Printing date 24.04.2015

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Version No. 4

Revision: 24.04.2015

SECTION 1: Identification of the substance/mixture and of the company/undertaking
· 1.1 Product identifier
Trade name: <u>UZIN PE 480 Comp. A</u>
· 1.2 Relevant identified uses of the substance or mixture and uses advised against
· Sector of Use
SU19 Building and construction work SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen) For professional use only.
• Product category PC1 Adhesives, sealants
· Application of the substance / the mixture 2-Component Epoxy Moisture Barrier (Component A)
<ul> <li>1.3 Details of the supplier of the safety data sheet</li> <li>Manufacturer/Supplier: Uzin Ltd.</li> <li>Unit 2, Mitchell Court Central Park, Rugby</li> <li>Warwickshire, CV23 0UY, Telephone +44 (0) 1788 530 080</li> <li>Fax +44 (0) 1788 536508</li> <li>Email info@uzin.co.uk</li> </ul>
• Further information obtainable from: Product safety department email: msds.info@uzin-utz.com
• <b>1.4 Emergency telephone number:</b> Medical emergencies: +49 30 30 686 790 Transportation emergencies: +49 621 60 43 333
SECTION 2: Hazards identification
· 2.1 Classification of the substance or mixture · Classification according to Regulation (EC) No 1272/2008
GHS09 environment
Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.
GHS07
Skin Irrit. 2H315 Causes skin irritation.Eye Irrit. 2H319 Causes serious eye irritation.Skin Sens. 1H317 May cause an allergic skin reaction.
• Classification according to Directive 67/548/EEC or Directive 1999/45/EC
Xi; Irritant
R36/38: Irritating to eyes and skin.
Xi; Sensitising
Xi; Sensitising R43: May cause sensitisation by skin contact.
<i>R43:</i> May cause sensitisation by skin contact.

Version No. 4

Revision: 24.04.2015

Trade name: UZIN PE 480 Comp. A

Printing date 24.04.2015

The product ha	<b>Incerning particular hazards for human and environment:</b> Is to be labelled due to the calculation procedure of the "General Classification guideline f the EU" in the latest valid version.
The product is	rding to Regulation (EC) No 1272/2008 classified and labelled according to the CLP regulation. rams GHS07, GHS09
· Hazard-determ	ining components of labelling:
-	ct: bisphenol-A-(epichlorhydrin) epoxy resin (with an average molecular weight $\leq$ 700)
	l diglycidyl ether
Hazard statem	
H315 Causes st	
	erious eye irritation.
•	se an allergic skin reaction.
	aquatic life with long lasting effects.
• Precautionary	
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P273	Avoid release to the environment.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
	If skin irritation or rash occurs: Get medical advice/attention. 338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lense
1 303 +1 331 + F	present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
• Additional info	rmation: uns epoxy constituents. May produce an allergic reaction.
ELUIDOS G	

- Results of PBT and vPvB assessment
- *PBT:* Not applicable. • *vPvB:* Not applicable.

\*

## **SECTION 3: Composition/information on ingredients**

### · 3.2 Chemical characterisation: Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:		
CAS: 25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (with	50-75%
NLP: 500-033-5	an average molecular weight ≤700)	
Reg.nr.: 01-2119456619-26	🗙 Xi R36/38; 🗙 Xi R43; 🏪 N R51/53	
	🚯 Aquatic Chronic 2, H411; 🚸 Skin Irrit. 2, H315; Eye Irrit. 2,	
	H319; Skin Sens. 1, H317	
CAS: 16096-31-4	1,6-Hexanediol diglycidyl ether	10 - <25%
EINECS: 240-260-4	🗙 Xi R36/38; 🗙 Xi R43	
Reg.nr.: 01-2119463471-41	<u>R52/53</u>	

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

## **SECTION 4: First aid measures**

• 4.1 Description of first aid measures

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

(Contd. on page 3)

GB

Printing date 24.04.2015

Version No. 4

Revision: 24.04.2015

(Contd. of page 2)

Trade name: UZIN PE 480 Comp. A

- · 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.
- $\cdot$  4.2 Most important symptoms and effects, both acute and delayed Allergic reactions
- 4.3 Indication of any immediate medical attention and special treatment needed

Also observe the safety data sheet of component B.

### **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:
- *CO*<sup>2</sup> powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

### **SECTION 6: Accidental release measures**

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation
- · 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 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.
- 6.4 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.

### **SECTION 7: Handling and storage**

· 7.1 Precautions for safe handling

Wear suitable protective clothing, gloves and eye/face protection. Immediately remove all soiled and contaminated clothing Keep away from foodstuffs, beverages and feed. Avoid contact with the eyes and skin. Wash hands before breaks and at the end of work.

· Information about fire - and explosion protection: No special measures required.

- · 7.2 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.
- · 7.3 Specific end use(s) No further relevant information available.

### **SECTION 8: Exposure controls/personal protection**

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

(Contd. on page 4)

GB

Printing date 24.04.2015

Version No. 4

Revision: 24.04.2015

Trade name: UZIN PE 480 Comp. A

(Contd. of page 3) · 8.1 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. · 8.2 Exposure controls · Personal protective equipment: • General protective and hygienic measures: Immediately remove all soiled and contaminated clothing Wear suitable protective clothing, gloves and eye/face protection. Keep away from foodstuffs, beverages and feed. Avoid contact with the eyes and skin. Wash hands before breaks and at the end of work. · Respiratory protection: Not necessary. 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. · Material of gloves Butyl rubber, BR Nitrile rubber, NBR Recommended thickness of the material:  $\geq 0.5 \text{ mm}$ · Penetration time of glove material The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed. · Eye protection: Tightly sealed goggles **SECTION 9: Physical and chemical properties** · 9.1 Information on basic 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/Melting range:	Undetermined.	
<b>Boiling point/Boiling range:</b>	Undetermined.	
· Flash point:	> 100 °C	
· Flammability (solid, gaseous):	Not applicable.	
· Ignition temperature:	> 200 °C	
· Decomposition temperature:	Not determined.	
· Self-igniting:	Product is not selfigniting.	
· Danger of explosion:	Product does not present an explosion hazard.	
		(Contd. on page 3

GB

Printing date 24.04.2015

Version No. 4

Revision: 24.04.2015

Trade name: UZIN PE 480 Comp. A

		(Contd. of page 4
· 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/w	ater): Not determined.	
· Viscosity:		
Dynamic at 20 °C:	400 mPas	
Kinematic:	Not determined.	
· 9.2 Other information	No further relevant information available.	

### **SECTION 10: Stability and reactivity**

#### · 10.1 Reactivity

### · 10.2 Chemical stability

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions

May produce violent reactions with bases and numerous organic substances including alcohols and amines. Exothermic polymerisation.

- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 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.

### **SECTION 11: Toxicological information**

- · 11.1 Information on toxicological effects
- · Acute toxicity:
- Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- Sensitisation: Sensitisation possible through skin contact.

· Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Irritant

Irrita

## **SECTION 12: Ecological information**

· 12.1 Toxicity

- Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.

(Contd. on page 6)

GB

Printing date 24.04.2015

· 14.4 Packing group · ADR, IMDG, IATA

• Marine pollutant:

· 14.5 Environmental hazards:

· Special marking (ADR):

Version No. 4

Revision: 24.04.2015

(Contd. on page 7)

GB

Trade name: UZIN PE 480 Comp. A

	(Contd. of p
Ecotoxical effects: Remark: Toxic for fish	
Additional ecological information:	
General notes:	
Do not allow product to reach ground w	vater, water course or sewage system.
Toxic for aquatic organisms	
Also poisonous for fish and plankton in	water bodies.
12.5 Results of PBT and vPvB assessme	ent
<b>PBT:</b> Not applicable.	
<ul><li>vPvB: Not applicable.</li><li>12.6 Other adverse effects No further re</li></ul>	plevant information available
SECTION 13: Disposal consider	rations
13.1 Waste treatment methods	
Recommendation	
<i>The product contains materials that are</i>	harmful to the environment.
Do not allow product to reach ground w	
Disposal should be in accordance with l	local, state or national legislation.
Uncleaned packaging:	
Uncleaned packaging: Recommendation:	
<b>Recommendation:</b> Empty contaminated packagings thorou	ghly. They may be recycled after thorough and proper cleaning.
Recommendation:	ation UN3082 3082 ENVIRONMENTALLY HAZARDOUS SUBSTAL LIQUID, N.O.S. (Bisphenol-A-epoxy resin (ave
Recommendation: Empty contaminated packagings thorou, SECTION 14: Transport inform 14.1 UN-Number ADR, IMDG, IATA 14.2 UN proper shipping name ADR	ation UN3082 3082 ENVIRONMENTALLY HAZARDOUS SUBSTAL LIQUID, N.O.S. (Bisphenol-A-epoxy resin (ave molecular weight ≤ 700))
Recommendation: Empty contaminated packagings thorou, SECTION 14: Transport inform 14.1 UN-Number ADR, IMDG, IATA 14.2 UN proper shipping name	ation UN3082 3082 ENVIRONMENTALLY HAZARDOUS SUBSTA LIQUID, N.O.S. (Bisphenol-A-epoxy resin (ave molecular weight ≤700)) ENVIRONMENTALLY HAZARDOUS SUBSTAN
Recommendation: Empty contaminated packagings thorou, SECTION 14: Transport inform 14.1 UN-Number ADR, IMDG, IATA 14.2 UN proper shipping name ADR IMDG	ation UN3082 3082 ENVIRONMENTALLY HAZARDOUS SUBSTA LIQUID, N.O.S. (Bisphenol-A-epoxy resin (ave molecular weight ≤ 700)) ENVIRONMENTALLY HAZARDOUS SUBSTAN LIQUID, N.O.S. (Bisphenol-A-epoxy resin (ave molecular weight ≤ 700)), MARINE POLLUTANT
Recommendation: Empty contaminated packagings thorou, SECTION 14: Transport inform 14.1 UN-Number ADR, IMDG, IATA 14.2 UN proper shipping name ADR	ation UN3082 3082 ENVIRONMENTALLY HAZARDOUS SUBSTA LIQUID, N.O.S. (Bisphenol-A-epoxy resin (ave molecular weight ≤ 700)) ENVIRONMENTALLY HAZARDOUS SUBSTA LIQUID, N.O.S. (Bisphenol-A-epoxy resin (ave molecular weight ≤ 700)), MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS SUBSTA LIQUID, N.O.S. (Bisphenol-A-epoxy resin (ave
Recommendation: Empty contaminated packagings thorou, SECTION 14: Transport inform 14.1 UN-Number ADR, IMDG, IATA 14.2 UN proper shipping name ADR IMDG	ation UN3082 3082 ENVIRONMENTALLY HAZARDOUS SUBSTA LIQUID, N.O.S. (Bisphenol-A-epoxy resin (ave molecular weight ≤ 700)) ENVIRONMENTALLY HAZARDOUS SUBSTA LIQUID, N.O.S. (Bisphenol-A-epoxy resin (ave molecular weight ≤ 700)), MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS SUBSTA
Recommendation: Empty contaminated packagings thorou, SECTION 14: Transport informa 14.1 UN-Number ADR, IMDG, IATA 14.2 UN proper shipping name ADR IMDG IATA 14.3 Transport hazard class(es)	ation UN3082 3082 ENVIRONMENTALLY HAZARDOUS SUBSTA LIQUID, N.O.S. (Bisphenol-A-epoxy resin (ave molecular weight ≤ 700)) ENVIRONMENTALLY HAZARDOUS SUBSTA LIQUID, N.O.S. (Bisphenol-A-epoxy resin (ave molecular weight ≤ 700)), MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS SUBSTA LIQUID, N.O.S. (Bisphenol-A-epoxy resin (ave
Recommendation: Empty contaminated packagings thorou, SECTION 14: Transport inform 14.1 UN-Number ADR, IMDG, IATA 14.2 UN proper shipping name ADR IMDG IATA	ation UN3082 3082 ENVIRONMENTALLY HAZARDOUS SUBSTA LIQUID, N.O.S. (Bisphenol-A-epoxy resin (ave molecular weight ≤ 700)) ENVIRONMENTALLY HAZARDOUS SUBSTA LIQUID, N.O.S. (Bisphenol-A-epoxy resin (ave molecular weight ≤ 700)), MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS SUBSTA LIQUID, N.O.S. (Bisphenol-A-epoxy resin (ave
Recommendation: Empty contaminated packagings thorou, SECTION 14: Transport inform 14.1 UN-Number ADR, IMDG, IATA 14.2 UN proper shipping name ADR IMDG IATA 14.3 Transport hazard class(es)	ation UN3082 3082 ENVIRONMENTALLY HAZARDOUS SUBSTAN LIQUID, N.O.S. (Bisphenol-A-epoxy resin (ave molecular weight ≤ 700)) ENVIRONMENTALLY HAZARDOUS SUBSTAN LIQUID, N.O.S. (Bisphenol-A-epoxy resin (ave molecular weight ≤ 700)), MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS SUBSTAN LIQUID, N.O.S. (Bisphenol-A-epoxy resin (ave

III

Yes

Symbol (fish and tree)

Symbol (fish and tree)

Printing date 24.04.2015	Version No. 4	Revision: 24.04.2015

Trade name: UZIN PE 480 Comp. A

	(Contd. of page
· Special marking (IATA):	Symbol (fish and tree)
$\cdot$ 14.6 Special precautions for user	Warning: Miscellaneous dangerous substances and articles.
· Danger code (Kemler):	90
· EMS Number:	F-A,S-F
· 14.7 Transport in bulk according to Anne MARPOL73/78 and the IBC Code	<b>x II of</b> Not applicable.
· Transport/Additional information:	
· ADR	
$\cdot$ Limited quantities (LQ)	5L
· Transport category	3
· Tunnel restriction code	E
· UN "Model Regulation":	UN3082, ENVIRONMENTALLY HAZARDOU, SUBSTANCE, LIQUID, N.O.S. (Bisphenol-A-epoxy resin (average molecular weight $\leq$ 700)), 9, III

### **SECTION 15: Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### **SECTION 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

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.

R36/38 Irritating to eyes and skin.

*R43* May cause sensitisation by skin contact.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### • Recommended restriction of use For professional use only.

· Department issuing MSDS: Product safety department

### · Contact:

*Dr. M. Zieger, phone* +49 (0)731 4097 207 *E-Mail: 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 européen sur le transport 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 GHS: Globally Harmonised System of Classification and Labelling of Chemicals ELINCS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society)

(Contd. on page 8)

GB

Printing date 24.04.2015

Version No. 4

Revision: 24.04.2015

(Contd. of page 7)

GB

### Trade name: UZIN PE 480 Comp. A

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2 Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

 $\cdot$  \* Data compared to the previous version altered.

Printing date 24.04.2015

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Version No. 4

Revision: 24.04.2015

SECTION 1: Identification of the substance/mixture and of the company/undertaking
· 1.1 Product identifier
Trade name: UZIN PE 480 Comp. B
· 1.2 Relevant identified uses of the substance or mixture and uses advised against
· Sector of Use
SU19 Building and construction work SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen) For professional use only.
· Product category PC1 Adhesives, sealants
• Application of the substance / the mixture 2-Component Epoxy Moisture Barrier (Component B)
<ul> <li>1.3 Details of the supplier of the safety data sheet</li> <li>Manufacturer/Supplier: Uzin Ltd.</li> <li>Unit 2, Mitchell Court Central Park, Rugby</li> <li>Warwickshire, CV23 0UY, Telephone +44 (0) 1788 530 080</li> <li>Fax +44 (0) 1788 536508</li> <li>Email info@uzin.co.uk</li> </ul>
• Further information obtainable from: Product safety department email: msds.info@uzin-utz.com
• <b>1.4 Emergency telephone number:</b> Medical emergencies: +49 30 30 686 790 Transportation emergencies: +49 621 60 43 333
SECTION 2: Hazards identification
· 2.1 Classification of the substance or mixture · Classification according to Regulation (EC) No 1272/2008
GHS08 health hazard
Repr. 2 H361f Suspected of damaging fertility.
GHS05 corrosion
Skin Corr. 1B H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes serious eye damage.
GHS07
Acute Tox. 4 H302 Harmful if swallowed. Skin Sens. 1 H317 May cause an allergic skin reaction.
• Classification according to Directive 67/548/EEC or Directive 1999/45/EC
R34: Causes burns.
Xn; Harmful
R20/22-62: Harmful by inhalation and if swallowed. Possible risk of impaired fertility. (Contd. on page 2) GB

GR

## Safety data sheet according to 1907/2006/EC, Article 31

Version No. 4

Revision: 24.04.2015

Trade name: UZIN PE 480 Comp. B

Printing date 24.04.2015

R43:	May agues consisting by skin contact
	May cause sensitisation by skin contact.
The product	concerning particular hazards for human and environment: has to be labelled due to the calculation procedure of the "General Classification guideline of the EU" in the latest valid version.
2.2 Label ele	ments
Labelling acc	cording to Regulation (EC) No 1272/2008
The product i	is classified and labelled according to the CLP regulation.
	grams GHS05, GHS07, GHS08
Signal word	Danger
Hazard-deter	mining components of labelling:
Benzyl alcoho	
	yl-3,5,5-trimethylcyclohexylamine
	lidenediphenol
m-phenylenel	bis(methylamine)
Hazard state	ments
H302 Harmf	ful if swallowed.
H314 Cause	s severe skin burns and eye damage.
H317 May c	ause an allergic skin reaction.
	cted of damaging fertility.
Precautionar	
P201	Obtain special instructions before use.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
	+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin w water/shower.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P305+P351+	P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses
	present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P308+P313	IF exposed or concerned: Get medical advice/attention.
<i>P301+P330</i> +	+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
2.3 Other has	zards
	3T and vPvB assessment

## SECTION 3: Composition/information on ingredients

### · 3.2 Chemical characterisation: Mixtures

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• Description: Mixture of substances listed below with nonhazardous additions.

 • Dangerous components:
 CAS: 100-51-6
 Benzyl alcohol
 25-50%

 EINECS: 202-859-9
 ➤ Xn R20/22
 Xn R20/22

 Reg.nr.: 01-2119492630-38
 ◆ Acute Tox. 4, H302; Acute Tox. 4, H332
 (Contd. on page 3)

Printing date 24.04.2015

Version No. 4

Revision: 24.04.2015

Trade name: UZIN PE 480 Comp. B

		ontd. of page
CAS: 2855-13-2 EINECS: 220-666-8 Reg.nr.: 01-2119514687-32	3-aminomethyl-3,5,5-trimethylcyclohexylamine C R34; Xn R21/22; Xi R43 R52/53 Skin Corr. 1B, H314; ↑ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412	10 - <25%
CAS: 80-05-7 EINECS: 201-245-8	4,4'-isopropylidenediphenol Xn R62; Xi R37-41; Xi R43 R52 Repr. Cat. 3 ♦ Repr. 2, H361f; ♦ Eye Dam. 1, H318; ♦ Skin Sens. 1, H317; STOT SE 3, H335	5 - <10%
CAS: 1477-55-0 EINECS: 216-032-5	m-phenylenebis(methylamine) I R23; I CR34; X NR22; X IR43 R52/53 Acute Tox. 3, H331; I Skin Corr. 1B, H314; ↓ Acute Tox. 4, H302; Skin Sens. 1, H317; Aquatic Chronic 3, H412	3 - <5%
	Polyaminoamid	3 - <5%
CAS: 90-72-2 EINECS: 202-013-9 Reg.nr.: 01-2119560597-27	2,4,6-tris(dimethylaminomethyl)phenol C R34; Xn R22; Xi R36/38 R52/53 Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319	1 - <3%

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

### **SECTION 4: First aid measures**

• 4.1 Description of first aid measures

- · General information: Immediately remove any clothing soiled by the product.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Do not induce vomiting; call for medical help immediately.
- $\cdot$  4.2 Most important symptoms and effects, both acute and delayed Allergic reactions
- 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

### **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:

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

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters
- *Protective equipment:* Mouth respiratory protective device.

### **SECTION 6: Accidental release measures**

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation
- · 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

(Contd. on page 4)

GB

Printing date 24.04.2015

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Version No. 4

Revision: 24.04.2015

### Trade name: UZIN PE 480 Comp. B

· 6.3 Methods and material for containment and cleaning up:	(Contd. of page
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sa Dispose contaminated material as waste according to item 13.	wdust).
· 6.4 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.	
See Section 15 for disposal information.	
SECTION 7: Handling and storage	
· 7.1 Precautions for safe handling	
Wear suitable protective clothing, gloves and eye/face protection.	
Immediately remove all soiled and contaminated clothing Keep away from foodstuffs, beverages and feed.	
Avoid contact with the eyes and skin.	
Wash hands before breaks and at the end of work.	
• Information about fire - and explosion protection: No special measures required.	
· 7.2 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.	
· 7.3 Specific end use(s) No further relevant information available.	
SECTION 8: Exposure controls/personal protection • Additional information about design of technical facilities: No further data; see item 7.	
• Additional information about design of technical facilities: No further data; see item 7.	
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<ul> <li>Additional information about design of technical facilities: No further data; see item 7.</li> <li>8.1 Control parameters</li> <li>Ingredients with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical variation of monitored at the workplace.</li> <li>8.2 Exposure controls</li> <li>Personal protective equipment:</li> <li>General protective and hygienic measures: Immediately remove all soiled and contaminated clothing Wear suitable protective clothing, gloves and eye/face protection. Keep away from foodstuffs, beverages and feed. Avoid contact with the eyes and skin.</li> <li>Wash hands before breaks and at the end of work.</li> <li>Respiratory protection: Not necessary. Ensure that room is well-ventilated during proce</li> <li>Protection of hands:</li> <li>Material of gloves Butyl rubber, BR Nitrile rubber, NBR Recommended thickness of the material: ≥ 0.5 mm</li> <li>Penetration time of glove material</li> </ul>	llues that have to l ssing. he wearability.

<i>Printing date 24.04.2015</i>	Version No. 4	Revision: 24.04.201
rade name: UZIN PE 480 Comp. B		
		(Contd. of page 4
• Eye protection:		
Tightly sealed goggles		
SECTION 9: Physical and c	homical proportion	
• 9.1 Information on basic physical • General Information	ana cnemicai properiies	
· Appearance:		
Form:	Fluid	
Colour:	Brown	
· Odour:	Fish-like	
• Odour threshold:	Not determined.	
· pH-value at 20 °C:	11	
· Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	Undetermined.	
· Flash point:	> 100 °C	
· Flammability (solid, gaseous):	Not applicable.	
· Ignition temperature:	> 200 °C	
• Decomposition temperature:	Not determined.	
· Self-igniting:	Product is not selfigniting.	
• Danger of explosion:	Product does not present an explo	osion hazard.
· Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
· Vapour pressure:	Not determined.	
· Density at 20 °C:	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/wa	uer): Not aeterminea.	
· Viscosity:	1000 P	
Dynamic at 20 °C:	1000 mPas	
Kinematic: • 9.2 Other information	Not determined.	vailable
	No further relevant information a	vuiiuvie.

## SECTION 10: Stability and reactivity

· 10.1 Reactivity

\*

· 10.2 Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

• 10.3 Possibility of hazardous reactions Strong exothermic reaction with acids. • 10.4 Conditions to avoid No further relevant information available.

(Contd. on page 6)

GB

Printing date 24.04.2015

Version No. 4

Revision: 24.04.2015

(Contd. of page 5)

### Trade name: UZIN PE 480 Comp. B

- 10.5 Incompatible materials: No further relevant information available.
- 10.6 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.

### **SECTION 11: Toxicological information**

- · 11.1 Information on toxicological effects
- Acute toxicity:
- · LD/LC50 values relevant for classification:
- 100-51-6 Benzyl alcohol

Oral	LD50	1230 mg/kg (rat)
Dermal	LD50	1230 mg/kg (rat) 2000 mg/kg (rabbit)
80-05-74	4'-isonron	ylidenediphenol
00-05-7 4	,+ - <i>isoprop</i>	yuucucuipucuoi

DermalLD503000 mg/kg (rabbit)1477-55-0m-phenylenebis(methylamine)

Oral LD50 1040 mg/kg (rat)

Inhalative LC50/4 h 2.4 mg/l (rat)

- · Primary irritant effect:
- on the skin: Caustic effect on skin and mucous membranes.
- on the eye: Strong caustic effect.
- Sensitisation: Sensitisation possible through skin contact.
- · Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Harmful Corresive

- Corrosive
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

*This product contains components which may damage fertility and cause harm to the unborn child. Repr.* 2

### **SECTION 12: Ecological information**

- · 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes: Do not allow product to reach ground water, water course or sewage system.
- · 12.5 Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

(Contd. on page 7)

Printing date 24.04.2015

Version No. 4

Revision: 24.04.2015

Trade name: UZIN PE 480 Comp. B

(Contd. of page 6)

## **SECTION 13: Disposal considerations**

#### · 13.1 Waste treatment methods

### · Recommendation

Do not allow product to reach 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.

SECTION 14: Transport informa	ntion
· 14.1 UN-Number	
· ADR, IMDG, IATA	UN2289
· 14.2 UN proper shipping name	
·ADR	2289 ISOPHORONEDIAMINE, mixture
· IMDG, IATA	ISOPHORONEDIAMINE, mixture
· 14.3 Transport hazard class(es)	
· ADR, IMDG, IATA	
Class	8 Corrosive substances.
· Label	8
· 14.4 Packing group	
ADR, IMDĞ, IATA	III
14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for user	Warning: Corrosive substances.
Danger code (Kemler):	80
EMS Number:	F- $A$ , $S$ - $B$
14.7 Transport in bulk according to Ann	nex II of
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	5L
Transport category	3
Tunnel restriction code	E
· UN "Model Regulation":	UN2289, ISOPHORONEDIAMINE, mixture, 8, III

### **SECTION 15: Regulatory information**

\*

• 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

(Contd. on page 8)

Printing date 24.04.2015

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Version No. 4

Revision: 24.04.2015

Trade name: UZIN PE 480 Comp. B

(Contd. of page 7)

	<b>ION 16: Other information</b> formation is based on our present knowledge. However, this shall not constitute a guarantee for a
specific	product features and shall not establish a legally valid contractual relationship.
	<i>it phrases</i>
	Harmful if swallowed.
	Harmful in contact with skin.
	Causes severe skin burns and eye damage.
	Causes skin irritation.
	May cause an allergic skin reaction.
	Causes serious eye damage.
	Causes serious eye irritation. Toxic if inhaled.
	Harmful if inhaled.
	May cause respiratory irritation.
	Suspected of damaging fertility.
	Harmful to aquatic life with long lasting effects.
	Harmful by inhalation and if swallowed.
	Harmful in contact with skin and if swallowed.
	Harmful if swallowed.
	Toxic by inhalation.
	Causes burns.
	Irritating to eyes and skin.
	Irritating to respiratory system. Risk of serious damage to eyes.
	May cause sensitisation by skin contact.
	Harmful to aquatic organisms.
	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
	Possible risk of impaired fertility.
Kecomi	nended restriction of use For professional use only.
Departi	nent issuing MSDS: Product safety department
Contact	f•
	(leger, phone +49 (0)/31 409/ 20/
	Zieger, phone +49 (0)731 4097 207 r msds.info@uzin-utz.com
E-Mail:	msds.info@uzin-utz.com
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