

Page 1/12

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

Printing date 16.03.2024 Version number 18 (replaces version 17) Revision: 16.03.2024

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

· 1.1 Product identifier

· Trade name Konudur 170 TR-NA - Komponente B

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

Hardening agent/ Curing agent

· 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:

1.4 Emergency telephone

number: Tel.: +49 / (0)700 24112112 (MCR)

Tel.: +1 872 5888271 (MCR)

msds@mc-bauchemie.de

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

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

Acute Tox. 4 H302 Harmful if swallowed.

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.
Skin Sens. 1 H317 May cause an allergic skin reaction.

Aquatic Chronic 3 H412 Harmful 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)



Page 2/12

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

Revision: 16.03.2024 Printing date 16.03.2024 Version number 18 (replaces version 17)

Trade name Konudur 170 TR-NA - Komponente B

(Contd. of page 1)

· Signal word

Danger

· Hazard-determining

components of labelling:

Isophorone diamine Polyoxypropylene triamine Polyoxypropylenediamine polymer amine terminated

Hydrocarbons, C9-unsaturated, polymerised 2,4,6-Tris-(1-Phenyl-Ethyl) carbolic acid

· Hazard statements

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

· Precautionary statements P260 Do not breathe dusts or mists.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all

contaminated clothing. Rinse skin with water [or

shower].

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

several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P362+P364 Take off contaminated clothing and wash it

before reuse.

· 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: 2855-13-2	Isophorone diamine	≥10-<25%
EINECS: 220-666-8 Reg.nr.: 01-2119514687-32	Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412	
CAS: 39423-51-3	Polyoxypropylene triamine Eye Dam. 1, H318; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Acute Tox. 4, H312	≥10-<25%
CAS: 9046-10-0 Reg.nr.: 01-2119557899-12	Polyoxypropylenediamine Skin Corr. 1B, H314; Aquatic Chronic 3, H412	≥10-<25%
EC number: 949-140-2	polymer amine terminated Eye Dam. 1, H318; Skin Irrit. 2, H315; Skin Sens. 1B, H317	≥3-<10%

(Contd. on page 3)



Page 3/12

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

Printing date 16.03.2024 Version number 18 (replaces version 17) Revision: 16.03.2024

Trade name Konudur 170 TR-NA - Komponente B

		(C	ontd. of page 2)
	CAS: 71302-83-5	Hydrocarbons, C9-unsaturated, polymerised	≥2.5-<5%
	EC number: 701-299-7	Asp. Tox. 1, H304; Skin Sens. 1A, H317; Aquatic Chronic 3, H412	
	CAS: 61788-44-1	2,4,6-Tris-(1-Phenyl-Ethyl) carbolic acid	≥0.25-<1%
	EINECS: 262-975-0	Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin Sens. 1, H317	
Ī	· 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.

· 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 equipment. Keep unprotected persons away.

precautions: No special measures required.

(Contd. on page 4)



Page 4/12

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

Printing date 16.03.2024 Version number 18 (replaces version 17) Revision: 16.03.2024

Trade name Konudur 170 TR-NA - Komponente B

(Contd. of page 3)

· 6.3 Methods and material for

containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders,

universal binders, sawdust). Use neutralising agent.

Dispose of contaminated material as waste according to item 13.

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, 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 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.

resins. Open and nandle contain

· 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

storage conditions: None. 8A

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.

(Contd. on page 5)





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

Printing date 16.03.2024 Version number 18 (replaces version 17) Revision: 16.03.2024

Trade name Konudur 170 TR-NA - Komponente B

		(C	Contd. of pa
DNELS	;		
CAS: 2	2855-13-2	Isophorone diamine	
Oral	DNEL	0.526 mg/kg bw/Tag (ArL)	
Inhalat	ive DNEL	20.1 mg/m³ (ArL)	
CAS: 3	39423-51-3	Polyoxypropylene triamine	
Inhalat	ive DNEL	14 mg/m³ (ArL)	
CAS: 9	0046-10-0	Polyoxypropylenediamine	
Oral	DNEL	0.04 mg/kg bw/Tag (ArL)	
Derma	I DNEL	2.5 mg/kg bw/day (ArL)	
PNECS	6		
CAS: 2	2855-13-2	Isophorone diamine	
PNEC	0.006 mg/	/I (Mew)	
	0.06 mg/l	(Freshwater)	
PNEC	0.578 mg/	/kg dwt (Sediment)	
	5.784 mg/	/kg dwt (Fresh water sediment)	
CAS: 3	39423-51-3	3 Polyoxypropylene triamine	
PNEC	10 mg/l (S	Sewage Treatment Plant)	
	0.00044 n	mg/l (Mew)	
		g/l (Freshwater)	
PNEC	0.002 mg/	/kg dwt (Bod)	
	0.002 mg/	/kg dwt (Sediment)	
	0.02 mg/k	kg dwt (Fresh water sediment)	
CAS: 9	0046-10-0	Polyoxypropylenediamine	
PNEC	7.5 mg/l (S	Sewage Treatment Plant)	
	0.015 mg/	/l (Fresh water)	
PNEC	0.0176 mg	g/kg dwt (Bod)	
	0.125 mg/	/kg dwt (Sediment)	
	0.132 mg/	/kg dwt (Fresh water sediment)	

· 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.

 \cdot 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

(Contd. on page 6)



Page 6/12

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

Printing date 16.03.2024 Version number 18 (replaces version 17) Revision: 16.03.2024

Trade name Konudur 170 TR-NA - Komponente B

(Contd. of page 5)

expected, use self-contained breathing apparatus. Observe wearing time limits according to §9 (3) GefStoffV in conjunction with BCR 100

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 Penetration time: ≥ 480 min

Butyl rubber:

Material thickness: ≥ 0.5 mm Penetration time: ≥ 480 min Tight-fitting safety goggles.

· Eye/face protection

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

· Colour: Whitish · Smell: Characteristic

(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 18 (replaces version 17) Revision: 16.03.2024

Trade name Konudur 170 TR-NA - Komponente B

(Contd. of page 6)

· Melting point/freezing point: Not determined

· Boiling point or initial boiling point and

boiling range Not determined >150 °C

· **pH** Not determined.

Viscosity:

Kinematic viscositydynamic:Not determined.Not determined.

· Solubility

• Water: Not miscible or difficult to mix

· Steam pressure: Not determined.

Density and/or relative density

Density at 20 °C 1.2 g/cm³

· 9.2 Other information

· Appearance:

· Form: Fluid

· Important information on protection of health

and environment, and on safety.

Self-inflammability: Product is not selfigniting.
 Explosive properties: Product is not explosive.

· Information with regard to physical hazard

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
 Oxidising liquids
 Oxidising solids
 Organic peroxides
 Corrosive to metals
 Desensitised explosives

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

(Contd. on page 8)



Page 8/12

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

Printing date 16.03.2024 Version number 18 (replaces version 17) Revision: 16.03.2024

Trade name Konudur 170 TR-NA - Komponente B

(Contd. of page 7)

· 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 Harmful if swallowed.

· LD/LC5	0 values	that are relevant for classification:
CAS: 28	855-13-2	Isophorone diamine
Oral	LD50	1030 mg/kg (ATE)
		1030 mg/kg (rat)
	NOAEL	250 mg/kg (rat)
Dermal	LD50	1840 mg/kg (rabbit)
		>2000 mg/kg (rat)
CAS: 39	9423-51-	3 Polyoxypropylene triamine
Oral	LD50	550 mg/kg (rat)
Dermal	LD50	>1000 mg/kg (rat)
CAS: 90	046-10-0	Polyoxypropylenediamine
Oral	LD50	2855 mg/kg (Rat)
Dermal	LD50	2980 mg/kg (Kan)

Skin corrosion/irritation Causes severe skin burns and eye damage.

· Serious eye damage/irritation Causes serious eye damage.

Respiratory or skin

sensitisation May cause an allergic skin reaction.

Germ cell mutagenicity
 Carcinogenicity
 Reproductive toxicity
 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.
 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.
 Based on available data, the classification criteria are not met.

11.2 Information on other hazards

ſ	· Endocrine disrup	oting properties	
	CAS: 61788-44-1	2,4,6-Tris-(1-Phenyl-Ethyl) carbolic acid	List II
	CAS: 128-37-0	2,6-Di-tert-butyl-p-cresol	List II

(Contd. on page 9)

G



Page 9/12

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

Printing date 16.03.2024 Version number 18 (replaces version 17) Revision: 16.03.2024

Trade name Konudur 170 TR-NA - Komponente B

(Contd. of page 8)

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

CAS: 2855-13-2 Isophorone diamine

LC50/96h 110 mg/l (Leucidus idus)

EC50 1120 mg/l (Pseudomonas putida)

EC50/48h 23 mg/l (Daphnia magna)

NOEC 1.5 mg/l (Desmodesmus subspicatus)

3 mg/l (Daphnia magna)

ErC50/72h >50 mg/l (Desmodesmus subspicatus)

CAS: 39423-51-3 Polyoxypropylene triamine

LC50/96h >100 mg/l (Oncorhynchus mykiss)

EC50/48h | 13 mg/l (Daphnia magna)

ErC50/72h 4.4 mg/l (algae)

· 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.

· 12.6 Endocrine disrupting

properties For information on endocrine disrupting properties see section 11.

· 12.7 Other adverse effects

· Additional ecological information:

• General notes: Must not reach sewage water or drainage ditch undiluted or

unneutralised.

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: 55352

Bez.: aliphatische Amine Entsorgungshinweise: Sonderabfallverbrennung

(Contd. on page 10)



Page 10/12

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

Printing date 16.03.2024 Version number 18 (replaces version 17) Revision: 16.03.2024

Trade name Konudur 170 TR-NA - Komponente B

(Contd. of page 9)

· Uncleaned packagings:

• Recommendation: Disposal must be made according to official regulations.

UN2735
AMINES, LIQUID, CORROSIVE, N.O (ISOPHORONEDIAMINE, Polyoxypropyle triamine)
8 (C7) Corrosive substances. 8
8 Corrosive substances. 8
II
No
Warning: Corrosive substances. 80
F-A,S-B (SGG18) Alkalis A
SG35 Stow "separated from" SGG1-acids
ing to Not applicable.
1L
Code: E2 Maximum net quantity per inner packaging: 30 m Maximum net quantity per outer packaging: 500 m
2

(Contd. on page 11)



Page 11/12

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

Printing date 16.03.2024 Version number 18 (replaces version 17) Revision: 16.03.2024

Trade name Konudur 170 TR-NA - Komponente B

(Contd. of page 10)

·IMDG

· Limited quantities (LQ) 1L

· Excepted quantities (EQ) Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

· UN "Model Regulation": UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S.

(ISOPHORONEDIAMINE, POLYOXYPROPYLENE

TRIAMINE), 8, II

SECTION 15: Regulatory information

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

substance or mixture No further relevant information available.

· 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.

· 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 H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H318 Causes serious eye damage.

H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

· Department issuing data

specification sheet: Environment protection department.

(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 18 (replaces version 17) Revision: 16.03.2024

Trade name Konudur 170 TR-NA - Komponente B

(Contd. of page 11)

· 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

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)

DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4 Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Dam. 1: Serious eye damage/eye irritation - Category 1

Skin Sens. 1: Skin sensitisation - Category 1

Skin Sens. 1A: Skin sensitisation - Category 1A

Skin Sens. 1B: Skin sensitisation - Category 1B

Asp. Tox. 1: Aspiration hazard - 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

* * Data compared to the previous version altered.