

Page 1/12

Safety data sheet according to UK REACH

Printing date 11.12.2024 Version number 34 (replaces version 33) Revision: 11.12.2024

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

· 1.1 Product identifier

· Trade name Konudur 170 BT - Komponente A

· 1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

· Application of the substance

/ the mixture Epoxy resin

· 1.3 Details of the supplier of the 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

H315 Causes skin irritation. Skin Irrit. 2

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







GHS07 GHS08 GHS09

(Contd. on page 2)



Page 2/12

Safety data sheet according to UK REACH

Printing date 11.12.2024 Version number 34 (replaces version 33) Revision: 11.12.2024

Trade name Konudur 170 BT - Komponente A

(Contd. of page 1)

· Signal word

Danger

Hazard-determining

components of labelling:

epoxide derivates crystalline silica

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

Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane

(1:2)

· Hazard statements H315 Causes skin irritation.

H319 Causes serious eye irritation. H317 May cause an allergic skin reaction.

H372 Causes damage to the lung through prolonged or repeated

exposure. Route of exposure: Inhalation. H411 Toxic to aquatic life with long lasting effects.

· Precautionary statements P260

Do not breathe dust/fume/gas/mist/vapours/

spray.

P261 Avoid breathing dust/fume/gas/mist/vapours/

spray.

P273 Avoid release to the environment.

P280 Wear protective gloves / eye protection / face

protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for

several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P332+P313 If skin irritation occurs: Get medical advice/

attention.

· Additional information: EUH205 Contains epoxy constituents. May produce an allergic

reaction.

EUH211 Warning! Hazardous respirable droplets may be formed

when sprayed. Do not breathe spray or mist.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

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 epoxide derivates
EINECS: 216-823-5 Aquatic Chronic 2

epoxide derivates 30-60% Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319;

Skin Sens. 1, H317, EUH205

Specific concentration limits: Skin Irrit. 2; H315: $C \ge 5$ % Eye Irrit. 2; H319: $C \ge 5$ %

(Contd. on page 3)



Page 3/12

Safety data sheet according to UK REACH

Printing date 11.12.2024 Version number 34 (replaces version 33) Revision: 11.12.2024

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	≥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	≥2.5-<10%
CAS: 13463-67-7 EINECS: 236-675-5	Titanium Dioxide Carc. 2, H351	≥1-<1.5%
· Additional information	For the wording of the listed hazard phrases refer to se	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.

· 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

delayed Advice for the doctor: Elementary aid, decontamination,

symptomatic treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

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

• 5.2 Special hazards arising from the substance or

mixture No further relevant information available.

(Contd. on page 4)



Page 4/12

Safety data sheet according to UK REACH

Printing date 11.12.2024 Version number 34 (replaces version 33) Revision: 11.12.2024

Trade name Konudur 170 BT - Komponente A

(Contd. of page 3)

· 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 precautions:

Wear protective clothing.

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.

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.

· Information about protection

against explosions and fires: 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

· Storage

· Requirements to be met by

storerooms and containers: No special requirements.

· Further information about

Keep container tightly closed in a well-ventilated place. storage conditions:

(Contd. on page 5)



Page 5/12

Safety data sheet according to UK REACH

Printing date 11.12.2024 Version number 34 (replaces version 33) Revision: 11.12.2024

Trade name Konudur 170 BT - Komponente A

(Contd. of page 4)

· Storage class

6.1C

SECTION 8: Exposure controls/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.

8.2 Exposure controls
Appropriate engineering

controls No further data; see section 7.

· Individual protection measures, 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: ≥ 0.40 mm

(Contd. on page 6)



Page 6/12

Safety data sheet according to UK REACH

Printing date 11.12.2024 Version number 34 (replaces version 33) Revision: 11.12.2024

Trade name Konudur 170 BT - Komponente A

(Contd. of page 5)

Penetration time: ≥ 480 min

Butyl rubber:

Material thickness: ≥ 0.5 mm Penetration time: ≥ 480 min 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.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Eye/face protection

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-

epoxypropoxy)phenyl]propane)

· Flash point: 61 °C

• Auto-ignition temperature: 460 °C (CAS: 9003-36-5 2,2'-[methylenebis(p-

phenyleneoxymethylene)]bisoxirane polymers and homologues, molecular weight < 700)

Not determined.

· **pH** Not det

Viscosity:

Kinematic viscositydynamic:Not determined.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 health

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 UK REACH

Printing date 11.12.2024 Version number 34 (replaces version 33) Revision: 11.12.2024

Trade name Konudur 170 BT - Komponente A

(Contd. of page 6)

· Information with regard to physical haza classes	ard
· 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 No further relevant information available.

· 10.2 Chemical stability · Thermal decomposition /

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

· 10.3 Possibility of hazardous

reactions No dangerous reactions known

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

· 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.

· LD/LC50 values that are relevant for classification:

CAS: 1675-54-3 epoxide derivates

Dermal LD50 23000 mg/kg (rabbit)

(Contd. on page 8)



Page 8/12

Safety data sheet according to UK REACH

Printing date 11.12.2024 Version number 34 (replaces version 33) Revision: 11.12.2024

Trade name Konudur 170 BT - Komponente A

(Contd. of page 7)

CAS: 900	and	action mass of 2,2-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane di 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 Ti	tanium Dioxide
Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>10000 mg/kg (rabbit)
Inhalative	LC50/4 h	>6.8 mg/l (rat)

Primary irritant effect:

Skin corrosion/irritation
 Serious eye damage/irritation
 Causes skin irritation.
 Causes serious eye irritation.

· Respiratory or skin

sensitisation May cause an allergic skin reaction.

CAS, 0002 26 5 Boostion mass of 2.21 [mothylanchia/4.4 nhanylanchy

Germ cell mutagenicity
 Carcinogenicity
 Reproductive toxicity
 STOT-single exposure
 STOT-repeated exposure
 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.
 Causes damage to the lung through prolonged or repeated

exposure. Route of exposure: Inhalation.

• **Aspiration hazard** Based on available data, the classification criteria are not met.

· 11.2 Information on other hazards

· Endocrine disrupting properties

CAS: 128-37-0 2,6-Di-tert-butyl-p-cresol

List II

SECTION 12: Ecological information

· 12.1 Toxicity

. /	Aqι	ıatic	toxi	city:	
	- 1				

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) EC50/96h >100 mg/l (Leucidus idus)

· 12.2 Persistence and

degradability No further relevant information available.

· 12.3 Bioaccumulative

potential No further relevant information available.

(Contd. on page 9)



Page 9/12

Safety data sheet according to UK REACH

Printing date 11.12.2024 Version number 34 (replaces version 33) Revision: 11.12.2024

Trade name Konudur 170 BT - Komponente A

(Contd. of page 8)

· 12.4 Mobility in soil No further relevant information available.

· 12.5 Results of PBT and vPvB assessment · PBT: Not applicable. · vPvB: Not applicable.

· 12.6 Endocrine disrupting

For information on endocrine disrupting properties see section 11. properties

12.7 Other adverse effects

Toxic for fish · Remark:

· Additional ecological information:

· General notes: Toxic for aquatic organisms

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

· 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:

Empty contaminated packagings thoroughly. They can be recycled · Recommendation:

after thorough and proper cleaning.

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 derivates)
· IMDG	ENVIRONMENTALLY HAZARDOÚ
	SUBSTANCE, LIQUID, N.O.S. (epoxide derivates
	MARINE POLLUTANT
· 14.3 Transport hazard class(es)	
· ADR	
· Class	9 (M6) Miscellaneous dangerous substances an
	articlés.
· Label	9



Page 10/12

Safety data sheet according to UK REACH

Printing date 11.12.2024 Version number 34 (replaces version 33) Revision: 11.12.2024

Trade name Konudur 170 BT - Komponente A

	(Contd. of page
· IMDG, IATA · Class	9 Miscellaneous dangerous substances an
Label	articles.
14.4 Packing group ADR, IMDG, IATA	III
· 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 ar articles.
Kemler Number:	90
EMS Number:	F-A,S-F
Stowage Category	A
14.7 Maritime transport in bulk accordi IMO instruments	ng to Not applicable.
Transport/Additional information:	
· ADR · Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
Excepted quantities (EQ)	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 100 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: 100 ml
UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOU SUBSTANCE, LIQUID, N.O.S. (EPOXID DERIVATES), 9, III



Page 11/12

Safety data sheet according to UK REACH

Printing date 11.12.2024 Version number 34 (replaces version 33) Revision: 11.12.2024

Trade name Konudur 170 BT - Komponente A

(Contd. of page 10)

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Poisons Act
- Regulated explosives precursors

None of the ingredients is listed.

· Regulated poisons

None of the ingredients is listed.

· Reportable explosives precursors

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 200 t

Qualifying quantity (tonnes) for the application of upper-

tier requirements 500 t

· 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.

· Relevant phrases H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H351 Suspected of causing cancer.

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.

EUH205 Contains epoxy constituents. May produce an allergic

reaction.

Department issuing data

specification sheet: 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)

(Contd. on page 12)



Page 12/12

Safety data sheet according to UK REACH

Printing date 11.12.2024

Version number 34 (replaces version 33)

Trade name Konudur 170 BT - Komponente A

(Contd. of page 11)

Revision: 11.12.2024

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 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

- GB

^{*} Data compared to the previous version altered.