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Safety Data Sheet according to P.U.(A) 310/2013

Printing date 10.12.2024

Version number 36

Revision: 10.12.2024

Product identifier	
Trade name Recommended use of the chemical and restrictions on	Konudur 170 TR-NA - Komponente A
use	No further relevant information available.
Application of the substance / the mixture	Epoxy resin
Details of the supplier of the s Manufacturer/Supplier:	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
Informing department:	msds@mc-bauchemie.de
Hazard identification	
Classification of the substand	e or mixture
Skin Irrit. 2 H315 Cause	s skin irritation.
Eye Irrit. 2 H319 Cause	s serious eye irritation.
Skin Sens. 1 H317 May ca	ause allergic skin reaction.
Carc. 2 H351 Suspe	cted of causing cancer. Route of exposure: Inhalation.
	o aquatic life with long lasting effects.
Aquatic Chronic 2 H411 Toxic t	
Label elements	The product is classified and labelled according to the Global. Harmonised System (GHS).
Label elements GHS label elements	Harmonised System (GHS).
Label elements GHS label elements Hazard pictograms	Harmonised System (GHS). GHS07 GHS08 GHS09
Aquatic Chronic 2 H411 Toxic t Label elements GHS label elements Hazard pictograms Signal word Hazard-determining	



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	-	ts of hexane-1,6-diol with 2-(chloromethyl)oxirane
	(1:2)	
 Hazard statements 	H315 Causes ski	in irritation.
	H319 Causes se	rious eye irritation.
	H317 May cause	allergic skin reaction.
	H351 Suspected	of causing cancer. Route of exposure: Inhalation.
	H411 Toxic to aq	uatic life with long lasting effects.
• Precautionary statements	P261	Avoid breathing dust/fume/ gas/mist/vapours/ spray.
	P280	Wear protective gloves / eye protection / face protection.
	P281	Use personal protective equipment as required.
	P305+P351+P33	88 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P362	Take off contaminated clothing and wash before reuse.
	P363	Wash contaminated clothing before reuse.
 Other hazards Results of PBT and vPvB as 	sessment	-
· PBT:	Not applicable.	
vPvB:	Not applicable.	

3 Composition and information of the ingredients of the hazardous chemical

• **Description:** Mixture consisting of the following components.

CAS: 1675-54-3	epoxide derivates	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(4,1- phenyleneoxymethylene)]dioxirane and 2-({2-[4-(oxiran-2- ylmethoxy)benzyl]phenoxy}methyl)oxirane and 2,2'- [methylenebis(2,1-phenyleneoxymethylene)]dioxirane	≥10-<25%
	Aquatic Chronic 2, H411; Skin Irrit. 2, H315; 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-<259
CAS: 13463-67-7	Titanium Dioxide Carc. 2, H351	≥1-<1.5%
CAS: 4394-85-8	4-morpholinecarbaldehyde Skin Sens. 1, H317	≥0.1-<0.59

[·] Chemical characterisation: Mixtures



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· Additional information	(Contd. of page 2) For the wording of the listed hazard phrases refer to section 16.
4 First-aid measures	
· Description of first aid me	asures
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.
· 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

- · Information for doctor
- Most important symptoms and effects, both acute and delayed

Advice for the doctor: Elementary aid, decontamination, symptomatic treatment.

5 Fire-fighting measures

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

persist, consult a doctor.

- 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	Wear protective clothing.
· Environmental precautions:	Inform respective authorities in case product reaches water or sewage system.
• Methods and material for	
containment and cleaning up	: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
	Ensure adequate ventilation.
 Reference to other sections 	See Section 7 for information on safe handling
	See Section 8 for information on personal protection equipment.
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' Handling and storage	
· Handling	
	Open and handle containers with care. Ventilation measures are required in rooms without sufficient ai 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 o damaged gloves and contaminated clothing immediately and wast 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.
Information about protection against explosions and fires:	Ensure sufficient air exchange and/or extraction in the working areas. Take precautionary measures to avoid electrostation discharges.
Conditions for safe storage, in	ncluding any incompatibilities
Storage	
 Requirements to be met by storerooms and containers: Further information about 	No special requirements.
storage conditions: • Storage class	None. 10

8 Exposure controls and personal protection

- · Additional information about design of technical systems: No further data; see section 7.
- · Control parameters
- Components with critical 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. The lists that were valid during the compilation were used as basis.

· Exposure controls

· Additional information:

- Personal protective equipment
- General protective and hygienic measures
- Keep away from food, drink and animal feed. Remove soiled, soaked clothing immediately. Wash hands before breaks and at the end of work. Avoid contact with eyes and skin.

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· Breathing equipment:	(Contd. of page 4) If workplace limit values cannot be complied with by ventilation
Dicatining equipment.	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 BĞR 190.
 Protection of hands: 	Selection of the glove material on consideration of the penetration
	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 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,
	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
Eve protection	Penetration time: ≥ 480 min
• Eye protection:	Tight-fitting safety goggles. Safety goggles.
· Body protection:	Protective clothing
Body protection.	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.
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Information on basic physical an	d chemical properties	
General Information		
Appearance: Form:	Pasty	
Colour:	Whitish	
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:	151 °C	
Auto-ignition temperature	184 °C	
Auto-ignition temperature	Product is not selfigniting.	
Explosive properties:	Product is not explosive.	
Steam pressure:	Not determined.	
Density at 20 °C	1.25 g/cm³	
Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix	
Viscosity:		
dynamic:	Not determined.	
kinematic:	Not determined.	

10 Stability and reactivity · Reactivity No further relevant information available. · Chemical stability Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications. · Possibility of hazardous No dangerous reactions known reactions · Conditions to avoid No further relevant information available. · Incompatible materials: No further relevant information available. · Hazardous decomposition products: No dangerous decomposition products known

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11 Toxicol	1 Toxicological information			
	· Information on toxicological effects · Acute toxicity			
· LD/LC50	· LD/LC50 values that are relevant for classification:			
CAS: 167	CAS: 1675-54-3 epoxide derivates			
Dermal	LD50	23000 mg/	/kg (rabbit)	
CAS: 900	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			
Oral	LD50	>2000 mg/	/kg (rat)	
Dermal	LD50	>2000 mg/	/kg (rabbit)	
CAS: 134	63-67-7 Ti	tanium Dio	xide	
Oral	LD50	>5000 mg/	/kg (rat)	
Dermal	LD50	>10000 mg	g/kg (rabbit)	
Inhalative	LC50/4 h	>6.8 mg/l ((rat)	
Skin corr Serious e irritation Respirate sensitiza Addition	 Primary irritant effect: Skin corrosion or irritation Serious eye damage or eye irritation Respiratory / skin sensitization Additional toxicological information: The product shows the following dangers according to calculation method of the General EC Classification Guidelines Preparations as issued in the latest version: Irritant 			
mutagen	 CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) 		Carc. 2	

12 Ecological information

Aquatic to	kicity:	
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)	



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and 2-({2-[[,]	Contd. of page hass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane 4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane and 2,2'- bis(2,1-phenyleneoxymethylene)]dioxirane	
LC50/96h >100 mg/l (Daph	nia magna)	
Persistence and degradabi Behaviour in environmenta	lity No further relevant information available. Il systems:	
Bioaccumulative potential	No further relevant information available.	
Mobility in soil	No further relevant information available.	
Ecotoxical effects:		
Remark:	Toxic for fish	
Additional ecological inform	mation:	
General notes:	Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms	
	Do not allow product to reach ground water, water bodies of sewage system.	
	Danger to drinking water if even small quantities leak into soil.	
Results of PBT and vPvB a		
PBT:	Not applicable.	
vPvB:	Not applicable.	
Other adverse effects	No further relevant information available.	

13 Disposal information

· Waste treatment methods · Recommendation	Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
 Uncleaned packagings: Recommendation: 	Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

UN-Number	
ADR, IMDG, IATA	UN3082
UN proper shipping name	
ADR, IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S. (epoxide derivates)
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S. (epoxide derivates), MARIN POLLUTANT



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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	<i>III</i>
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 Annex	
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
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 HAZARDOU
	SUBSTANCE, LIQUID, N.O.S. (EPOXID DERIVATES), 9, III
	/, -,

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15 Regulatory information

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

· EHS reference list

CAS: 1675-54-3 epoxide derivates

 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: • * Data compared to the previous version altered.	 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) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Skin Irit. 2: Skin corrosion or irritation – Category 2 Eye Irrit. 2: Serious eye damage or eye irritation – Category 2 Skin Sens. 1: Skin sensitization – Category 1 Carc. 2: Carcinogenicity – Category 2 Aquatic Chronic 2: Hazardous to the aquatic environment - chronic hazard – Category 3
previous version altereu.	