

Page 1/12

Safety data sheet

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

Printing date 16.03.2024

Version number 22 (replaces version 21)

Revision: 16.03.2024

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

· 1.1 Product identifier	
 Trade name 1.2 Relevant identified uses of the substance or mixture 	Konudur 170 BT - Komponente A
and uses advised against · Application of the substance	No further relevant information available.
/ the mixture	Epoxy resin
• 1.3 Details of the supplier of t	he safety data sheet
• 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
1.4 Emergency telephone	
number:	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.
STOT RE 1	H372 Causes damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.

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 GB CLP regulation.

· Hazard pictograms



(Contd. on page 2)

GB



Page 2/12

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

Printing date 16.03.2024

Version number 22 (replaces version 21)

Revision: 16.03.2024

Trade name Konudur 170 BT - Komponente A

		(Contd. of page 1)
· Signal word	Danger	
· Hazard-determining		
components of labelling:	epoxide derivat	es
	crystalline silica	
		of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]
		-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)
		,2'-[methylenebis(2,1-phenyleneoxymethylene)]
	dioxirane	usta of hoveno 1.6 dial with 2 (ablaramathyl) ovirana
	(1:2)	icts of hexane-1,6-diol with 2-(chloromethyl)oxirane
· Hazard statements	H315 Causes s	kin irritation.
	H319 Causes s	erious eye irritation.
		se an allergic skin reaction.
		lamage to the lung through prolonged or repeated
	H411 Toxic to a	aquatic life with long lasting effects.
· Precautionary statements	P260	Do not breathe dust/fume/gas/mist/vapours/
		spray.
	P273	Avoid release to the environment.
	P280	Wear protective gloves / eye protection / face protection.
	P305+P351+P3	338 IF IN EYES: Rinse cautiously with water for
		several minutes. Remove contact lenses, if
		present and easy to do. Continue rinsing.
	P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
	P337+P313	If eye irritation persists: Get medical advice/
		attention.
Additional information:	EUH205 Conta	ins epoxy constituents. May produce an allergic
	reactio	
		ng! Hazardous respirable droplets may be formed
· 2.3 Other hazards	when	sprayed. Do not breathe spray or mist.
· 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.

CAS: 1675-54-3 epoxide derivates	30-60%
EINECS: 216-823-5 Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H31 Skin Sens. 1, H317, EUH205	



Page 3/12

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

Printing date 16.03.2024

Version number 22 (replaces version 21)

Revision: 16.03.2024

Trade name Konudur 170 BT - Komponente A

	(C	ontd. of page 2)
CAS: 14808-60-7	crystalline silica	30-60%
	STOT RE 1, H372	
CAS: 9003-36-5 EC number: 701-263-0	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	
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	<i>≥</i> 2.5-<10%
CAS: 13463-67-7 EINECS: 236-675-5	titanium dioxide Carc. 2, H351	≥1-<1.5%
· Additional information		ection 16.

SECTION 4: First aid measures

• 4.1 Description of first aid me	easures
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 persist, consult a doctor.
 4.2 Most important symptoms and effects, both acute and 	5
delayed	Advice for the doctor: Elementary aid, decontamination,

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

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

symptomatic treatment.

- 5.2 Special hazards arising
- from the substance or mixture

No further relevant information available.

(Contd. on page 4)

GB



Page 4/12

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

Printing date 16.03.2024

Version number 22 (replaces version 21)

Revision: 16.03.2024

(Contd. of page 3)

Trade name Konudur 170 BT - Komponente A

- 5.3 Advice for firefighters
 Protective equipment:
- No special measures required.

SECTION 6: Accidental release measures

 6.1 Personal precautions, protective equipment and 	
emergency procedures 6.2 Environmental	Wear protective clothing.
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).
	Ensure adequate ventilation.
• 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.	
Only use in well-ventilated areas (e.g. open construction, outdoo 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 of 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.	r h g e
Information about protection	
against explosions and fires: Ensure sufficient air exchange and/or extraction in the working areas. Take precautionary measures to avoid electrostatio discharges.	
· 7.2 Conditions for safe storage, including any incompatibilities	
· Storage · Requirements to be met by	
storerooms and containers: No special requirements.	
storage conditions: Keep container tightly closed in a well-ventilated place.	3

(Contd. on page 5)

- GB



Page 5/12

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

6.1C

Printing date 16.03.2024

Version number 22 (replaces version 21)

Revision: 16.03.2024

(Contd. of page 4)

Trade name Konudur 170 BT - Komponente A

Storage class

SECTION 8: Exposure c	ontrols/personal protection
8.1 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.
· Additional information:	The lists that were valid during the compilation were used as basis.
	No further data; see section 7. es, such as 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.
· Breathing equipment:	If workplace limit values cannot be complied with by ventilation 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 protection	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: $\geq 0.40 \text{ mm}$ (Contd. on page 6)

⁻ GB



Page 6/12

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

Printing date 16.03.2024

Version number 22 (replaces version 21)

Revision: 16.03.2024

Trade name Konudur 170 BT - Komponente A

	(Contd. of page
	Penetration time: \geq 480 min
	Butyl rubber:
	Material thickness: \geq 0.5 mm
	Penetration time: > 480 min
· Eye/face 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 lower leg area should be protected by protective trousers.

SECTION 9: Physical and chemical properties

• 9.1 Information on basic physical and chen	nical properties
· General Information · Colour:	Whitish
· Smell:	Characteristic
· Melting point/freezing point:	Not determined
· Boiling point or initial boiling point and	
boiling range	>200 °C (CAS: 1675-54-3 bis[4-(2,3-
20mg rungo	epoxypropoxy)phenyl]propane)
· Flash point:	61 °C
Auto-ignition temperature:	460 °C (CAS: 9003-36-5 2,2'-[methylenebis(p-
3 1 1 1	phenyleneoxymethylene)]bisoxirane polymers
	and homologues, molecular weight < 700)
· pH	Not determined.
· Viscosity:	
· Kinematic viscosity	Not determined.
dynamic:	Not determined.
[·] Solubility	
· Water:	Not miscible or difficult to mix
 Steam pressure at 1732 °C: 	13.5 hPa (CAS: 14808-60-7 Quartz (SiO2))
 Density and/or relative density 	
· Density at 20 °C	1.45 g/cm³
· 9.2 Other information	
· Appearance:	
· Form:	Pasty
 Important information on protection of heat 	lth
and environment, and on safety.	
Self-inflammability:	Product is not selfigniting.
• Explosive properties:	Product is not explosive.
	(Contd. on page 7)



Page 7/12

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

Printing date 16.03.2024

Version number 22 (replaces version 21)

Revision: 16.03.2024

Trade name Konudur 170 BT - Komponente A

		(Contd. of page
Information with regard to physical haz	ard	
classes		
Explosives	Void	
Flammable gases	Void	
Aerosols	Void	
Oxidising gases	Void	
Gases under pressure	Void	
Flammable liquids	Void	
Flammable solids	Void	
Self-reactive substances and mixtures	Void	
Pyrophoric liquids	Void	
Pyrophoric solids	Void	
Self-heating substances and mixtures	Void	
Substances and mixtures, which emit		
flammable gases in contact with water	Void	
Oxidising liquids	Void	
Oxidising solids	Void	
Organic peroxides	Void	
Corrosive to metals	Void	
Desensitised explosives	Void	

SECTION 10: Stability and reactivity

 10.1 Reactivity 10.2 Chemical stability Thermal decomposition / 	No further relevant information available.
conditions to be avoided: 10.3 Possibility of hazardous	No decomposition if used according to specifications.
reactions	No dangerous reactions known
 10.4 Conditions to avoid 	No further relevant information available.
 10.5 Incompatible materials: 10.6 Hazardous 	No further relevant information available.
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 Based on available data, the classification criteria are not met.

• Acute toxicity

· LD/LC50 values that are relevant for classification:

CAS: 1675-54-3 epoxide derivates

23000 mg/kg (rabbit) Dermal LD50

(Contd. on page 8)

GB



Page 8/12

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

Printing date 16.03.2024

Version number 22 (replaces version 21)

Revision: 16.03.2024

Trade name Konudur 170 BT - Komponente A

CAS: 900	and	(Contd. of page 7) action mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane 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	anium dioxide		
Oral	LD50	>5000 mg/kg (rat)		
Dermal	LD50	>10000 mg/kg (rabbit)		
Inhalative	LC50/4 h	>6.8 mg/l (rat)		
 Respirato sensitisat Germ cell Carcinogo Reproduct STOT-sin STOT-rep Aspiration 	ry or skin tion I mutagen enicity ctive toxic gle expos eated exp n hazard	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.ityBased on available data, the classification criteria are not met.ureBased on available data, the classification criteria are not met.		
· Endocrin	e disruptii	ng properties		
CAS: 128-	-37-0 2,6-1	Di-tert-butyl-p-cresol List II		

SECTION 12: Ecological information

Aquatic to	oxicity:	
CAS: 1675	5-54-3 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	3-36-5 Reaction mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane and 2.2'	
	and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane and 2,2' [methylenebis(2,1-phenyleneoxymethylene)]dioxirane	
CAS: 9003 LC50/96h EC50/96h	and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane and 2,2' [methylenebis(2,1-phenyleneoxymethylene)]dioxirane >100 mg/l (Daphnia magna)	

GB



Page 9/12

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

Printing date 16.03.2024

Version number 22 (replaces version 21)

Revision: 16.03.2024

Trade name Konudur 170 BT - Komponente A

	(Contd. of page 8)
12.5 Results of PBT and vF	PvB assessment
PBT:	Not applicable.
vPvB:	Not applicable.
12.6 Endocrine disrupting	
properties	For information on endocrine disrupting properties see section 11.
12.7 Other adverse effects	
Remark:	Toxic for fish
Additional ecological infor	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 or
	sewage system.
	Danger to drinking water if even small quantities leak into soil.

SECTION 13: Disposal considerations

· 13.1 Waste treatment method	's
· Recommendation	Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
· Waste disposal key number:	55903 Bez.: Harzrückstände, nicht ausgehärtet Entsorgungshinweise: Sonderabfallverbrennung
 Uncleaned packagings: Recommendation: 	Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

<i>14.1 UN number or ID number ADR, IMDG, IATA</i>	UN3082
14.2 UN proper shipping name	
ADR, IATA	ENVIRONMENTALLY HAZARDOU
	SUBSTANCE, LIQUID, N.O.S. (epoxide derivates)
IMDG	ENVIRONMENTALLY HAZARDOU
	SUBSTANCE, LIQUID, N.O.S. (epoxide derivates
	MARINE POLLUTANT
14.3 Transport hazard class(es)	
ADR	
Class	9 (M6) Miscellaneous dangerous substances an
	articles.
Label	9



Page 10/12

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

Printing date 16.03.2024

Version number 22 (replaces version 21)

Revision: 16.03.2024

Trade name Konudur 170 BT - Komponente A

	(Contd. of page
· IMDG, IATA · Class	9 Miscellaneous dangerous substances an articles.
· Label	9
· 14.4 Packing group · ADR, IMDG, IATA	<i>III</i>
· 14.5 Environmental hazards: · Marine pollutant:	Yes Symbol (fish and tree)
· Special marking (ADR): · Special marking (IATA):	Symbol (fish and tree) Symbol (fish and tree)
[.] 14.6 Special precautions for user	Warning: Miscellaneous dangerous substances an articles.
· Kemler Number: · EMS Number: · Stowage Category	90 F-A,S-F A
• 14.7 Maritime transport in bulk accor IMO instruments	ding to Not applicable.
Transport/Additional information:	
· ADR · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 100 ml
 Transport category Tunnel restriction code 	3 (-)
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 100 ml
· UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOU SUBSTANCE, LIQUID, N.O.S. (EPOXID

(Contd. on page 11)



Page 11/12

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

Printing date 16.03.2024

COTION 45

Version number 22 (replaces version 21)

Revision: 16.03.2024

Trade name Konudur 170 BT - Komponente A

(Contd. of page 10)

GB

SECTION 15: Regulatory	momation
 15.1 Safety, health and enviro mixture Poisons Act 	onmental regulations/legislation specific for the substance or
Regulated explosives precurs	sors
None of the ingredients is listed	
· Regulated poisons	
None of the ingredients is listed	
· Reportable explosives precu	rsors
None of the ingredients is listed	
· Reportable poisons	
None of the ingredients is listed	
 Directive 2012/18/EU Qualifying quantity (tonnes) for the application of lower- tier requirements Qualifying quantity (tonnes) for the application of upper- tier requirements 15.2 Chemical safety 	200 t 500 t
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.

· Relevant phrases	H315 H317 H319 H351 H372 H411 H412 EUH205	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Suspected of causing cancer. Causes damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects. 5 Contains epoxy constituents. May produce an allergic reaction.
· Department issuing data		
specification sheet:	Environ	ment protection department.
 Abbreviations and acronyma 	dangerei Transport ICAO: Inte ADR: Acc	,
		(Contd. on page 12)



Page 12/12

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

Printing date 16.03.2024

Version number 22 (replaces version 21)

Revision: 16.03.2024

Trade name Konudur 170 BT - Komponente A

	(Contd. of page 11) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals 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
• * Data compared to the	Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Skin Sens. 1: Skin sensitisation – Category 1 Carc. 2: Carcinogenicity – Category 2 STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3