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

Printing date 15.03.2024

Version number 31

Revision: 15.03.2024

· Product identifier	
 Trade name Relevant identified uses of the substance or mixture and 	Konudur 160 PL-XL - Komponente A
uses advised against • Application of the substance	No further relevant information available.
/ the mixture	Epoxy sealing
• Details of the supplier of the s	
· Manufacturer/Supplier:	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
· Informing department:	msds@mc-bauchemie.de
2 Hazards identification • Classification of the substanc	e or mixture
	e or mixture H315 Causes skin irritation.
• Classification of the substanc Skin Irrit. 2	
• Classification of the substanc Skin Irrit. 2	H315 Causes skin irritation.
 Classification of the substance Skin Irrit. 2 Serious eye damage/irritation – 	H315 Causes skin irritation. Category 2A H319 Causes serious eye irritation.
 Classification of the substance Skin Irrit. 2 Serious eye damage/irritation – Skin Sens. 1 	H315 Causes skin irritation. Category 2A H319 Causes serious eye irritation. H317 May cause an allergic skin reaction.
 Classification of the substance Skin Irrit. 2 Serious eye damage/irritation – Skin Sens. 1 Aquatic Chronic 2 	H315 Causes skin irritation. Category 2A H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H411 Toxic to aquatic life with long lasting effects.
 Classification of the substance Skin Irrit. 2 Serious eye damage/irritation – Skin Sens. 1 Aquatic Chronic 2 Label elements 	H315 Causes skin irritation. Category 2A H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H411 Toxic to aquatic life with long lasting effects. The product is classified and labelled according to the Globa
 Classification of the substance Skin Irrit. 2 Serious eye damage/irritation – Skin Sens. 1 Aquatic Chronic 2 Label elements GHS label elements 	H315 Causes skin irritation. Category 2A H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H411 Toxic to aquatic life with long lasting effects. The product is classified and labelled according to the Globa Harmonised System (GHS).
 Classification of the substance Skin Irrit. 2 Serious eye damage/irritation – Skin Sens. 1 Aquatic Chronic 2 Label elements GHS label elements 	H315 Causes skin irritation. Category 2A H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H411 Toxic to aquatic life with long lasting effects. The product is classified and labelled according to the Globa Harmonised System (GHS).
 Classification of the substance Skin Irrit. 2 Serious eye damage/irritation – Skin Sens. 1 Aquatic Chronic 2 Label elements GHS label elements 	H315 Causes skin irritation. Category 2A H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H411 Toxic to aquatic life with long lasting effects. The product is classified and labelled according to the Globa Harmonised System (GHS).
 Classification of the substance Skin Irrit. 2 Serious eye damage/irritation – Skin Sens. 1 Aquatic Chronic 2 Label elements GHS label elements Hazard pictograms 	H315 Causes skin irritation. Category 2A H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H411 Toxic to aquatic life with long lasting effects. The product is classified and labelled according to the Globa Harmonised System (GHS). GHS07 GHS09
 Classification of the substance Skin Irrit. 2 Serious eye damage/irritation – Skin Sens. 1 Aquatic Chronic 2 Label elements GHS label elements Hazard pictograms Signal word 	H315 Causes skin irritation. Category 2A H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H411 Toxic to aquatic life with long lasting effects. The product is classified and labelled according to the Globa Harmonised System (GHS). GHS07 GHS09
 Classification of the substance Skin Irrit. 2 Serious eye damage/irritation – Skin Sens. 1 Aquatic Chronic 2 Label elements GHS label elements Hazard pictograms Signal word Hazard-determining 	H315 Causes skin irritation. Category 2A H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H411 Toxic to aquatic life with long lasting effects. The product is classified and labelled according to the Globa Harmonised System (GHS). GHS07 GHS09 Warning epoxide derivates Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxira



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Revision: 15.03.2024 Printing date 15.03.2024 Version number 31 Trade name Konudur 160 PL-XL - Komponente A (Contd. of page 1) · Hazard statements Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects. Avoid breathing dust/fume/gas/mist/vapours/spray. · Precautionary statements Avoid release to the environment. Wear protective gloves / eye protection / face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. · Other hazards · Results of PBT and vPvB assessment · PBT: Not applicable. Not applicable.

· vPvB:

3 Composition/information on ingredients

· Chemical characterisation: Mixtures

· Description: Mixture consisting of the following components.

CAS: 1675-54-3	epoxide derivates	60-80%
	Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	
CAS: 933999-84-9	Reaction products of hexane-1,6-diol with 2-(chloromethyl) oxirane (1:2) Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412	≥10-<25%
	Reaction mass of 2,2'-[methylenebis(4,1- phenyleneoxymethylene)]dioxirane and 2-({2-[4-(oxiran-2- ylmethoxy)benzyl]phenoxy}methyl)oxirane and 2,2'- [methylenebis(2,1-phenyleneoxymethylene)]dioxirane	<i>≥</i> 10-<25%
	Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin Sens. 1, H317; Acute Tox. 5, H303; Acute Tox. 5, H313	
CAS: 13463-67-7	titanium dioxide Carc. 2, H351; Acute Tox. 5, H333	<0.5%
CAS: 68609-97-2	Oxirane, mono[(C12-14-alkyloxy)methyl] derivatives Skin Irrit. 2, H315; Skin Sens. 1, H317	<i>≥</i> 0.1-<0.5%

4 First aid measures

· Description of first aid measures

· General information

Remove contaminated clothing immediately. Consult a doctor if symptoms occur. Move affected person to fresh air.

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 After inhalation 	Supply fresh air; seek medical advice if symptoms occur.
	If unconscious, place in recovery position and seek medical advice.
· After skin contact	In case of contact with skin, wash carefully with plenty of soap and water. Consult a doctor in case of skin reactions.
 After eye contact 	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.
 Information for doctor 	
 Most important symptoms 	
and effects, both acute and	
delayed	Advice for the doctor: Elementary aid, decontamination, symptomatic treatment.

5 Firefighting measures

• Extinguishing media

· Suitable extinguishing agents Use fire fighting measures that suit the environment.

• Special hazards arising from

- *the substance or mixture* No further relevant information available. • Advice for firefighters
- · Protective equipment:
- No special measures required.

6 Accidental release measures

 Personal precautions, protective equipment and 	
emergency procedures	Not required.
• Environmental precautions:	Prevent material from reaching sewage system, holes and cellars.
Methods and material for	
containment and cleaning up	: Absorb with liquid-binding material (sand, diatomite, acid binders,
• •	universal binders, sawdust).

- 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.

7 Handling and storage

· Handling

· Precautions for safe handling Open and handle containers with care.

Only use in well-ventilated areas (e.g. open construction, outdoor areas), in rooms without air exchange (e.g. closed rooms, underground car parks) ventilation measures are required. are required.

Wear suitable personal protective equipment (see section 8). Avoid contact with eyes, skin and clothing. Change contaminated or (Contd. on page 4)



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		ut protection	(Contd. of page 3) 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. Open and handle containers with care. Ensure sufficient air exchange and/or extraction in the working
ayams	against explosions and fires:		areas. Take precautionary measures to avoid electrostatic discharges.
· Condit · Storag		afe storage, il	ncluding any incompatibilities
· Requir storer	rements to coms and	be met by containers: tion about	No special requirements.
storag	e conditio le class		Keep container tightly closed in a well-ventilated place. 10
8 Expo	sure cor	ntrols/perso	onal protection
· Additio	onal infori	nation about	No further data; see section 7.
· Compo values	ol paramet onents wit that requ oring at th	th critical	The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
·DNELs			
			no[(C12-14-alkyloxy)methyl] derivatives
Oral		1 mg/kg bw/T	
Derma Inhalat		1.7 mg/kg bw. 0.98 mg/m³ (A	
· PNECs	5		
			no[(C12-14-alkyloxy)methyl] derivatives
PNEC	PNEC 0.00072 mg/l (Mew)		
	0.0072 mg/l (Freshwate		つ しんしょう しんしょう しんしょう しんしょう ひょうしょう ひょうしょう ひょうしょう ひょうしょう ひょうしょう ひょうしょう ひょうしょう ひょうしょう ひょうしょう ひょう ひょう ひょう ひょう ひょう ひょう ひょう ひょう ひょう ひ
PNEC	PNEC 80.12 mg/kg dwt (Bod)		
	6.677 mg/	′kg dwt (Sedim	ent)
	66.77 mg/	′kg dwt (Fresh	water sediment)
· Additio	onal inforr	nation:	The lists that were valid during the compilation were used as basis.
Persor	ure contro nal protect al protecti	tive equipmer	nt
	nic measu		Keep away from food, drink and animal feed. Remove soiled, soaked clothing immediately.
			(Contd. on page 5)



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	Wash hands before breaks and at the end of work.
	Avoid contact with eyes and skin.
· Breathing equipment:	If workplace limit values cannot be complied with by ventilati
	measures or if rooms cannot be technically ventilated, respirate
	protection must be worn: Use combination filter A1-P2 (brow
	white) in rooms that cannot be ventilated. If oxygen deficiency
	expected, use self-contained breathing apparatus. Obser
	wearing time limits according to §9 (3) GefStoffV in conjuncti
Dratastian of handas	with BGR 190.
· Protection of hands:	Selection of the glove material on consideration of the penetrati
Matarial of alayon	times, rates of diffusion and the degradation
· Material of gloves	You can find help with choosing gloves on the website https
	www.bgbau.de/fileadmin/Gisbau/Projekte.pdf For example, we recommend the Sol-vex 37-900 protective glov
	from Ansell GmbH. The breakthrough time of the protective glov
	can be found under point 8 "Penetration time of the glove materia
	The selection of a suitable glove depends not only on the matern
	but also on other quality features and varies from manufacturer manufacturer. As the product
	is a preparation of several substances, the resistance of glo
	materials cannot be calculated in advance and must therefore
	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 glov
	are around 8 hours.
	The following applies to all other gloves:
	The exact breakthrough time must be obtained from the protect
	glove manufacturer and adhered to.
	Nitrile rubber
	Material thickness: \geq 0.40 mm
	Penetration time: \geq 480 min
	Butyl rubber:
	Material thickness: \geq 0.5 mm
	Penetration time: \geq 480 min
· Eye protection:	Tight-fitting safety goggles.
	Safety goggles.
· Body protection:	Protective clothing
	Suitable protective clothing should be worn when working w
	epoxy resins. In addition to normal work clothing (long trouse
	long-sleeved shirt or T-shirt), disposable overalls, apror
	overshoes, sleeve protectors etc. may be necessary depending
	the activity. Uncovered areas of skin should be avoided as far
	possible, even in hot weather. If the work involves kneeling, t

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 Information on basic physical and chen General Information 		
Appearance:		
Form:	Fluid	
Colour:	According to product specification	
· Smell:	Characteristic	
· pH-value:	Not determined.	
· Change in condition		
Melting point/freezing point:	Not determined	
Initial boiling point and boiling range:	>200 °C	
· Flash point:	>93 °C	
Auto-ignition temperature:	460 °C	
· Self-inflammability:	Product is not selfigniting.	
• Explosive properties:	Product is not explosive.	
· Steam pressure at 20 °C:	<0.1 hPa	
· Density at 20 °C	1.17 g/cm³	
· Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix	
· Viscosity:		
dynamic:	Not determined.	
kinematic:	Not determined.	
Other information		

No further relevant information available.
No decomposition if used according to specifications.
No dangerous reactions known
No further relevant information available.
No further relevant information available.
No dangerous decomposition products known

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1 Toxicol	ogical in	formation	
		icological effects	
· Acute tox	•		
		at are relevant for classification:	
	-	oxide derivates	
Dermal	LD50	23000 mg/kg (rabbit)	
CAS: 900	and	action mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirand d 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane and 2,2 ethylenebis(2,1-phenyleneoxymethylene)]dioxirane	
Oral	LD50	>2000 mg/kg (rat)	
Dermal	LD50	>2000 mg/kg (rabbit)	
CAS: 134	63-67-7 tit	tanium dioxide	
Oral	LD50	>5000 mg/kg (rat)	
Dermal	LD50	>10000 mg/kg (rabbit)	
Inhalative	LC50/4 h	>6.8 mg/l (rat)	
CAS: 686	09-97-2 O	xirane, mono[(C12-14-alkyloxy)methyl] derivatives	
Oral	LD50	17100 mg/kg (rat)	
 Primary in Skin corra Serious e Respirato sensitisat Additiona informatio 	osion/irrit ye damag ory or skin tion Il toxicolo	ation Irritant for skin and mucous membranes. pe/irritation No irritant effect. No sensitizing effect known.	

12 Ecological information

· Toxicity	
· Aquatic to	xicity:
CAS: 1675	-54-3 epoxide derivates
IC50	>42.6 mg/l (Bak)
LC50/96h	2 mg/l (Oncorhynchus mykiss)
EC50/48h	1.8 mg/l (Daphnia magna)
ErC50/72h	11 mg/l (Selenastrum capricornutum)
CAS: 9003	-36-5 Reaction mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane and 2,2'- [methylenebis(2,1-phenyleneoxymethylene)]dioxirane
LC50/96h	>100 mg/l (Daphnia magna)
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- · ·	rse effects	No further relevant information available.
vPvB:		Not applicable.
PBT:		Not applicable.
Results of F	PBT and vPvB a	
		Danger to drinking water if even small quantities leak into soil.
		sewage system.
		Do not allow product to reach ground water, water bodies of
		Also poisonous for fish and plankton in water bodies.
General not		Toxic for aquatic organisms
Additional e	ecological infor	mation:
Remark:		Toxic for fish
Ecotoxical e		
Mobility in s	soil	No further relevant information available.
Bioaccumu	lative potential	No further relevant information available.
Behaviour i	n environmenta	al systems:
		ility No further relevant information available.
NOEC	500 mg/l (Pseud	lokirchneriella subcapitata)
	>100 mg/l (BEL)	
5050	• • •	
	• •	omis macrochirus)
LC50/96h	>5000 ma/l (On	corhynchus mykiss)
EbC50/72h	843 mg/l (Pseud	lokirchneriella subcapitata)
CAS: 68609	-97-2 Oxirane, I	mono[(C12-14-alkyloxy)methyl] derivatives
	>100 mg/l (Leucidus idus)	

13 Disposal considerations

Recommendation	Must not be disposed of together with household garbage. Do allow product to reach sewage system.
Uncleaned packagings:	
Recommendation:	Dispose of packaging according to regulations on the disposal packagings. Empty contaminated packagings thoroughly. They can be recycl after thorough and proper cleaning.
	after thorough and proper cleaning.
Transport information	

· UN-Number · ADR, IMDG, IATA

UN3082

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· UN proper shipping name	
ADR, IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE
	LIQUID, N.O.S. (epoxide derivates)
IMDG	ENVIRÓNMENTALLY HAZARDÓUS SUBSTANCE
	LIQUID, N.O.S. (epoxide derivates), MARIN
	POLLUTANT
Transport hazard class(es)	
ADR	
Class	9 (M6) Miscellaneous dangerous substances an
	articles.
Label	9
IMDG, IATA	
Class	9 Miscellaneous dangerous substances and articles.
Label	9
Packing group	
ADR, IMDG, IATA	III
Environmental hazards:	
Marine pollutant:	Yes
-	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
Special marking (IATA):	Symbol (fish and tree)
Special precautions for user	Warning: Miscellaneous dangerous substances an
	articles.
Kemler Number:	90
EMS Number:	F-A,S-F
Stowage Category	A
Transport in bulk according to Ani	
Marpol and the IBC Code	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
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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 DERIVATES), 9, III

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

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.

Department issuing data specification sheet: Contact:	Environment protection department.
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. 5: Acute toxicity – Category 5
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• * Data compared to the	
previous version altered.	AE