

Safety Data Sheet

according to WHS Regulations

Date of issue: 14.05.2025

Version No. 6

Revision: 14.05.2025

Hazardous according to criteria of Australian Safety and Compensation Council.

1 Identification

- **Other means of identification**
- **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
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
 Manufacturer:
 UZIN UTZ SE
 Dieselstraße 3
 D-89079 Ulm
 Phone +49 731 4097-0

 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)
 Transportation emergencies: +49 621 60 43 333

2 Hazard(s) Identification

- **Classification of the substance or mixture**



GHS09 environment

Aquatic Chronic 2

H411 Toxic to aquatic life with long lasting effects.



GHS07

Skin corrosion/irritation – Category 2 H315 Causes skin irritation.

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

Skin sensitisation – Category 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).

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· Hazard pictograms



GHS07 GHS09

· Signal word Warning

· Hazard-determining components of labelling:

Bisphenol-A-epoxy resin (average molecular weight ≤ 700) (50-75 %)

1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane (25-50 %)

Bisphenol-F-epoxy resin (average molecular weight ≤ 700) (10-<25 %)

· 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.

· Additional information: Restricted to professional users.

· Other hazards

· Results of PBT and vPvB assessment

· PBT:

This substance/mixture does not contain any components that can be considered persistent, bioaccumulative and toxic (PBT).

· vPvB:

This substance/mixture does not contain any components that can be considered very persistent and very bioaccumulative (vPvB) at levels of 0.1%.

· Determination of endocrine-disrupting properties

This product does not contain any known or suspected endocrine disruptors.

3 Composition and Information on Ingredients

· Chemical characterisation: Mixtures

· Description: 2 Component Epoxy DPM

· Dangerous components:

CAS: 1675-54-3	Bisphenol-A-epoxy resin (average molecular weight ≤ 700) ⚠ Aquatic Chronic 2, H411; ⚠ Skin corrosion/irritation – Category 2, H315; Eye damage/irritation – Category 2A, H319; Skin sensitisation – Category 1, H317; Aquatic Acute 2, H401	50-75%
CAS: 17557-23-2	1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane ⚠ Skin corrosion/irritation – Category 2, H315; Skin sensitisation – Category 1, H317; Flammable liquids – Category 4, H227	25-50%
CAS: 9003-36-5	Bisphenol-F-epoxy resin (average molecular weight ≤ 700) ⚠ Aquatic Chronic 2, H411; ⚠ Skin corrosion/irritation – Category 2, H315; Eye damage/irritation – Category 2A, H319; Skin sensitisation – Category 1, H317; Aquatic Acute 2, H401	10-<25%

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· **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:**
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 If eye irritation persists: Get medical advice/attention.
- **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.

5 Fire Fighting Measures

- **Suitable extinguishing agents:**
 CO₂ 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.
- **Additional information**
 Cool endangered receptacles with water spray.
 Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
 Collect contaminated fire fighting water separately. It must not enter the sewage system.

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.
 Inform respective authorities in case of seepage into water course or sewage system.
 Keep contaminated washing water and dispose of appropriately.
 In case of seepage into the ground inform responsible authorities.
- **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 section 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.

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*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.**Carefully close opened containers and store upright to prevent any leakage.***· Specific end use(s)** No further relevant information available.

8 Exposure controls and personal protection

· Appropriate engineering controls No further data; see section 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.***· DNELs****CAS: 1675-54-3 Bisphenol-A-epoxy resin (average molecular weight ≤ 700)**

Dermal DNEL - longtime effect 3.6 mg/kg (human/consumer)

Inhalative DNEL - longtime effect 0.75 mg/m³ (human/consumer)**CAS: 17557-23-2 1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane**

Dermal DNEL - longtime effect 6.66 mg/kg (worker)

Inhalative DNEL - longtime effect 3.29 mg/m³ (worker)**CAS: 9003-36-5 Bisphenol-F-epoxy resin (average molecular weight ≤ 700)**

Oral DNEL - longtime effect 6.25 mg/kg (human/consumer)

Dermal DNEL - longtime effect 62.5 mg/kg (human/consumer)

Inhalative DNEL - longtime effect 8.7 mg/m³ (human/consumer)**· PNECs****CAS: 1675-54-3 Bisphenol-A-epoxy resin (average molecular weight ≤ 700)**

PNEC - seawater 0.6 µg/l (seawater)

PNEC - freshwater 6 µg/l (freshwater)

CAS: 17557-23-2 1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane

PNEC - seawater 4.7 µg/l (seawater)

PNEC - freshwater 47 µg/l (freshwater)

CAS: 9003-36-5 Bisphenol-F-epoxy resin (average molecular weight ≤ 700)

PNEC - seawater 0.3 µg/l (seawater)

PNEC - freshwater 3 µg/l (freshwater)

· 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.

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· Protection of hands:



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

Gloves must be disposed of immediately in case of heavy soiling, in case of splashes after the specified maximum wearing time, but at the latest at the end of the shift.

· Material of gloves

Butyl rubber, BR

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 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:

Blue

· 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:

>200 °C

· Flash point:

>100 °C

· Flammability

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/cm³

· 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:

430 mPas

· Kinematic:

Not determined.

· Other information

· Particle characteristics

Not applicable.

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· **Physical state**

Liquid

10 Stability and Reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability** Stable under normal conditions.
- **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 oxides 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: 1675-54-3 Bisphenol-A-epoxy resin (average molecular weight ≤ 700)

Oral	LD50	>2,000 mg/kg (Rat)
Dermal	LD50	>2,000 mg/kg (Rat)

CAS: 17557-23-2 1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane

Oral	LD50	>3,500 mg/kg (Rat)
Dermal	LD50	>2,000 mg/kg (Rat)

CAS: 9003-36-5 Bisphenol-F-epoxy resin (average molecular weight ≤ 700)

Oral	LD50	>5,000 mg/kg (Rat)
Dermal	LD50	>2,000 mg/kg (Rat)

- **Primary irritant effect:**
- **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.
- **Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

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12 Ecological Information

· **Toxicity**

· **Aquatic toxicity:**

CAS: 1675-54-3 Bisphenol-A-epoxy resin (average molecular weight ≤ 700)

EC50/48h 1.8 mg/l (*Daphnia magna*)

EC50/72h 11 mg/l (*Scenedesmus capricornutum*)

LC50/96h 2 mg/l (*Piscis*)

CAS: 17557-23-2 1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane

LC50/96h >100 mg/l (*Oncorhynchus mykiss*)

CAS: 9003-36-5 Bisphenol-F-epoxy resin (average molecular weight ≤ 700)

EC50/48h 2.55 mg/l (*Daphnia magna*)

· **Persistence and degradability**

Biodegradation CAS 1675-54-3 (OECD 302B)

Degradation rate 12% (28 days)

Not readily biodegradable.

· **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:**

This substance/mixture does not contain any components that can be considered persistent, bioaccumulative and toxic (PBT).

· **vPvB:**

This substance/mixture does not contain any components that can be considered very persistent and very bioaccumulative (vPvB) at levels of 0.1%.

· **Other adverse effects** No further relevant information available.

· **Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

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.

Mix both product components, allow to harden, then dispose of as construction waste.

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.

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14 Transport information

· UN-Number	UN3082
· ADG, IMDG, IATA	
· UN proper shipping name	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resins)
· ADG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resins), MARINE POLLUTANT
· IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resins)
· IATA	
· 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
· 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	(-)
· 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.

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- **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)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flammable liquids – Category 4: Flammable liquids – Category 4
Skin corrosion/irritation – Category 2: Skin corrosion/irritation – Category 2
Eye damage/irritation – Category 2A: Serious eye damage/eye irritation – Category 2A
Skin sensitisation – Category 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

- **Other means of identification**
- **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
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
 Manufacturer:
 UZIN UTZ SE
 Dieselstraße 3
 D-89079 Ulm
 Phone +49 731 4097-0

 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)
 Transportation emergencies: +49 621 60 43 333

2 Hazard(s) Identification

- **Classification of the substance or mixture**



GHS05 corrosion

Skin corrosion/irritation – Category 1B H314 Causes severe skin burns and eye damage.

Eye damage/irritation – Category 1 H318 Causes serious eye damage.



GHS09 environment

Aquatic Chronic 2

H411 Toxic to aquatic life with long lasting effects.



GHS07

Skin sensitisation – Category 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).

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· Hazard pictograms

GHS05 GHS07 GHS09

· Signal word *Danger***· Hazard-determining components of labelling:***m*-Xylylenediamine (10-<20 %)

Phenol, styrenated (25-50 %)

isophorone diamine (10-<20 %)

Polyoxypropylenediamine (10-<20 %)

· 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/protective clothing/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.
Immediately call a POISON CENTER/doctor.
If skin irritation or rash occurs: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
· Additional information: *Restricted to professional users.***· Other hazards****· Results of PBT and vPvB assessment****· PBT:***This substance/mixture does not contain any components that can be considered persistent, bioaccumulative and toxic (PBT).*
· vPvB:*This substance/mixture does not contain any components that can be considered very persistent and very bioaccumulative (vPvB) at levels of 0.1%.*
· Determination of endocrine-disrupting properties*This product does not contain any known or suspected endocrine disruptors.*

3 Composition and Information on Ingredients

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

CAS: 61788-44-1	Phenol, styrenated	25-50%
	Aquatic Chronic 2, H411; Skin corrosion/irritation – Category 2, H315; Skin sensitisation – Category 1A, H317; Aquatic Acute 2, H401	

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CAS: 1477-55-0	<i>m</i> -Xylylenediamine ⚠ Skin corrosion/irritation – Category 1B, H314; Eye damage/irritation – Category 1, H318; ⚠ Acute toxicity - oral – Category 4, H302; Acute toxicity - inhalation – Category 4, H332; Skin sensitisation – Category 1, H317; Aquatic Acute 3, H402; Aquatic Chronic 3, H412	10-<20%
CAS: 2855-13-2	isophorone diamine ⚠ Skin corrosion/irritation – Category 1B, H314; ⚠ Acute toxicity - oral – Category 4, H302; Acute toxicity - dermal – Category 4, H312; Skin sensitisation – Category 1, H317; Aquatic Chronic 3, H412	10-<20%
CAS: 9046-10-0	Polyoxypropylenediamine ⚠ Skin corrosion/irritation – Category 1B, H314; Eye damage/irritation – Category 1, H318; Aquatic Acute 3, H402; Aquatic Chronic 3, H412	10-<20%
CAS: 112-53-8	Lauryl alcohol ⚠ Eye damage/irritation – Category 2A, H319	5-<10%
CAS: 90-72-2	2,4,6-tris(dimethylaminomethyl)phenol ⚠ Skin corrosion/irritation – Category 1B, H314; Eye damage/irritation – Category 1, H318; ⚠ Acute toxicity - oral – Category 4, H302	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:**
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
- **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:**
CO₂ 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.
- **Additional information**
Cool endangered receptacles with water spray.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

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.

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Inform respective authorities in case of seepage into water course or sewage system.

Keep contaminated washing water and dispose of appropriately.

In case of seepage into the ground inform responsible authorities.

· **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 section 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.

Carefully close opened containers and store upright to prevent any leakage.

· **Specific end use(s)** No further relevant information available.

8 Exposure controls and personal protection

· **Appropriate engineering controls** No further data; see section 7.

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

CAS: 1477-55-0 m-Xylylenediamine

WES Peak limitation: 0.1 mg/m³

Sk

· **DNELs**

CAS: 61788-44-1 Phenol, styrenated

Dermal DNEL - longtime effect

2.87 mg/kg (worker)

Inhalative DNEL - longtime effect

1.21 mg/m³ (worker)

CAS: 2855-13-2 isophorone diamine

Oral DNEL - longtime - systemic effects

0.526 mg/kg (human/consumer)

Inhalative DNEL - longtime effect

0.073 mg/m³ (worker)

CAS: 9046-10-0 Polyoxypropylenediamine

Dermal DNEL - longtime effect

2.5 mg/kg (worker)

Inhalative DNEL - longtime effect

5.29 mg/m³ (worker)

CAS: 112-53-8 Lauryl alcohol

Oral DNEL - longtime effect

75 mg/kg (human/consumer)

Dermal DNEL - longtime effect

75 mg/kg (human/consumer)

Inhalative DNEL - longtime effect

65 mg/m³ (human/consumer)

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· **PNECs****CAS: 61788-44-1 Phenol, styrenated**

PNEC - seawater	1.15 µg/l (seawater)
PNEC - freshwater	11.5 µg/l (freshwater)
PNEC - soil	305 µg/kg (ground)

CAS: 2855-13-2 isophorone diamine

PNEC - seawater	6 µg/l (seawater)
PNEC - freshwater	60 µg/l (freshwater)
PNEC - soil	1,121 µg/kg (ground)

CAS: 9046-10-0 Polyoxypropylenediamine

PNEC - seawater	14.3 µg/l (seawater)
PNEC - freshwater	15 µg/l (freshwater)

CAS: 112-53-8 Lauryl alcohol

PNEC - seawater	0.28 µg/l (seawater)
PNEC - freshwater	2.8 µg/l (freshwater)

· **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)

Gloves must be disposed of immediately in case of heavy soiling, in case of splashes after the specified maximum wearing time, but at the latest at the end of the shift.

· **Material of gloves**

Butyl rubber, BR

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 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:**

Yellow

· **Odour:**

Amine-like

· **Odour threshold:**

Not determined.

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· pH-value:	Not determined.
· Change in condition	
· Melting point/freezing point:	Undetermined.
· Initial boiling point and boiling range:	>200 °C
· Flash point:	>100 °C
· Flammability	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 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.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
· Dynamic at 20 °C:	400 mPas
· Kinematic:	Not determined.
· Other information	
· Particle characteristics	Not applicable.
· Physical state	Liquid

10 Stability and Reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability** Stable under normal conditions.
- **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: 61788-44-1 Phenol, styrenated

Oral LD50 >2,000 mg/kg (Rat)

Dermal LD50 >2,000 mg/kg (Rat)

CAS: 1477-55-0 m-Xylylenediamine

Oral LD50 930 mg/kg (Rat)

Dermal LD50 3,100 mg/kg (rabbit)

Inhalative LC50/4 h 1.34 mg/l (Rat)

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CAS: 2855-13-2 isophorone diamine

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

CAS: 9046-10-0 Polyoxypropylenediamine

Oral	LD50	2,880 mg/kg (Rat)
Dermal	LD50	2,980 mg/kg (rabbit)

CAS: 112-53-8 Lauryl alcohol

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

CAS: 90-72-2 2,4,6-tris(dimethylaminomethyl)phenol

Oral	LD50	2,169 mg/kg (Rat)
------	------	-------------------

- **Primary irritant effect:**
- **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.
- **Information on other hazards**

· **Endocrine disrupting properties**

CAS: 61788-44-1 Phenol, styrenated

List II

12 Ecological Information

· **Toxicity**· **Aquatic toxicity:****CAS: 61788-44-1 Phenol, styrenated**

EC50/48h 14-51 mg/l (daphnia)

EC50/72h 15 mg/l (algae)

CAS: 1477-55-0 m-Xylylenediamine

LC50/96h 87.6 mg/l (Oryzias latipes)

CAS: 2855-13-2 isophorone diamine

EC50/48h 23 mg/l (Daphnia magna)

EC50/72h >50 mg/l (Scenedesmus subspicatus)

LC50/96h 110 mg/l (Leuciscus idus)

CAS: 9046-10-0 Polyoxypropylenediamine

EC50/48h 80 mg/l (Daphnia magna)

EC50/72h 15 mg/l (Pseudokirchneriella subcapitata)

LC50/96h >15 mg/l (Oncorhynchus mykiss)

CAS: 112-53-8 Lauryl alcohol

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

CAS: 90-72-2 2,4,6-tris(dimethylaminomethyl)phenol

EC50/72h 84 mg/l (Scenedesmus subspicatus)

LC50/96h 175 mg/l (carp)

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- **Persistence and degradability**
Biodegradation CAS 1477-55-0 (OECD 301B)
Degradation rate 49% (28 days)
Not readily biodegradable.
Biodegradation CAS 2855-13-2 (OECD criteria)
Degradation rate 8% (28 days)
Not readily biodegradable.
- **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:**
This substance/mixture does not contain any components that can be considered persistent, bioaccumulative and toxic (PBT).
- **vPvB:**
This substance/mixture does not contain any components that can be considered very persistent and very bioaccumulative (vPvB) at levels of 0.1%.
- **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.
Mix both product components, allow to harden, then dispose of as construction waste.
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

- | | |
|--|---|
| <ul style="list-style-type: none"> · UN-Number · ADG, IMDG, IATA | <p style="text-align: center;">UN2735</p> |
| <ul style="list-style-type: none"> · UN proper shipping name · ADG | <p>2735 POLYAMINES, LIQUID, CORROSIVE, N.O.S. (m-Xylylenediamine, ISOPHORONEDIAMINE), ENVIRONMENTALLY HAZARDOUS</p> |
| <ul style="list-style-type: none"> · IMDG, IATA | <p>POLYAMINES, LIQUID, CORROSIVE, N.O.S. (m-Xylylenediamine, ISOPHORONEDIAMINE)</p> |

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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 . (M - X Y L Y L E N E D I A M I N E ,
ISOPHORONEDIAMINE), 8, II, ENVIRONMENTALLY
HAZARDOUS

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**· **Australian Inventory of Industrial Chemicals**

CAS: 61788-44-1	Phenol, styrenated
CAS: 1477-55-0	m-Xylylenediamine
CAS: 2855-13-2	isophorone diamine
CAS: 112-53-8	Lauryl alcohol

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· 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

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)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute toxicity - oral - Category 4: Acute toxicity - Category 4

Skin corrosion/irritation - Category 1B: Skin corrosion/irritation - Category 1B

Skin corrosion/irritation - Category 2: Skin corrosion/irritation - Category 2

Eye damage/irritation - Category 1: Serious eye damage/eye irritation - Category 1

Eye damage/irritation - Category 2A: Serious eye damage/eye irritation - Category 2A

Skin sensitisation - Category 1: Skin sensitisation - Category 1

Skin sensitisation - Category 1A: Skin sensitisation - Category 1A

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

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Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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· **** Data compared to the previous version altered.***

AU