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# Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 12.04.2025

Version number 49 (replaces version 48)

Revision: 12.04.2025

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

· 1.1 Product identifier	
· Trade name	Konudur 102 - Komponente A
Article number: 1.2 Relevant identified uses of the substance or mixture and uses advised against Application of the substance	278 No further relevant information available.
/ the mixture	Epoxy sealing
• 1.3 Details of the supplier of the supplier of the supplier:	he safety data sheet MC-Bauchemie Müller GmbH & Co. KG Am Kruppwald 1-8 D-46238 Bottrop Tel.: +49(0)2041-101-0 Fax.: +49(0)2041-101-400 E-Mail: info@mc-bauchemie.de MC-Bauchemie AG Hagackerstr. 10 CH-8953 Dietikon Tel.: +44-7400510 Fax : +44-7400533
<ul> <li>Informing department:</li> <li>1.4 Emergency telephone number:</li> </ul>	msds@mc-bauchemie.de Tel.: +49 / (0)700 24112112 (MCR) Tel.: +1 872 5888271 (MCR)

#### **SECTION 2: Hazards identification**

#### · 2.1 Classification of the substance or mixture

#### · Classification according to Regulation (EC) No 1272/2008

Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye irritation.
Skin Sens. 1	H317	May cause an allergic skin reaction.
Repr. 1B	H360F	May damage fertility.
Aquatic Chronic 2	H411	Toxic to aquatic life with long lasting effects.

#### · 2.2 Label elements

Labelling according to

**Regulation (EC) No 1272/2008** The product is classified and labelled according to the CLP regulation.

Hazard pictograms



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· Signal word	Danger	
· Hazard-determining		
components of labelling:		phenyldiglycidyl ether
		C12-14-alkyloxy)methyl)derivatives
		of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]
		2,2'-[methylenebis(4,1-phenyleneoxymethylene)] d 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}
	methyl)oxirane	a z-({z-[+-(oxiran-z-yimethoxy)benzyi]phenoxy}
		ts of hexane-1,6-diol with 2-(chloromethyl)oxirane
	(1:2)	
	Maleic anhydride	
<ul> <li>Hazard statements</li> </ul>	H315 Causes s	
		rerious eye irritation.
	H360F May dam	se an allergic skin reaction. age fertility
		aquatic life with long lasting effects.
· Precautionary statements	P261	Avoid breathing dust/fume/gas/mist/vapours/
2		spray.
	P273	Avoid release to the environment.
	P280	Wear protective gloves/protective clothing/eye
	D205 - D254 - D25	protection/face protection/hearing protection.
	F300+F301+F33	88 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
		present and easy to do. Continue rinsing.
	P308+P313	IF exposed or concerned: Get medical advice/
		attention.
	P405	Store locked up.
· Additional information:		ns epoxy constituents. May produce an allergic
· 2.3 Other hazards	reactior	I.
· Results of PBT and vPvB as	sessment	
· PBT:	Not applicable.	
· vPvB:	Not applicable.	

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

· 3.2 Mixtures · Description:

Mixture consisting of the following components.

· Dangerous components:		
CAS: 1675-54-3	4,4'-Methylenediphenyldiglycidyl ether	50-70%
	Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	
CAS: 9003-36-5	Reaction mass of 2,2'-[methylenebis(2,1- phenyleneoxymethylene)]bis(oxirane) and 2,2'- [methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2- ({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin Sens. 1, H317	<i>≥</i> 10-<25%
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	(0	Contd. of page 2)
CAS: 933999-84-9	<i>Reaction products of hexane-1,6-diol with 2-(chloromethyl) oxirane (1:2)</i>	≥10-<25%
	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412	
CAS: 13463-67-7	Titanium dioxide	<1%
EINECS: 236-675-5	Carc. 2, H351	
CAS: 68609-97-2	Oxirane, mono((C12-14-alkyloxy)methyl)derivatives	<i>≥</i> 0.3-<0.5%
EINECS: 271-846-8	Repr. 1B, H360F; Skin Irrit. 2, H315; Skin Sens. 1, H317	
CAS: 108-31-6	Maleic anhydride	<0.001%
EINECS: 203-571-6	Resp. Sens. 1, H334; STOT RE 1, H372; Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Sens. 1A, H317, EUH071	
	Specific concentration limit: Skin Sens. 1A; H317: C $\geq$ 0.001 %	
· Additional information	tion For the wording of the listed hazard phrases refer to s	ection 16.

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

· 4.1 Description of first aid measures

General information	Remove contaminated clothing immediately. Consult a doctor if
	symptoms occur. Move affected person to fresh air.
· After inhalation	Supply fresh air; seek medical advice if symptoms occur.
	If unconscious, place in recovery position and seek medical advice.
<ul> <li>After skin contact</li> </ul>	In case of contact with skin, wash carefully with plenty of soap and
	water. Consult a doctor in case of skin reactions.
<ul> <li>After eye contact</li> </ul>	Rinse opened eye for several minutes under running water.
-	Call a doctor immediately
· After swallowing	Rinse mouth with water. Never give anything by mouth to an
-	unconscious person. DO NOT induce vomiting. If symptoms
	persist, consult a doctor.
· 4.2 Most important sympt	toms
and effects, both acute ar	
delaved	Advice for the doctor: Elementary aid, decontamination,

# SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- Suitable extinguishing agents CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

symptomatic treatment.

 5.2 Special hazards arising from the substance or mixture

Can be released in case of fire Carbon monoxide (CO)

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#### Trade name Konudur 102 - Komponente A

- 5.3 Advice for firefighters
   Protective equipment:
- Put on breathing apparatus.

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

· 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. · 6.2 Environmental precautions: Inform respective authorities in case product reaches water or sewage system. · 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). · 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 information on disposal.

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

· 7.1 Precautions for safe		
handling	Open and handle containers with care. Ventilation measures are required in rooms without sufficient air exchange (e.g. closed rooms),	
	because the occupational exposure limit values (see chapter 8) could be exceeded. This must be avoided.	
	Wear suitable personal protective equipment (see section 8). Avoid contact with eyes, skin and clothing. Change contaminated or damaged gloves and contaminated clothing immediately and wash skin immediately. Mix slowly, partially covering the mixing container. Pour carefully and slowly when repotting. Observe the BGBau technical data sheet and practical guide for handling epoxy resins.	
<ul> <li>Information about protection against explosions and fires:</li> </ul>	Ensure sufficient air exchange and/or extraction in the working areas. Take precautionary measures to avoid electrostatic discharges.	
· 7.2 Conditions for safe storage, including any incompatibilities		
<ul> <li>Storage</li> <li>Requirements to be met by storerooms and containers:</li> <li>Further information about</li> </ul>	No special requirements.	
storage conditions:	Keep container tightly closed in a well-ventilated place. (Contd. on page 5)	



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#### Trade name Konudur 102 - Komponente A

• Storage class

6.1C

SECTION 8: Exposure controls/personal protection			
· 8.1 Contro	l parameters		
		alues that require monitoring at the workplace:	
	31-6 Maleic anhyd		
OEL (Irelan	d) Long-term valu		
		tion and vapour, Sens	
· DNELs	0.07.0.0		
		nono((C12-14-alkyloxy)methyl)derivatives	
	DNEL 0.75 mg/kg DNEL 0.49 mg/m³		
		(AIL)	
· PNECs	0.07.0.0		
		nono((C12-14-alkyloxy)methyl)derivatives	
	0072 mg/l (Mew)	tor	
	)72 mg/l (Freshwat 12 mg/kg dwt (Bod)	,	
	77 mg/kg dwt (Bod)		
		sh water sediment)	
	information:	The lists that were valid during the compilation were used as basis.	
8.2 Exposu		<b>3 1 1 1 1 1 1 1 1 1 1</b>	
	te engineering		
controls		No further data; see section 7.	
	protection measu otective and	ires, such as personal protective equipment	
hygienic m		Keep away from food, drink and animal feed.	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Remove soiled, soaked clothing immediately.	
		Wash hands before breaks and at the end of work.	
· Breathing	equipment:	Avoid contact with eyes and skin. If workplace limit values cannot be complied with by ventilation	
Dicuting	equipmenti	measures or if rooms cannot be technically ventilated, respiratory	
		protection must be worn: Use combination filter A1-P2 (brown/	
		white) in rooms that cannot be ventilated. If oxygen deficiency is expected, use self-contained breathing apparatus. Observe	
		wearing time limits according to §9 (3) GefStoffV in conjunction	
		with BGR 190.	
· Hand prote	ection	Selection of the glove material on consideration of the penetration	
· Material of	aloves	times, rates of diffusion and the degradation You can find help with choosing gloves on the website https://	
	<u></u>	www.bgbau.de/fileadmin/Gisbau/Projekte.pdf	
		For example, we recommend the Sol-vex 37-900 protective gloves	
		from Ansell GmbH. The breakthrough time of the protective gloves can be found under point 8 "Penetration time of the glove material".	
		The selection of a suitable glove depends not only on the material,	



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	(Contd. of page 5) but also on other quality features and varies from manufacturer to manufacturer. As the product
	is a preparation of several substances, the resistance of glove materials cannot be calculated in advance and must therefore be checked before use. Nitrile rubber
	Recommended material thickness:> 0.4 mm
· Penetration time of glove	
material	The breakthrough times of the Sol-vex 37-900 protective gloves are around 8 hours.
	The following applies to all other gloves:
	The exact breakthrough time must be obtained from the protective glove manufacturer and adhered to.
	Nitrile rubber
	Material thickness: ≥ 0.40 mm
	Penetration time: ≥ 480 min
	Butyl rubber: Material thickness: > 0.5 mm
	Penetration time: $\geq$ 480 min
· Eye/face protection	Tight-fitting safety goggles.
	Safety goggles.
· Body protection:	Protective clothing
	Suitable protective clothing should be worn when working with
	epoxy resins. In addition to normal work clothing (long trousers,
	long-sleeved shirt or T-shirt), disposable overalls, aprons,
	overshoes, sleeve protectors etc. may be necessary depending on
	the activity. Uncovered areas of skin should be avoided as far as
	possible, even in hot weather. If the work involves kneeling, the lower leg area should be protected by protective trousers.

9.1 Information on basic physical and chemical properties		
General Information Colour:	Red	
Smell:	Characteristic	
Melting point/freezing point: Boiling point or initial boiling point a	Not determined nd	
boiling range	>200 °C (CAS: 25068-38-6 Propyl -2,2-dipheny	
0 0	4,4'dipropyloxirane polymers and homologue molecular weight < 700)	
Flash point:	>93 °C	
Auto-ignition temperature:	184 °C	
pH	Not determined.	
Viscosity:		
Kinematic viscosity	Not determined.	
dynamic at 20 °C:	1000 mPas	



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Solubility	
Water:	Not miscible or difficult to mix
Steam pressure at 20 °C:	<0.1 hPa (CAS: 25068-38-6 Propyl -2,2-diphenyl 4,4'dipropyloxirane polymers and homologue. molecular weight < 700)
Density and/or relative density Density at 20 °C	1.14 g/cm³
9.2 Other information	
Appearance:	
Form:	Fluid
Important information on protection of hea and environment, and on safety.	alth
Self-inflammability:	Product is not selfigniting.
Explosive properties:	Product is not explosive.
classes Explosives	Void
Flammable gases Aerosols	Void Void
	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids Flammable solids	Void
	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids Pyrophoric solids	Void
	Void
Self-heating substances and mixtures Substances and mixtures, which emit	VUIU
flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void
Desensilisea explosives	VOIU

#### SECTION 10: Stability and reactivity

· 10.1 Reactivity · 10.2 Chemical stability	No further relevant information available.
<ul> <li>Thermal decomposition / conditions to be avoided:</li> <li>10.3 Possibility of hazardous</li> </ul>	No decomposition if used according to specifications.
reactions 10.4 Conditions to avoid	No dangerous reactions known No further relevant information available. No further relevant information available.

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 10.6 Hazardous decomposition products:

No dangerous decomposition products known

#### SECTION 11: Toxicological information

• **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008** • **Acute toxicity** Based on available data, the classification criteria are not met.

, louio loxiony			
LD/LC50	values that	at are relevant for classification:	
CAS: 167	75-54-3 4,4	'-Methylenediphenyldiglycidyl ether	
Oral	LD50	11400 mg/kg (rat)	
Dermal	LD50	23000 mg/kg (rabbit)	
		>2000 mg/kg (rat)	
CAS: 900	bis bis	action mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)] s(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)] s(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl) irane	
Oral	LD50	>2000 mg/kg (rat)	
Dermal	LD50	>2000 mg/kg (rabbit)	
CAS: 134	463-67-7 Ti	tanium dioxide	
Oral	LD50	>5000 mg/kg (rat)	
Dermal	LD50	>10000 mg/kg (rabbit)	
Inhalative	e LC50/4 h	h >6.8 mg/l (rat)	
CAS: 686	609-97-2 O	xirane, mono((C12-14-alkyloxy)methyl)derivatives	
Oral	LD50	17100 mg/kg (rat)	
CAS: 108	8-31-6 Male	eic anhydride	
Oral LD50 1090 mg/k		1090 mg/kg (rat)	
Dermal	LD50	2620 mg/kg (rat)	
Skin cori Serious Respirat sensitisa Germ ce Carcinog	ory or skin ation II mutagen	ationCauses skin irritation.ge/irritationCauses serious eye irritation.May cause an allergic skin reaction.icityBased on available data, the classification criteria are not met.Based on available data, the classification criteria are not met.	
STOT-single exposure			

 STOT-single exposure
 STOT-repeated exposure
 Aspiration hazard
 Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. (Contd. on page 9)



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#### Trade name Konudur 102 - Komponente A

#### · 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

# • 12.1 Toxicity

CAS: 1675-54-3 4,4-Methylenediphenyldiglycidyl ether         LCS0/72h       >11 mg/l (algae)         IC50       >42.6 mg/l (Bak)         LC50/96h       2 mg/l (Oncorhynchus mykiss)         1.3 mg/l (fish)         EC50/48h       2.1 mg/l (daphnia)         1.8 mg/l (Daphnia magna)         ErC50/72h       11 mg/l (selenastrum capricornutum)         CAS: 9003-36-5 Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]         bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]         bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]         bis(oxirane) and 2-(2'-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)         oxirane         LC50/96h       >100 mg/l (Leucidus idus)         CAS: 68609-97-2 Oxirane, mono((C12-14-alkyloxy)methyl)derivatives         EbC50/72h       843 mg/l (Pseudokirchneriella subcapitata)         LC50/96h       >5000 mg/l (Oncorhynchus mykiss)         1800 mg/l (Lepomis macrochirus)         EC50       >100 mg/l (BEL)         NOEC       500 mg/l (BEL)         NOEC       500 mg/l (No further relevant information available.         12.4 Mobility in soil       No further relevant information available.         12.5 Results of PBT and vPvB assessment       PBT:         VPVE:       Not applicable.	· Aquatic to	cicity:		
IC50       >42.6 mg/l (Bak)         LC50/96h       2 mg/l (Oncorhynchus mykiss)         1.3 mg/l (fish)         EC50/48h       2.1 mg/l (daphnia)         1.8 mg/l (Daphnia magna)         ErC50/72h       11 mg/l (Selenastrum capricornutum)         CAS: 9003-36-5 Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]         bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]         bis(oxirane) and 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]         bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethyleney]]         bis(oxirane) and 2,2'-[methylenebis(2,1-phenyleneoxymethyleney]]         bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethyleney]]         bis(oxirane) and 2,2'-[methylenebis(2,1-phenyleneoxymethyleney]]         bis(oxirane) and 2,2'-[methylenebis(2,1-phenyleneoxymethyleney]]         bis(oxirane) and 2,2'-[methylenebis(2,1-phenyleneoxymethyleney]]         bis(oxirane) and 2,2'-[actionan-2-ylmethoxylbenzyl]phenoxylmethyl]         oxirane         LC50/96h       >100 mg/l (Depunis macrochirus)         EC50       >100 mg/l (No turther relev	CAS: 1675-	54-3 4,4'-Methylene	ediphenyldiglycidyl ether	
LC50/96h       2 mg/l (Oncorhynchus mykiss)         1.3 mg/l (fish)         EC50/48h       2.1 mg/l (daphnia)         1.8 mg/l (Daphnia magna)         ErC50/72h       11 mg/l (Selenastrum capricornutum)         CAS: 9003-36-5 Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]         bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]         bis(oxirane) and 2.(2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy)methyl)         oxirane         LC50/96h       >100 mg/l (Daphnia magna)         EC50/96h       >100 mg/l (Leucidus idus)         CAS: 68609-97-2 Oxirane, mono((C12-14-alkyloxy)methyl)derivatives         EbC50/72h       843 mg/l (Pseudokirchneriella subcapitata)         LC50/96h       >5000 mg/l (Oncorhynchus mykiss)         1800 mg/l (Lepomis macrochirus)       1800 mg/l (Pseudokirchneriella subcapitata)         VC50       >100 mg/l (BEL)         NOEC       500 mg/l (Pseudokirchneriella subcapitata)         * 12.2 Persistence and       degradability         vofurther relevant information available.         * 12.3 Bioaccumulative       No further relevant information available.         * 12.4 Mobility in soil       No further relevant information available.         * 12.5 Results of PBT and vPVB assessment       Not applicable.         * PBT:       Not applicable. </th <th>LC50/72h</th> <th>&gt;11 mg/l (algae)</th> <th></th>	LC50/72h	>11 mg/l (algae)		
1.3 mg/l (fish)         EC50/48h       2.1 mg/l (daphnia)         1.8 mg/l (Daphnia magna)         ErC50/72h       11 mg/l (Selenastrum capricornutum)         CAS: 9003-36-5 Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)] bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)] bis(oxirane) and 2,2'-[methylenebis(2,1-phenyleneoxymethylene)] bis(oxirane) and 2,2'-[methylenebis(2,1-phenylenebis(2,1-phenyleneoxymethylene)] bis(oxirane) and 2,2'-[methylenebis(2,1-phenylenebis(2,1-	IC50	>42.6 mg/l (Bak)		
EC50/48h       2.1 mg/l (daphnia)         1.8 mg/l (Daphnia magna)         ErC50/72h       11 mg/l (Selenastrum capricornutum)         CAS: 9003-36-5 Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)] bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)] bis(oxirane) and 2,2'-[methylenebis(4,1-phenylenbis(4,1-phenylenbis(4,1-phenylenebis(4,1-phenylenbis(4,1-phenylenbis(4,1-phenyl	LC50/96h	2 mg/l (Oncorhynch	nus mykiss)	
1.8 mg/l (Daphnia magna)         ErC50/72h       11 mg/l (Selenastrum capricornutum)         CAS: 9003-36-5 Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)] bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)] bis(oxirane) and 2-{{2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl) oxirane         LC50/96h       >100 mg/l (Daphnia magna)         EC50/96h       >100 mg/l (Leucidus idus)         CAS: 68609-97-2 Oxirane, mono((C12-14-alkyloxy)methyl)derivatives         EbC50/72h       843 mg/l (Pseudokirchneriella subcapitata)         LC50/96h       >5000 mg/l (Oncorhynchus mykiss) 1800 mg/l (Lepomis macrochirus)         EC50       >100 mg/l (BEL) NOEC         NOEC       500 mg/l (Pseudokirchneriella subcapitata)         *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.         *12.5 Results of PBT and vPvB assessment       PBT: Not applicable.         *VPVB:       Not applicable.         *VPVB:       Not applicable.         *12.6 Endocrine disrupting properties.       The product does not contain substances with endocrine disrupting properties.         *12.7 Other adverse effects       Toxic for fish		1.3 mg/l (fish)		
ErC50/72h       11 mg/l (Selenastrum capricornutum)         CAS: 9003-36-5 Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)] bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)] bis(oxirane) and 2-{{2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl) oxirane         LC50/96h       >100 mg/l (Daphnia magna) EC50/96h       >100 mg/l (Leucidus idus)         CAS: 68609-97-2 Oxirane, mono((C12-14-alkyloxy)methyl)derivatives         EbC50/72h       843 mg/l (Pseudokirchneriella subcapitata)         LC50/96h       >5000 mg/l (Oncorhynchus mykiss) 1800 mg/l (Lepomis macrochirus)         EC50       >100 mg/l (BEL) NOEC         NOEC       500 mg/l (Pseudokirchneriella subcapitata)         *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.         *12.5 Results of PBT and vPvB assessment       Not applicable.         *VPvB:       Not applicable.         *VPvB:       Not applicable.         *VPvB:       Not applicable.         *12.6 Endocrine disrupting properties.       The product does not contain substances with endocrine disrupting properties.         *12.7 Other adverse effects       Toxic for fish	EC50/48h	2.1 mg/l (daphnia)		
ErC50/72h       11 mg/l (Selenastrum capricornutum)         CAS: 9003-36-5 Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)] bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)] bis(oxirane) and 2-{{2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl) oxirane         LC50/96h       >100 mg/l (Daphnia magna) EC50/96h       >100 mg/l (Leucidus idus)         CAS: 68609-97-2 Oxirane, mono((C12-14-alkyloxy)methyl)derivatives         EbC50/72h       843 mg/l (Pseudokirchneriella subcapitata)         LC50/96h       >5000 mg/l (Oncorhynchus mykiss) 1800 mg/l (Lepomis macrochirus)         EC50       >100 mg/l (BEL) NOEC         NOEC       500 mg/l (Pseudokirchneriella subcapitata)         *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.         *12.5 Results of PBT and vPvB assessment       Not applicable.         *VPvB:       Not applicable.         *VPvB:       Not applicable.         *VPvB:       Not applicable.         *12.6 Endocrine disrupting properties.       The product does not contain substances with endocrine disrupting properties.         *12.7 Other adverse effects       Toxic for fish		1.8 mg/l (Daphnia r	nagna)	
bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)] bis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl) oxirane         LC50/96h       >100 mg/l (Daphnia magna) EC50/96h       >100 mg/l (Leucidus idus)         CAS: 68609-97-2 Oxirane, mono((C12-14-alkyloxy)methyl)derivatives         EbC50/72h       843 mg/l (Pseudokirchneriella subcapitata)         LC50/96h       >5000 mg/l (Oncorhynchus mykiss) 1800 mg/l (Lepomis macrochirus)         EC50       >100 mg/l (BEL) NOEC         NO mg/l (Pseudokirchneriella subcapitata)         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.         12.5 Results of PBT and vPVB assessment PBT:       Not applicable.         vPVB:       Not applicable.         vPVB:       Not applicable.         12.6 Endocrine disrupting properties       The product does not contain substances with endocrine disrupting properties.         12.7 Other adverse effects       Toxic for fish	ErC50/72h	11 mg/l (Selenastru	im capricornutum)	
EC50/96h       >100 mg/l (Leucidus idus)         CAS: 68609-97-2 Oxirane, mono((C12-14-alkyloxy)methyl)derivatives         EbC50/72h       843 mg/l (Pseudokirchneriella subcapitata)         LC50/96h       >5000 mg/l (Oncorhynchus mykiss)         1800 mg/l (Lepomis macrochirus)       2500         EC50       >100 mg/l (BEL)         NOEC       500 mg/l (Pseudokirchneriella subcapitata)         *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.         *12.5 Results of PBT and vPvB assessment       PBT:         PBT:       Not applicable.         vPvB:       Not applicable.         *12.6 Endocrine disrupting properties       The product does not contain substances with endocrine disrupting properties.         *12.7 Other adverse effects       Toxic for fish	CAS: 9003-	bis(oxirane) bis(oxirane)	and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]	
CAS: 68609-97-2 Oxirane, mono((C12-14-alkyloxy)methyl)derivatives         EbC50/72h       843 mg/l (Pseudokirchneriella subcapitata)         LC50/96h       >5000 mg/l (Oncorhynchus mykiss)         1800 mg/l (Lepomis macrochirus)       1800 mg/l (BEL)         NOEC       >100 mg/l (BEL)         NOEC       5000 mg/l (Pseudokirchneriella subcapitata)         * 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.         * 12.5 Results of PBT and vPvB assessment       PBT:         * VPVB:       Not applicable.         * vPvB:       Not applicable.         * vPvB:       Not applicable.         * 12.6 Endocrine disrupting properties       The product does not contain substances with endocrine disrupting properties.         * 12.7 Other adverse effects       Toxic for fish	LC50/96h	>100 mg/l (Daphnia	a magna)	
EbC50/72h       843 mg/l (Pseudokirchneriella subcapitata)         LC50/96h       >5000 mg/l (Oncorhynchus mykiss)         1800 mg/l (Lepomis macrochirus)         EC50       >100 mg/l (BEL)         NOEC       500 mg/l (Pseudokirchneriella subcapitata)         *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.         *12.5 Results of PBT and vPvB assessment       PBT:         PBT:       Not applicable.         *VPvB:       Not applicable.         *12.6 Endocrine disrupting properties       The product does not contain substances with endocrine disrupting properties.         *12.7 Other adverse effects       Toxic for fish	EC50/96h	>100 mg/l (Leucidu	s idus)	
LC50/96h       >5000 mg/l (Oncorhynchus mykiss) 1800 mg/l (Lepomis macrochirus)         EC50       >100 mg/l (BEL) NOEC         NOEC       500 mg/l (Pseudokirchneriella subcapitata)         •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.         •12.5 Results of PBT and vPvB assessment       Not applicable.         •PBT:       Not applicable.         •VvB:       Not applicable.         •12.6 Endocrine disrupting properties       The product does not contain substances with endocrine disrupting properties.         •12.7 Other adverse effects       Toxic for fish	CAS: 68609	9-97-2 Oxirane, mo	no((C12-14-alkyloxy)methyl)derivatives	
1800 mg/l (Lepomis macrochirus)         EC50       >100 mg/l (BEL)         NOEC       500 mg/l (Pseudokirchneriella subcapitata)         • 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.         • 12.5 Results of PBT and vPvB assessment       • PBT:         • PBT:       Not applicable.         • vPvB:       Not applicable.         • 12.6 Endocrine disrupting properties       The product does not contain substances with endocrine disrupting properties.         • 12.7 Other adverse effects       • Toxic for fish	EbC50/72h 843 mg/l (Pseudok		irchneriella subcapitata)	
EC50       >100 mg/l (BEL)         NOEC       500 mg/l (Pseudokirchneriella subcapitata)         *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.         *12.5 Results of PBT and vPvB assessment       PBT:         *PBT:       Not applicable.         *vPvB:       Not applicable.         *12.6 Endocrine disrupting properties       The product does not contain substances with endocrine disrupting properties.         *12.7 Other adverse effects       Toxic for fish	LC50/96h >5000 mg/l (Oncorl		hynchus mykiss)	
NOEC       500 mg/l (Pseudokirchneriella subcapitata)         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.         12.5 Results of PBT and vPvB assessment       Not applicable.         PBT:       Not applicable.         vPvB:       Not applicable.         12.6 Endocrine disrupting properties       The product does not contain substances with endocrine disrupting properties.         12.7 Other adverse effects       Toxic for fish	1800 mg/l (Lepomi		s macrochirus)	
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.         12.5 Results of PBT and vPvB assessment       Not applicable.         PBT:       Not applicable.         vPvB:       Not applicable.         12.6 Endocrine disrupting properties       The product does not contain substances with endocrine disrupting properties.         12.7 Other adverse effects       Toxic for fish	EC50	>100 mg/l (BEL)		
degradabilityNo further relevant information available.12.3 Bioaccumulative potentialNo further relevant information available.12.4 Mobility in soilNo further relevant information available.12.5 Results of PBT and vPvB PBT:AssessmentPBT:Not applicable.vPvB:Not applicable.12.6 Endocrine disrupting propertiesThe product does not contain substances with endocrine disrupting properties.12.7 Other adverse effectsToxic for fish	NOEC	500 mg/l (Pseudoki	irchneriella subcapitata)	
	degradabil 12.3 Bioaco potential 12.4 Mobili 12.5 Result PBT: vPvB: 12.6 Endoc properties 12.7 Other Remark: Additional	ity cumulative ty in soil s of PBT and vPvB rine disrupting adverse effects ecological informa	No further relevant information available. No further relevant information available. <b>assessment</b> Not applicable. Not applicable. The product does not contain substances with endocrine disrupting properties. Toxic for fish <b>tion:</b>	
• General notes: Toxic for aquatic organisms (Contd. on page 10)	<sup>.</sup> General no	tes:	Toxic for aquatic organisms (Contd. on page 10)	



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Also poisonous for fish and plankton in water bodies. Do not allow product to reach ground water, water bodies or sewage system.

Danger to drinking water if even small quantities leak into soil.

#### SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· European waste catalogue

· Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

17 00 00	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL

- FROM CONTAMINATED SITES)
- 17 09 00 other construction and demolition wastes
- 17 09 03\* other construction and demolition wastes (including mixed wastes) containing hazardous substances
- 15 00 00 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
- 15 01 00 packaging (including separately collected municipal packaging waste)
- 15 01 01 paper and cardboard packaging
  - 15 00 00 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
- 15 01 00 packaging (including separately collected municipal packaging waste)
- 15 01 02 plastic packaging
- HP4 Irritant skin irritation and eye damage
  HP10 Toxic for reproduction
  HP13 Sensitising
  HP14 Ecotoxic

Uncleaned packagings:

· Recommendation:

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

SECTION 14: Transport information	
· 14.1 UN number or ID number · ADR, IMDG, IATA	UN3082
· 14.2 UN proper shipping name · ADR, IATA	ENVIRONMENTALLY HAZARDOU SUBSTANCE, LIQUID, N.O.S. (Epoxide resin)
	(Contd. on page



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IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxide resin) MARINE POLLUTANT
14.3 Transport hazard class(es)	
ADR	
Class	9 (M6) Miscellaneous dangerous substances and articles.
Label	9
IMDG, IATA	
Class	9 Miscellaneous dangerous substances and articles.
Label	9
14.4 Packing group ADR, IMDG, IATA	III
14.5 Environmental hazards:	
Marine pollutant:	Yes
	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
Special marking (IATA):	Symbol (fish and tree)
14.6 Special precautions for user	Warning: Miscellaneous dangerous substances and articles.
Kemler Number:	90
EMS Number:	F-A,S-F
Stowage Category	A
14.7 Maritime transport in bulk accordin IMO instruments	ng to Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
,,	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
Transport category	3
Tunnel restriction code	(-)
IMDG	
Limited quantities (LQ)	5L
	(Contd. on page 12



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• Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXIDE RESIN), 9, III

# SECTION 15: Regulatory information

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

<ul> <li>Directive 2012/18/EU</li> <li>Qualifying quantity (tonnes) for the application of lower-</li> </ul>	
tier requirements	200 t
<ul> <li>Qualifying quantity (tonnes) for the application of upper-</li> </ul>	
tier requirements	500 t
· REGULATION (EC) No 1907/2006 ANNEX XVII	Conditions of restriction: 3
DIRECTIVE 2011/65/EU on the electrical and electronic equ	ne restriction of the use of certain hazardous substances in ipment – Annex II
None of the ingredients is liste	<i>d</i> .
· REGULATION (EU) 2019/114	8
• Annex I - RESTRICTED EXPL licensing under Article 5(3))	LOSIVES PRECURSORS (Upper limit value for the purpose of
None of the ingredients is liste	d.
· Annex II - REPORTABLE EX	PLOSIVES PRECURSORS
None of the ingredients is liste	d.
· Regulation (EC) No 273/2004	on drug precursors
None of the ingredients is liste	d.
• Regulation (EC) No 111/2005 Community and third countr	b laying down rules for the monitoring of trade between the ries in drug precursors
None of the ingredients is liste	d.

· 15.2 Chemical safety

assessment:

A Chemical Safety Assessment has not been carried out.

#### **SECTION 16: Other information**

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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· Relevant phrases	H302	Harmful if swallowed.		
-	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.		
	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.		
	H351	Suspected of causing cancer.		
	H360F	May damage fertility.		
	H372	Causes damage to organs through prolonged or repeated exposure.		
	H411	Toxic to aquatic life with long lasting effects.		
	H412	Harmful to aquatic life with long lasting effects.		
	EUH071	Corrosive to the respiratory tract.		
· Department issuing data				
specification sheet:	Environn	nent protection department.		
• Date of previous version:	13.10.20			
Version number of previous				
version:	48			
Abbreviations and acronyms:	RID: Règ	lement international concernant le transport des marchandises		
	dangereu	ses par chemin de fer (Regulations Concerning the International		
		of Dangerous Goods by Rail)		
	ICAO: International Civil Aviation Organisation ADR: Accord relatif au transport international des marchandises dangereuses par			
		opean Agreement Concerning the International Carriage of Dangerous		
		ernational Maritime Code for Dangerous Goods		
		rnational Air Transport Association pally Harmonised System of Classification and Labelling of Chemicals		
	EINECS: E	European List of Notified Chemical Substances		
		nical Abstracts Service (division of the American Chemical Society)		
		rived No-Effect Level (REACH)		
		edicted No-Effect Concentration (REACH)		
		nal concentration, 50 percent nal dose, 50 percent		
		istent. Bioaccumulative and Toxic		
		Persistent and very Bioaccumulative		
		4: Acute toxicity – Category 4		
		1B: Skin corrosion/irritation – Category 1B 2: Skin corrosion/irritation – Category 2		
		1: Serious eye damage/eye irritation – Category 1		
		: Serious eye damage/eye irritation – Category 2		
		s. 1: Respiratory sensitisation – Category 1		
		. 1: Skin sensitisation – Category 1 . 1A: Skin sensitisation – Category 1A		
		arcinogenicity – Category 2		
	Repr. 1B: I	Reproductive toxicity – Category 1B		
	STOT RE	1: Specific target organ toxicity (repeated exposure) – Category 1		
		hronic 2: Hazardous to the aquatic environment - long-term aquatic		
	hazard _ (	ategory 2		
	hazard – C Aquatic C hazard – C	hronic 3: Hazardous to the aquatic environment - long-term aquatic		



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• \* Data compared to the previous version altered.

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