

Safety Data Sheet

According to the Globally Harmonised System (GHS)

Printing date 13.01.2026

Version No. 1

Revision: 13.01.2026

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

- **Product identifier**
- **Trade name:** UZIN PE 460 Comp. A
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use** For professional use only.
- **Application of the substance / the mixture** 2 Component Epoxy DPM
- **Uses advised against:** No further relevant information available.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
 Manufacturer:
 UZIN UTZ SE
 Dieselstrasse 3
 D-89079 Ulm, Germany
 Phone: +49 731 4097-0

 Supplier:
 Uzin Utz Middle East Trading LLC
 Al Hudaiba Mall, 2nd Floor
 Al Mina Street, Al Hudaiba
 PO Box 126732
 Dubai, United Arab Emirates

 Phone: +971 4 510 1323
 Fax: +971 4 454 2310
- **Further information obtainable from:**
 Product safety department
 msds.info@uzin-utz.com
- **Emergency telephone number:**
 Emergency telephone number:
 Monday to Friday between 07:00 and 17:00: Phone +971 4 510 1323
 Outside of working hours: Phone 998

2 Hazards identification

- **Classification of the substance or mixture**



GHS09 environment

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



GHS07

Skin Irrit. 2	H315 Causes skin irritation.
Eye Irrit. 2A	H319 Causes serious eye irritation.
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).

(Contd. on page 2)

Safety Data Sheet

According to the Globally Harmonised System (GHS)

Printing date 13.01.2026

Version No. 1

Revision: 13.01.2026

Trade name: UZIN PE 460 Comp. A

(Contd. of page 1)

Hazard pictograms

GHS07 GHS09

Signal word Warning**Hazard-determining components of labelling:**Bisphenol-A-epoxy resin (average molecularweight ≤ 700)

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

Bisphenol-F-epoxy resin (average molecular weight ≤ 700)**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**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%.

3 Composition/information on ingredients

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

CAS: 1675-54-3	Bisphenol-A-epoxy resin (average molecularweight ≤ 700) ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	50-75%
CAS: 17557-23-2	1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	25-50%
CAS: 9003-36-5	Bisphenol-F-epoxy resin (average molecular weight ≤ 700) ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; Acute Tox. 5, H313; Aquatic Acute 2, H401	10-<25%

Additional information: For the wording of the listed hazard 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.

(Contd. on page 3)

Safety Data Sheet

According to the Globally Harmonised System (GHS)

Printing date 13.01.2026

Version No. 1

Revision: 13.01.2026

Trade name: UZIN PE 460 Comp. A

(Contd. of page 2)

- **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 Firefighting measures

- **Extinguishing media**
- **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.
- **Advice for firefighters**
- **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.
 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.

(Contd. on page 4)

Safety Data Sheet

According to the Globally Harmonised System (GHS)

Printing date 13.01.2026

Version No. 1

Revision: 13.01.2026

Trade name: UZIN PE 460 Comp. A

(Contd. of page 3)

- **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.
 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/personal protection

- **Additional information about design of technical facilities:** No further data; see section 7.
- **Control parameters**
- **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 molecularweight ≤ 700)

Dermal	DNEL	8.33 mg/kg / bw/day (worker)
	DNEL - longtime effect	3.6 mg/kg (human/consumer)
Inhalative	DNEL	12.25 mg/m ³ (worker)
	DNEL - longtime effect	0.75 mg/m ³ (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/m ³ (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	104.15 mg/kg / bw/day (worker)
	DNEL - longtime effect	62.5 mg/kg (human/consumer)
Inhalative	DNEL	29.39 mg/m ³ (worker)
	DNEL - longtime effect	8.7 mg/m ³ (human/consumer)

· PNECs

CAS: 1675-54-3 Bisphenol-A-epoxy resin (average molecularweight ≤ 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)
PNEC - sediment	0.00039 mg/kg (seawater)
	0.0039 mg/kg (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)

- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
 Immediately remove all soiled and contaminated clothing

(Contd. on page 5)

Safety Data Sheet

According to the Globally Harmonised System (GHS)

Printing date 13.01.2026

Version No. 1

Revision: 13.01.2026

Trade name: UZIN PE 460 Comp. A

(Contd. of page 4)

*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.**Only use water and mild soap or a pH-neutral skin cleanser to cleanse the skin. Do not use solvents.*· **Material of gloves***PVC or PE gloves (EN 374)**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.**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 or face protection (EN 166)*

9 Physical and chemical properties

· **Information on basic 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*

(Contd. on page 6)

Safety Data Sheet

According to the Globally Harmonised System (GHS)

Printing date 13.01.2026

Version No. 1

Revision: 13.01.2026

Trade name: UZIN PE 460 Comp. A

(Contd. of page 5)

· 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	No further relevant information available.

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 oxids may be evolved.

11 Toxicological information

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

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

CAS: 1675-54-3 Bisphenol-A-epoxy resin (average molecularweight ≤ 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)
	Aquatic toxicity	7.6 mg/l (Piscis)

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** Irritant to skin and mucous membranes.
- **Serious eye damage/irritation** Irritating effect.
- **Respiratory or skin sensitisation**
Sensitisation possible through skin contact.
May cause an allergic skin reaction.

(Contd. on page 7)

AE

Safety Data Sheet

According to the Globally Harmonised System (GHS)

Printing date 13.01.2026

Version No. 1

Revision: 13.01.2026

Trade name: UZIN PE 460 Comp. A

(Contd. of page 6)

· **Information on other hazards**· **Endocrine disrupting properties**

None of the ingredients is listed.

12 Ecological information

· **Toxicity**· **Aquatic toxicity:****CAS: 1675-54-3 Bisphenol-A-epoxy resin (average molecularweight ≤ 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)

EC50/72h 1.8 mg/l (Scenedesmus capricornutum)

LC50/96h 2.54 mg/l (Leuciscus idus)

· **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.

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.

(Contd. on page 8)

Safety Data Sheet

According to the Globally Harmonised System (GHS)

Printing date 13.01.2026

Version No. 1

Revision: 13.01.2026

Trade name: UZIN PE 460 Comp. A

(Contd. of page 7)

- **Uncleaned packaging:**
- **Recommendation:**
Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

14 Transport information

· UN-Number	UN3082
· ADR, IMDG, IATA	
· UN proper shipping name	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resins)
· ADR	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)	
· ADR, IMDG, IATA	
	
· Class	9 Miscellaneous dangerous substances and articles.
· Label	9
· Packing group	III
· ADR, IMDG, IATA	
· Environmental hazards:	
· Marine pollutant:	Yes
· Special marking (ADR):	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.
· ADR	
· 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

-AE

(Contd. on page 9)

Safety Data Sheet

According to the Globally Harmonised System (GHS)

Printing date 13.01.2026

Version No. 1

Revision: 13.01.2026

Trade name: UZIN PE 460 Comp. A

(Contd. of page 8)

15 Regulatory information

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

- *Recommended restriction of use* Restricted to professional users.
- **Contact:**
Product Safety Department
msds.info@uzin-utz.com
- **Abbreviations and acronyms:**
ICAO: International Civil Aviation Organisation
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
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 Tox. 5: Acute toxicity – Category 5
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Eye Irrit. 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

AE

Safety Data Sheet

According to the Globally Harmonised System (GHS)

Printing date 13.01.2026

Version No. 1

Revision: 13.01.2026

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 mixture** 2 Component Epoxy DPM
- **Uses advised against:** No further relevant information available.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
 Manufacturer:
 UZIN UTZ SE
 Dieselstrasse 3
 D-89079 Ulm, Germany
 Phone: +49 731 4097-0

 Supplier:
 Uzin Utz Middle East Trading LLC
 Al Hudaiba Mall, 2nd Floor
 Al Mina Street, Al Hudaiba
 PO Box 126732
 Dubai, United Arab Emirates

 Phone: +971 4 510 1323
 Fax: +971 4 454 2310
- **Further information obtainable from:**
 Product safety department
 msds.info@uzin-utz.com
- **Emergency telephone number:**
 Emergency telephone number:
 Monday to Friday between 07:00 and 17:00: Phone +971 4 510 1323
 Outside of working hours: Phone 998

2 Hazards identification

- **Classification of the substance or mixture**



GHS05 corrosion

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

Eye Dam. 1 H318 Causes serious eye damage.



GHS09 environment

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



GHS07

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).

(Contd. on page 2)

Safety Data Sheet

According to the Globally Harmonised System (GHS)

Printing date 13.01.2026

Version No. 1

Revision: 13.01.2026

Trade name: UZIN PE 460 Comp. B

(Contd. of page 1)

· Hazard pictograms

GHS05 GHS07 GHS09

· Signal word *Danger***· Hazard-determining components of labelling:**

m-Xylylenediamine
 isophorone diamine
 Phenol, styrenated
 Polyoxypropylenediamine

· 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): 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.

· Other hazards**· 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%.

3 Composition/information on ingredients

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

CAS: 61788-44-1	Phenol, styrenated ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; Skin Sens. 1A, H317; Acute Tox. 5, H303; Acute Tox. 5, H313; Aquatic Acute 2, H401	25-50%
CAS: 1477-55-0	<i>m</i> -Xylylenediamine ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1, H317; Acute Tox. 5, H313; Aquatic Acute 3, H402; Aquatic Chronic 3, H412	10-<20%
CAS: 2855-13-2	isophorone diamine ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Skin Sens. 1A, H317; Acute Tox. 5, H333	10-<20%
CAS: 9046-10-0	Polyoxypropylenediamine ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 5, H303; Acute Tox. 5, H313; Aquatic Acute 3, H402; Aquatic Chronic 3, H412	10-<20%

(Contd. on page 3)

Safety Data Sheet

According to the Globally Harmonised System (GHS)

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Version No. 1

Revision: 13.01.2026

Trade name: UZIN PE 460 Comp. B

(Contd. of page 2)

CAS: 112-53-8	Lauryl alcohol ⚠ Aquatic Acute 1, H400; Aquatic Chronic 2, H411; ⚠ Eye Irrit. 2A, H319	5-<10%
CAS: 90-72-2	2,4,6-tris(dimethylaminomethyl)phenol ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Acute Tox. 5, H313	3-<5%

· **Additional information:** For the wording of the listed hazard 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:**
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 Firefighting measures

- **Extinguishing media**
- **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.
- **Advice for firefighters**
- **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.

(Contd. on page 4)

Safety Data Sheet

According to the Globally Harmonised System (GHS)

Printing date 13.01.2026

Version No. 1

Revision: 13.01.2026

Trade name: UZIN PE 460 Comp. B

(Contd. of page 3)

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.

- **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.

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/personal protection

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

- **Control parameters**

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

CAS: 1477-55-0 m-Xylylenediamine

REL (USA) Ceiling limit: 0.1 mg/m³
Skin

TLV (USA) Ceiling limit: 0.018 ppm
Skin

- **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 - acut effect 0.073 mg/mg³ (worker)

DNEL - longtime effect 0.073 mg/m³ (worker)

CAS: 9046-10-0 Polyoxypropylenediamine

Oral DNEL - longtime - systemic effects 0.04 mg/kg (human/consumer)

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)

125 mg/kg (worker)

Inhalative DNEL - longtime effect 65 mg/m³ (human/consumer)

220 mg/m³ (worker)

(Contd. on page 5)

Safety Data Sheet

According to the Globally Harmonised System (GHS)

Printing date 13.01.2026

Version No. 1

Revision: 13.01.2026

Trade name: UZIN PE 460 Comp. B

(Contd. of page 4)

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

Dermal	DNEL - longtime - systemic effects	0.2 mg/kg (worker)
Inhalative	DNEL - longtime - systemic effects	0.31 mg/m ³ (worker)

· 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)

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

PNEC - seawater	840 µg/l (seawater)
PNEC - freshwater	8.4 µg/l (freshwater)

· Exposure controls**· 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)

Only use water and mild soap or a pH-neutral skin cleanser to cleanse the skin. Do not use solvents.

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

Nitrile rubber, NBR

Butyl rubber, BR

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.

(Contd. on page 6)

AE

Safety Data Sheet

According to the Globally Harmonised System (GHS)

Printing date 13.01.2026

Version No. 1

Revision: 13.01.2026

Trade name: UZIN PE 460 Comp. B

(Contd. of page 5)

· **Eye protection:**

Tightly sealed goggles or face protection (EN 166)

9 Physical and chemical properties

· **Information on basic physical and chemical properties**· **General Information**· **Appearance:**

Form:	Fluid
Colour:	Yellow
Odour:	Amine-like
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 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:	400 mPas
Kinematic:	Not determined

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

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.

(Contd. on page 7)

Safety Data Sheet

According to the Globally Harmonised System (GHS)

Printing date 13.01.2026

Version No. 1

Revision: 13.01.2026

Trade name: UZIN PE 460 Comp. B

(Contd. of page 6)

· Hazardous decomposition products:

Corrosive 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****· 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)

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 2,980 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)

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

· Primary irritant effect:**· Skin corrosion/irritation** Caustic effect on skin and mucous membranes.**· Serious eye damage/irritation** Strong caustic effect.**· Respiratory or skin sensitisation**

Sensitisation possible through skin contact.

May cause an allergic skin reaction.

· Information on other hazards**· Endocrine disrupting properties**

CAS: 61788-44-1 Phenol, styrenated

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)

(Contd. on page 8)

Safety Data Sheet

According to the Globally Harmonised System (GHS)

Printing date 13.01.2026

Version No. 1

Revision: 13.01.2026

Trade name: UZIN PE 460 Comp. B

(Contd. of page 7)

CAS: 2855-13-2 isophorone diamineEC50/48h 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**

LC50/96h 175 mg/l (carp)

718 mg/l (*Daphnia magna*)· **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.

(Contd. on page 9)

Safety Data Sheet

According to the Globally Harmonised System (GHS)

Printing date 13.01.2026

Version No. 1

Revision: 13.01.2026

Trade name: UZIN PE 460 Comp. B

(Contd. of page 8)

- **Uncleaned packaging:**
- **Recommendation:**
Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

14 Transport information

· UN-Number	UN2735
· ADR, IMDG, IATA	
· UN proper shipping name	2735 POLYAMINES, LIQUID, CORROSIVE, N.O.S. (m-Xylylenediamine, ISOPHORONEDIAMINE), ENVIRONMENTALLY HAZARDOUS
· ADR	
· IMDG, IATA	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (m-Xylylenediamine, ISOPHORONEDIAMINE)
· Transport hazard class(es)	
· ADR, IMDG	
	
· Class	8 Corrosive substances.
· Label	8
· IATA	
	
· Class	8 Corrosive substances.
· Label	8
· Packing group	
· ADR, IMDG, IATA	II
· Environmental hazards:	Product contains environmentally hazardous substances: Phenol, styrenated
· Marine pollutant:	Yes
· Special marking (ADR):	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:	
· ADR	
· Limited quantities (LQ)	IL
· Transport category	2
· Tunnel restriction code	E
· UN "Model Regulation":	UN 2735 POLYAMINES, LIQUID, CORROSIVE, N.O.S. (M-XYLYLENEDIAMINE,

(Contd. on page 10)

Safety Data Sheet

According to the Globally Harmonised System (GHS)

Printing date 13.01.2026

Version No. 1

Revision: 13.01.2026

Trade name: UZIN PE 460 Comp. B

(Contd. of page 9)

ISOPHORONEDIAMINE), 8, II, ENVIRONMENTALLY
HAZARDOUS

15 Regulatory information

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

· **Contact:**

Product Safety Department
msds.info@uzin-utz.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 Tox. 4: Acute toxicity – Category 4
Acute Tox. 5: Acute toxicity – Category 5
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
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1A: Skin sensitisation – Category 1A
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
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

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