE, mixture
- **IMDG, IATA** ISOPHORONEDIAMINE, mixture

· **Transport hazard class(es)**

· **ADR**



- **Class** 8 Corrosive substances.
- **Label** 8

· **IMDG, IATA**



- **Class** 8 Corrosive substances.
- **Label** 8

· **Packing group**

- **ADR, IMDG, IATA** III

· **Environmental hazards:**

- **Marine pollutant:** No

· **Special precautions for user**

- **Danger code (Kemler):** 80
- **EMS Number:** F-A,S-B

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

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**· Transport/Additional information:**

**· ADR**

**· Tunnel restriction code**

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**15 Regulatory information**

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

**· Australian Inventory of Chemical Substances**

All ingredients are listed.

**· Standard for the Uniform Scheduling of Drugs and Poisons**

None of the ingredients is listed.

**· Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives.

**· Code letter and hazard designation of product:**

Corrosive

**· Hazard-determining components of labelling:**

3-aminomethyl-3,5,5-trimethylcyclohexylamine  
 m-phenylenebis(methylamine)

**· Risk phrases:**

Harmful if swallowed.

Causes burns.

May cause sensitisation by skin contact.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**· Safety phrases:**

Avoid contact with skin and eyes.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap.

Wear suitable gloves and eye/face protection.

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**· Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**· Recommended restriction of use** For professional use only.

**· Contact:** Walter Kuch

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