

# Safety Data Sheet

## according to WHS Regulations

Printing date 14.06.2023

Version No. 5

Revision: 14.06.2023

Hazardous according to criteria of Australian Safety and Compensation Council.

### 1 Identification

- **Product identifier**
- **Trade name:** UZIN PE 460 Comp. A
- **Relevant identified uses of the substance or mixture and uses advised against** No special requirements.
- **Sector of Use** For professional use only.
- **Application of the substance / the mixture** 2 Component Epoxy DPM (Component A)
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
 UZIN UTZ South Pacific Ltd.  
 Representative Office Australia  
 PO BOX 474, Helensvale  
 Queensland 4272  
 Australia  
 Mobile: +61 419 169925  
 E-Mail: info-au@uzin-sp.com
- **Further information obtainable from:** Sales Department
- **Emergency telephone number:**  
 NSW Poisons Information Centre:  
 Call 13 11 26 from anywhere in Australia (24/7)

### 2 Hazard(s) Identification

- **Classification of the substance or mixture**



environment

Aquatic Chronic 2

H411 Toxic to aquatic life with long lasting effects.



Skin Irrit. 2

H315 Causes skin irritation.

Serious eye damage/irritation – Category 2A H319 Causes serious eye irritation.

Skin Sens. 1

H317 May cause an allergic skin reaction.

Aquatic Acute 2

H401 Toxic to aquatic life.

- **Label elements**

- **GHS label elements**

The product is classified and labelled according to the Globally Harmonised System (GHS).

- **Hazard pictograms**



GHS07 GHS09

- **Signal word** Warning

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

Bisphenol-A-epoxy resin (average molecular weight  $\leq 700$ )Bisphenol-F-epoxy resin (average molecular weight  $\leq 700$ )

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**Trade name: UZIN PE 460 Comp. A**

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alkyl C12-C14 glycidyl ether

1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane

**· Hazard statements**

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

Toxic to aquatic life with long lasting effects.

**· Precautionary statements**

Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection.

IF ON SKIN: Wash with plenty of soap and water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If skin irritation or rash occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

**· Other hazards****· Results of PBT and vPvB assessment****· PBT:** Not applicable.**· vPvB:** Not applicable.

### 3 Composition and Information on Ingredients

**· Chemical characterisation: Mixtures****· Description:** 2 Component Epoxy DPM (Component A)**· Dangerous components:**

CAS: 1675-54-3	Bisphenol-A-epoxy resin (average molecular weight $\leq 700$ ) ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; Serious eye damage/irritation – Category 2A, H319; Skin Sens. 1, H317; Aquatic Acute 2, H401	25-50%
CAS: 9003-36-5	Bisphenol-F-epoxy resin (average molecular weight $\leq 700$ ) ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; Serious eye damage/irritation – Category 2A, H319; Skin Sens. 1, H317; Aquatic Acute 2, H401	25-50%
CAS: 68609-97-2	alkyl C12-C14 glycidyl ether ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	10-<20%
CAS: 17557-23-2	1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317; Flam. Liq. 4, H227	3-<5%

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

### 4 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**

Also observe the safety data sheet of component B.

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### 5 Fire Fighting Measures

- **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.
- **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.
- **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  
Avoid contact with the eyes and skin.  
Keep away from foodstuffs, beverages and feed.  
Prevent formation of aerosols.  
Wash hands before breaks and at the end of work.
- **Information about fire - and explosion protection:** No special measures required.
- **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.  
Protect from humidity and water.  
Protect from frost.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls and personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Ingredients with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Immediately remove all soiled and contaminated clothing  
Avoid contact with the eyes and skin.  
Wear suitable protective clothing, gloves and eye/face protection.  
Keep away from foodstuffs, beverages and feed.  
Wash hands before breaks and at the end of work.

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- **Respiratory protection:** Not necessary. Ensure that room is well-ventilated during processing.
- **Protection of hands:**



Use gloves of stable material (e.g. Nitrile) - if necessary tricoted to improve the wearability (EN 374)

- **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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.

At least 480 minutes.

- **Eye protection:**



Tightly sealed goggles or face protection (EN 166)

## 9 Physical and Chemical Properties

- **General Information**

- **Appearance:**

- **Form:**

Fluid

- **Colour:**

Yellowish

- **Odour:**

Weak, characteristic

- **Odour threshold:**

Not determined.

- **pH-value:**

Not determined.

- **Change in condition**

- **Melting point/freezing point:**

Undetermined.

- **Initial boiling point and boiling range:**

Undetermined.

- **Flash point:**

$>100$  °C

- **Flammability (solid, gas):**

Not applicable.

- **Decomposition temperature:**

Not determined.

- **Ignition temperature:**

Product is not selfigniting.

- **Explosive properties:**

Product does not present an explosion hazard.

- **Explosion limits:**

- **Lower:**

Not determined.

- **Upper:**

Not determined.

- **Vapour pressure:**

Not determined.

- **Density at 20 °C:**

1.1 g/cm<sup>3</sup>

- **Relative density**

Not determined.

- **Vapour density**

Not determined.

- **Evaporation rate**

Not determined.

- **Solubility in / Miscibility with**

- **water:**

Not miscible or difficult to mix.

- **Partition coefficient: n-octanol/water:**

Not determined.

- **Viscosity:**

- **Dynamic at 20 °C:**

400 mPas

- **Kinematic:**

Not determined.

- **Other information**

No further relevant information available.

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### 10 Stability and Reactivity

- **Reactivity** No further relevant information available.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions**  
May produce violent reactions with bases and numerous organic substances including alcohols and amines.  
Exothermic polymerisation.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:**  
Irritant 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** Based on available data, the classification criteria are not met.
- **Skin corrosion/irritation** Causes skin irritation.
- **Serious eye damage/irritation** Causes serious eye irritation.
- **Respiratory or skin sensitisation** May cause an allergic skin reaction.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

### 12 Ecological Information

#### · Toxicity

#### · Aquatic toxicity:

**CAS: 1675-54-3 Bisphenol-A-epoxy resin (average molecular weight  $\leq 700$ )**

EC50/48h	1.8 mg/l (Daphnia magna)
EC50/72h	11 mg/l (Scenedesmus capricornutum)
LC50/96h	2 mg/l (Piscis)

- **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:** Toxic for fish
- **Additional ecological information:**
- **General notes:**  
Do not allow product to reach ground water, water course or sewage system.  
Toxic for aquatic organisms  
Also poisonous for fish and plankton in water bodies.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

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### 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.

- **Uncleaned packaging:**

- **Recommendation:**

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

### 14 Transport information

- **UN-Number**

- **ADG, IMDG, IATA**

UN3082

- **UN proper shipping name**

- **ADG**

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resins)

- **IMDG**

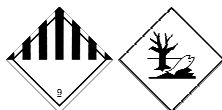
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resins), MARINE POLLUTANT

- **IATA**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resins)

- **Transport hazard class(es)**

- **ADG, IMDG, IATA**



- **Class**

9 Miscellaneous dangerous substances and articles.

- **Label**

9

- **Packing group**

- **ADG, IMDG, IATA**

III

- **Environmental hazards:**

- **Marine pollutant:**

Yes

Symbol (fish and tree)

- **Special marking (ADG):**

Symbol (fish and tree)

- **Special marking (IATA):**

Symbol (fish and tree)

- **Special precautions for user**

Warning: Miscellaneous dangerous substances and articles.

- **Hazard identification number (Kemler code):**

90

- **EMS Number:**

F-A,S-F

- **Stowage Category**

A

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

Not applicable.

- **Transport/Additional information:**

Not dangerous according to the above specifications.

- **ADG**

- **Limited quantities (LQ)**

5L

- **Transport category**

3

- **Tunnel restriction code**

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· UN "Model Regulation":

UN 3082 ENVIRONMENTALLY HAZARDOUS  
SUBSTANCE, LIQUID, N.O.S. (EPOXY RESINS), 9, III

### 15 Regulatory information

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

· Australian Inventory of Industrial Chemicals

All ingredients are listed.

· Standard for the Uniform Scheduling of Medicines and Poisons

None of the ingredients is listed.

· Australia: Priority Existing Chemicals

None of the ingredients is listed.

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

· Seveso category E2 Hazardous to the Aquatic Environment

· Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t

· Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t

· 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.

· Relevant phrases

H227 Combustible liquid.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H401 Toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

· Recommended restriction of use For professional use only.

· Contact:

Mobile: +61 419169925

E-Mail: info-au@uzin-sp.com

· Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 4: Flammable liquids – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Serious eye damage/irritation – Category 2A: Serious eye damage/eye irritation – Category 2A

Skin Sens. 1: Skin sensitisation – Category 1

Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard – Category 2

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

· \* Data compared to the previous version altered.



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Hazardous according to criteria of Australian Safety and Compensation Council.

### 1 Identification

- **Product identifier**
- **Trade name:** UZIN PE 460 Comp. B
- **Relevant identified uses of the substance or mixture and uses advised against** No special requirements.
- **Sector of Use** For professional use only.
- **Application of the substance / the mixture** 2 Component Epoxy DPM (Component B)
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
 UZIN UTZ South Pacific Ltd.  
 Representative Office Australia  
 PO BOX 474, Helensvale  
 Queensland 4272  
 Australia  
 Mobile: +61 419 169925  
 E-Mail: info-au@uzin-sp.com
- **Further information obtainable from:** Sales Department
- **Emergency telephone number:**  
 NSW Poisons Information Centre:  
 Call 13 11 26 from anywhere in Australia (24/7)

### 2 Hazard(s) Identification

- **Classification of the substance or mixture**



corrosion

Skin Corr. 1B      H314 Causes severe skin burns and eye damage.

Eye Dam. 1      H318 Causes serious eye damage.



environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



Skin Sens. 1      H317 May cause an allergic skin reaction.

- **Label elements**

- **GHS label elements**

The product is classified and labelled according to the Globally Harmonised System (GHS).

- **Hazard pictograms**



GHS05



GHS07



GHS09

- **Signal word** Danger

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**Trade name: UZIN PE 460 Comp. B**

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

3-aminomethyl-3,5,5-trimethylcyclohexylamine

m-phenylenebis(methylamine)

Phenol, styrenated

Polyoxypropylenediamine

2,4,6-tris(dimethylaminomethyl)phenol

**· Hazard statements**

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

Toxic to aquatic life with long lasting effects.

**· Precautionary statements**

Avoid release to the environment.

Wear protective gloves / eye protection / face protection.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If skin irritation or rash occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

**· Other hazards****· Results of PBT and vPvB assessment****· PBT:** Not applicable.**· vPvB:** Not applicable.

### 3 Composition and Information on Ingredients

**· Chemical characterisation: Mixtures****· Description:** 2 Component Epoxy DPM (Component B)**· Dangerous components:**

CAS: 61788-44-1	Phenol, styrenated ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Acute 2, H401	25-50%
CAS: 2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine ⚠ Skin Corr. 1B, H314; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412	10-<20%
CAS: 1477-55-0	m-phenylenebis(methylamine) ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1, H317; Aquatic Acute 3, H402; Aquatic Chronic 3, H412	10-<20%
CAS: 9046-10-0	Polyoxypropylenediamine ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Acute 3, H402; Aquatic Chronic 3, H412	10-<20%
CAS: 112-53-8	Lauryl alcohol ⚠ Serious eye damage/irritation – Category 2A, H319	5-<10%
CAS: 90-72-2	2,4,6-tris(dimethylaminomethyl)phenol ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318; ⚠ Skin Sens. 1B, H317	3-<5%

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

### 4 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.

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- **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 Fire Fighting Measures

- **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.
- **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.
- **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  
Avoid contact with the eyes and skin.  
Keep away from foodstuffs, beverages and feed.  
Wash hands before breaks and at the end of work.
- **Information about fire - and explosion protection:** No special measures required.
- **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.  
Protect from frost.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls and personal protection

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

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**· Ingredients with limit values that require monitoring at the workplace:****CAS: 1477-55-0 m-phenylenebis(methylamine)**

WES	Peak limitation: 0.1 mg/m <sup>3</sup>
Sk	

**· Personal protective equipment:****· General protective and hygienic measures:**

Immediately remove all soiled and contaminated clothing

Avoid contact with the eyes and skin.

Wear suitable protective clothing, gloves and eye/face protection.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

**· Respiratory protection:** Not necessary. Ensure that room is well-ventilated during processing.**· Protection of hands:**

Use gloves of stable material (e.g. Nitrile) - if necessary tricoted to improve the wearability (EN 374)

**· 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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.

At least 480 minutes.

**· Eye protection:**

Tightly sealed goggles or face protection (EN 166)

## 9 Physical and Chemical Properties

**· General Information****· Appearance:****· Form:**

Fluid

**· Colour:**

Yellowish

**· Odour:**

Amine-like

**· Odour threshold:**

Not determined.

**· pH-value at 20 °C:**

11

**· Change in condition****· Melting point/freezing point:**

Undetermined.

**· Initial boiling point and boiling range:**

Undetermined.

**· Flash point:**

&gt;100 °C

**· Flammability (solid, gas):**

Not applicable.

**· Decomposition temperature:**

Not determined.

**· Ignition temperature:**

Product is not selfigniting.

**· Explosive properties:**

Product does not present an explosion hazard.

**· Explosion limits:****· Lower:**

Not determined.

**· Upper:**

Not determined.

**· Vapour pressure:**

Not determined.

**· Density at 20 °C:**1.1 g/cm<sup>3</sup>**· Relative density**

Not determined.

**· Vapour density**

Not determined.

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· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient: n-octanol/water:</b>	Not determined.
· <b>Viscosity:</b>	
· <b>Dynamic at 20 °C:</b>	650 mPas
· <b>Kinematic:</b>	Not determined.
· <b>Other information</b>	No further relevant information available.

### 10 Stability and Reactivity

- **Reactivity** No further relevant information available.
- **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** Based on available data, the classification criteria are not met.

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

CAS: 2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Oral	LD50	1,030 mg/kg (ATE) 1,030 mg/kg (rat) (OECD 401)
Dermal	LD50	1,840 mg/kg (rabbit)
Inhalative	LC50/4 h	>5 mg/l (rat)

CAS: 1477-55-0 m-phenylenebis(methylamine)

Oral	LD50	930 mg/kg (rat)
Dermal	LD50	3,100 mg/kg (rabbit)
Inhalative	LC50/4 h	1.34 mg/l (rat)

CAS: 112-53-8 Lauryl alcohol

Oral	LD50	12,800 mg/kg (rat)
------	------	--------------------

- **Skin corrosion/irritation** Causes severe skin burns and eye damage.
- **Serious eye damage/irritation** Causes serious eye damage.
- **Respiratory or skin sensitisation** May cause an allergic skin reaction.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

AU

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### 12 Ecological Information

· **Toxicity**

· **Aquatic toxicity:**

**CAS: 112-53-8 Lauryl alcohol**

LC50/96h >100 mg/l (*Leuciscus idus*)

· **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:** Toxic for fish

· **Additional ecological information:**

· **General notes:**

Do not allow product to reach ground water, water course or sewage system.

Toxic for aquatic organisms

Also poisonous for fish and plankton in water bodies.

· **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.

· **Uncleaned packaging:**

· **Recommendation:**

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

### 14 Transport information

· **UN-Number**

· **ADG, IMDG, IATA**

UN2735

· **UN proper shipping name**

· **ADG**

2735 POLYAMINES, LIQUID, CORROSIVE, N.O.S.  
(Polyoxypropylenediamine, m-phenylenebis(methylamine)), ENVIRONMENTALLY  
HAZARDOUS

· **IMDG**

POLYAMINES, LIQUID, CORROSIVE, N.O.S.  
(Polyoxypropylenediamine, m-phenylenebis(methylamine)), MARINE POLLUTANT

· **IATA**

POLYAMINES, LIQUID, CORROSIVE, N.O.S.  
(Polyoxypropylenediamine, m-phenylenebis(methylamine))

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· Transport hazard class(es)

· ADG, IMDG



· Class

8 Corrosive substances.

· Label

8

· IATA



· Class

8 Corrosive substances.

· Label

8

· Packing group

· ADG, IMDG, IATA

II

· Environmental hazards:

Product contains environmentally hazardous substances: Phenol, styrenated

· Marine pollutant:

Yes

· Special marking (ADG):

Symbol (fish and tree)  
Symbol (fish and tree)

· Special precautions for user

Warning: Corrosive substances.

· Hazard identification number (Kemler code):

80

· EMS Number:

F-A,S-B

· Segregation groups

(SGG18) Alkalis

· Stowage Category

A

· Segregation Code

SG35 Stow "separated from" SGG1-acids

· Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

· Transport/Additional information:

· ADG

· Limited quantities (LQ)

1L

· Transport category

2

· Tunnel restriction code

E

· UN "Model Regulation":

UN 2735 POLYAMINES, LIQUID, CORROSIVE, N.O.S. (POLYOXYPROPYLENEDIAMINE, M-PHENYLENEBIS(METHYLAMINE)), 8, II, ENVIRONMENTALLY HAZARDOUS

### 15 Regulatory information

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

· Australian Inventory of Industrial Chemicals

All ingredients are listed.

· Standard for the Uniform Scheduling of Medicines and Poisons

None of the ingredients is listed.

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**Trade name: UZIN PE 460 Comp. B**

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**· Australia: Priority Existing Chemicals**

None of the ingredients is listed.

- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category E2** Hazardous to the Aquatic Environment
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **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.

**· Relevant phrases**

- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H401 Toxic to aquatic life.
- H402 Harmful to aquatic life.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.

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

**· Contact:**

Mobile: +61 419169925  
E-Mail: info-au@uzin-sp.com

**· Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
ICAO: International Civil Aviation Organisation  
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Acute Tox. 4: Acute toxicity – Category 4  
Skin Corr. 1B: Skin corrosion/irritation – Category 1B  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
Serious eye damage/irritation – Category 2A: Serious eye damage/eye irritation – Category 2A  
Skin Sens. 1: Skin sensitisation – Category 1  
Skin Sens. 1B: Skin sensitisation – Category 1B  
Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard – Category 2  
Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard – Category 3  
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2  
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

- **\* Data compared to the previous version altered.**