

Page 1/11

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

Printing date 16.03.2024 Version number 21 Revision: 16.03.2024

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

· Product identifier

· Trade name Konudur 170 TR - Komponente B

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

· 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

2 Hazards identification

· Classification of the substance or mixture

Flam. Liq. 4 H227 Combustible liquid. Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 5 H313 May be harmful in contact with skin.

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 2 H411 Toxic to aquatic life with long lasting effects.

· Label elements

• GHS label elements The product is classified and labelled according to the Globally

Harmonised System (GHS).

· Hazard pictograms







GHS05 GHS07 GHS09

· **Signal word** Danger

· Hazard-determining

components of labelling: Isophorone diamine

Polyoxypropylene triamine

(Contd. on page 2)



Page 2/11

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

Printing date 16.03.2024 Version number 21 Revision: 16.03.2024

Trade name Konudur 170 TR - Komponente B

(Contd. of page 1)

Polyoxypropylenediamine

polymer amine terminated

Hydrocarbons, C9-unsaturated, polymerised

· Hazard statements Combustible liquid.

Harmful if swallowed.

May be harmful in contact with skin.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

Toxic to aquatic life with long lasting effects.

• Precautionary statements Do not breathe dusts or mists.

IF ON SKIN (or hair): Take off immediately all contaminated

clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

Immediately call a POISON CENTER/doctor.

Specific treatment (see on this label).

Take off contaminated clothing and wash it before reuse.

· Other hazards

· Results of PBT and vPvB assessment

· **PBT:** Not applicable. · **vPvB:** Not applicable.

3 Composition/information on ingredients

· Chemical characterisation: Mixtures

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

•	5 ,			
· Dangerous components:				
CAS: 2855-13-2	Isophorone diamine Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412	≥10-<25%		
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	Polyoxypropylenediamine Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 5, H303; Acute Tox. 5, H313; Aquatic Chronic 3, H412	≥10-<25%		
	polymer amine terminated Eye Dam. 1, H318; Skin Irrit. 2, H315; Skin Sens. 1B, H317	≥3-<10%		
CAS: 38640-62-9	Diisopropylnaphthalin-Isomere Aquatic Chronic 1, H410; Acute Tox. 5, H303; Acute Tox. 5, H313	<i>≥</i> 0.25-<2.5%		
CAS: 71302-83-5	Hydrocarbons, C9-unsaturated, polymerised Asp. Tox. 1, H304; Skin Sens. 1A, H317; Aquatic Chronic 3, H412	≥1-<1.5%		
CAS: 61788-44-1	2,4,6-Tris-(1-Phenyl-Ethyl) carbolic acid Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Acute 2, H401	≥0.25-<1%		
		Contd. on page 3		



Page 3/11

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

Printing date 16.03.2024 Version number 21 Revision: 16.03.2024

Trade name Konudur 170 TR - Komponente B

(Contd. of page 2)

• Additional information For the wording of the listed hazard phrases refer to section 16.

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.

· 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

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 Wear protective equipment. Keep unprotected persons away.

· Environmental precautions: No special measures required.

· 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.

• Reference to other sections See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

(Contd. on page 4)



Page 4/11

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

Revision: 16.03.2024 Printing date 16.03.2024 Version number 21

Trade name Konudur 170 TR - Komponente B

(Contd. of page 3)

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 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.

· 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.

· Conditions for safe storage, including any incompatibilities

· Storage

· Requirements to be met by

storerooms and containers: No special requirements.

· Further information about

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

· Storage class

8 Exposure controls/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.

· DNELs

CAS: 2855-13-2 Isophorone diamine

DNEL 0.526 mg/kg bw/Tag (ArL)

Inhalative DNEL 20.1 mg/m³ (ArL)

CAS: 39423-51-3 Polyoxypropylene triamine

Inhalative DNEL 14 mg/m³ (ArL)

(Contd. on page 5)



Page 5/11

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

Printing date 16.03.2024 Version number 21 Revision: 16.03.2024

Trade name Konudur 170 TR - Komponente B

					(Contd. of pag
CAS: 9	9046-10-0 F	Polyoxypropyle	enediamine		
Oral	DNEL	0.04 mg/kg bw/	/Tag (ArL)		
Derma	I DNEL	2.5 mg/kg bw/a	lay (ArL)		
PNECS	5				
CAS: 2	2855-13-2 I	sophorone dia	mine		
PNEC	0.006 mg/l	(Mew)			
	0.06 mg/l ((Freshwater)			
PNEC	0.578 mg/l	kg dwt (Sedimei	nt)		
	5.784 mg/l	kg dwt (Fresh w	vater sediment)		
CAS: 3	39423-51-3	Polyoxypropy	lene triamine		
PNEC	10 mg/l (S	ewage Treatme	ent Plant)		
	0.00044 m	ig/l (Mew)			
	0.0044 mg	// (Freshwater)			
PNEC	0.002 mg/l	kg dwt (Bod)			
	0.002 mg/l	kg dwt (Sedimei	nt)		
	0.02 mg/kg	g dwt (Fresh wa	nter sediment)		
CAS: 9046-10-0 Polyoxypropylenediamine					
PNEC	7.5 mg/l (S	Sewage Treatme	ent Plant)		
	0.015 mg/l	(Fresh water)			
PNEC	0.0176 mg	/kg dwt (Bod)			
	0.125 mg/l	kg dwt (Sedime	nt)		
	0.132 mg/l	kg dwt (Fresh w	ater sediment)		

· Additional information:

The lists that were valid during the compilation were used as basis.

- · Exposure controls
- 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.

• 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".

(Contd. on page 6)



Page 6/11

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

Printing date 16.03.2024 Version number 21 Revision: 16.03.2024

Trade name Konudur 170 TR - Komponente B

(Contd. of page 5)

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

• Eye protection: 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.

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Fluid
Colour: Whitish
Smell: Characteristic

pH-value: Not determined.

· Change in condition

Melting point/freezing point: Not determined

Initial boiling point and boiling range: 247 °C

· Flash point: 61 °C

· Self-inflammability: Product is not selfigniting.

(Contd. on page 7)



Page 7/11

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

Printing date 16.03.2024 Version number 21 Revision: 16.03.2024

Trade name Konudur 170 TR - Komponente B

(Contd. of page 6)

Explosive properties:	Product is not explosive.	
Steam pressure:	Not determined.	
Density at 20 °C	1.2 g/cm³	
Solubility in / Miscibility with Water:	Not miscible or difficult to mix	
Viscosity: dynamic: kinematic:	Not determined. Not determined.	

No further relevant information available.

10 Stability and reactivity

Reactivity No further relevant information available.

· Chemical stability

Thermal decomposition /

conditions to be avoided:

· Possibility of hazardous

reactions

· Conditions to avoid

· Incompatible materials:

· Hazardous decomposition products:

No dangerous reactions known

No further relevant information available.

No further relevant information available.

No dangerous decomposition products known

No decomposition if used according to specifications.

11 Toxicological information

- · Information on toxicological effects

Acute to	xicity	
LD/LC50	values that a	re relevant for classification:
CAS: 28	55-13-2 Isoph	orone 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: 39423-51-3 Polyoxypropylene triamine		
Oral	LD50	550 mg/kg (rat)
Dermal	LD50	>1000 mg/kg (rat)

(Contd. on page 8)



Page 8/11

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

Printing date 16.03.2024 Version number 21 Revision: 16.03.2024

Trade name Konudur 170 TR - Komponente B

(Conta.	UI	page	1

CAS: 9046-10-0 Polyoxypropylenediamine		
Oral	LD50	2855 mg/kg (Rat)
Dermal	LD50	2980 mg/kg (Kan)
CAS: 38640-62-9 Diisopropylnaphthalin-Isomere		
Oral	LD50	>4000 mg/kg (rat)
Dermal	LD50	>4000 mg/kg (rat)
Inhalative	LC50 OECD 403	>5.6 mg/l (rat)

· Primary irritant effect:

Skin corrosion/irritation Caustic effect on skin and mucous membranes.

· Serious eye damage/irritation Strong caustic effect.

· Respiratory or skin

sensitisation No sensitizing effect known.

· Additional toxicological

information:

The product shows the following dangers according to the

calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

Harmful

Corrosive Irritant

Swallowing will lead to a strong caustic effect on mouth and throat

and to the danger of perforation of esophagus and stomach.

12 Ecological information

· Toxicity

	· Aquatic toxicity:			
	CAS: 2855-13-2 Isophorone diamine			
	LC50/96h 110 mg/l (Leucidus idus)			
EC50 1120 mg/l (Pseudomonas putida)		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)			
	CAS: 38640-62-9 Diisopropylnaphthalin-Isomere			
	EC50/72h 0.15 mg/l (algae)			
	LC50/48h	1.7 mg/l (Daphnia magna)		
EC50/48h 0.16 mg/l (Daphnia magna)		0.16 mg/l (Daphnia magna)		

· Persistence and degradability No further relevant information available.

(Contd. on page 9)



Page 9/11

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

Printing date 16.03.2024 Version number 21 Revision: 16.03.2024

Trade name Konudur 170 TR - Komponente B

(Contd. of page 8)

· Behaviour in environmental systems:

Bioaccumulative potential
 Mobility in soil
 No further relevant information available.
 No further relevant information available.

· 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.

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

Other adverse effects No further relevant information available.

13 Disposal considerations

· 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

· Uncleaned packagings:

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

UN-Number ADR, IMDG, IATA	UN2735
UN proper shipping name	
ADR	AMINES, LIQUID, CORROSIVE, N.O. (ISOPHORONEDIAMINE Polyoxypropylenediamine), ENVIRONMENTAL HAZARDOUS
IMDG	AMINES, LIQUID, CORROSIVE, N.O. (ISOPHORONEDIAMINE Polyoxypropylenediamine), MARINE POLLUTANT
IATA	AMINES, LIQUID, CORROSIVE, N.O. (ISOPHORONEDIAMINE, Polyoxypropylenediamin
Transport hazard class(es)	
ADR	
Class	8 (C7) Corrosive substances.
Label	8

(Contd. on page 10)



Page 10/11

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

Printing date 16.03.2024 Version number 21 Revision: 16.03.2024

Trade name Konudur 170 TR - Komponente B

	(Contd. of page
IMDG, IATA	
Class	8 Corrosive substances.
Label	8
Packing group	
ADR, IMDG, IATA	II .
Environmental hazards:	Product contains environmentally hazardo substances: Polyoxypropylene triamine
Marine pollutant:	Yes
	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
Special precautions for user	Warning: Corrosive substances.
Kemler Number:	80
EMS Number:	F-A,S-B
Segregation groups	(SGG18) Alkalis
Stowage Category	Ä
Segregation Code	SG35 Stow "separated from" SGG1-acids
Transport in bulk according to Ann	
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
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
Transport category	2
Tunnel restriction code	E
IMDG	
Limited quantities (LQ)	1L
Excepted quantities (ÉQ)	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.
-	(ISOPHORONEDIAMINE
	POLYOXYPROPYLENEDIAMINE), 8,
	ENVIRONMENTALLY HAZARDOUS

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.

(Contd. on page 11)



Page 11/11

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

Printing date 16.03.2024 Version number 21 Revision: 16.03.2024

Trade name Konudur 170 TR - Komponente B

(Contd. of page 10)

· 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: Environment protection department.

· Contact:

· 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 Flam. Liq. 4: Flammable liquids - Category 4

Acute Tox. 4: Acute toxicity – Category 4 Acute Tox. 5: Acute toxicity – Category 5

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 Acute 2: Hazardous to the aquatic environment - acute aquatic hazard -

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic 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.