

Page 1/11

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

Printing date 26.05.2024 Version number 22 Revision: 08.05.2024

1 Identification of the hazardous chemical and of the supplier

· Product identifier

· Trade name Konudur 170 TR-NA - Komponente B

· Recommended use of the chemical and restrictions on

· Application of the substance

/ the mixture Epoxy resin

Hardening agent/ Curing agent

No further relevant information available.

· Details of the supplier of the safety data sheet

MC-Bauchemie Müller GmbH & Co. KG · Manufacturer/Supplier:

> 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 Hazard identification

· Classification of the substance or mixture

Acute Tox. 4 H302 Harmful if swallowed.

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

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

Aquatic Chronic 3 H412 Harmful 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

· Signal word Danger

Hazard-determining

components of labelling: Isophorone diamine

Polyoxypropylene triamine Polyoxypropylenediamine polymer amine terminated

Hydrocarbons, C9-unsaturated, polymerised

(Contd. on page 2)



Page 2/11

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

Printing date 26.05.2024 Version number 22 Revision: 08.05.2024

Trade name Konudur 170 TR-NA - Komponente B

(Contd. of page 1)

· **Hazard statements** H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

• **Precautionary statements** P260 Do not breathe dusts or mists.

P280 Wear protective gloves/protective clothing/eye

protection/face protection.

P303+P361+P353 IF ON SKIN (or hair): Remove/take off

immediately all contaminated clothing. Rinse

skin with water/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.

Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

· Other hazards

· Results of PBT and vPvB assessment

PBT: Not applicable.vPvB: Not applicable.

3 Composition and information of the ingredients of the hazardous chemical

· Chemical characterisation: Mixtures

Description: Mixture consisting of the following components.

P310

· Dangerous comp	ponents:	
CAS: 2855-13-2	Isophorone diamine	≥10-<25%
	Skin Corr. 1, 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	10-30%
	Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312	
CAS: 9046-10-0	Polyoxypropylenediamine	≥10-<25%
	Skin Corr. 1, H314; Eye Dam. 1, H318; Aquatic Chronic 3, H412	
	polymer amine terminated	≥3-<10%
	Eye Dam. 1, H318; Skin Irrit. 2, H315; Skin Sens. 1, H317	
CAS: 71302-83-5	Hydrocarbons, C9-unsaturated, polymerised	≥2.5-<5%
	Asp. Haz., H304; Skin Sens. 1, H317; Aquatic Chronic 3, H412	
CAS: 61788-44-1	2,4,6-Tris-(1-Phenyl-Ethyl) carbolic acid	≥0.25-<1%
	Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin Sens. 1, H317	
· Additional inforn	nation For the wording of the listed hazard phrases refer to se	ection 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.

(Contd. on page 3)



Page 3/11

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

Printing date 26.05.2024 Version number 22 Revision: 08.05.2024

Trade name Konudur 170 TR-NA - Komponente B

(Contd. of page 2)

· After inhalation Supply fresh air; seek medical advice if symptoms occur.

> If unconscious, place in recovery position and seek medical advice. 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

· After skin contact

· 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.

· 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.

See Section 13 for information on disposal.

7 Handling and storage

· Handling

· 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) (Contd. on page 4)



Page 4/11

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

Printing date 26.05.2024 Version number 22 Revision: 08.05.2024

Trade name Konudur 170 TR-NA - Komponente B

(Contd. of page 3)

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.

· 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

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.

		with childar values that have to be monitored at the workplace.
· DNELs		
CAS: 285	5-13-2 l	Isophorone diamine
Oral	DNEL	0.526 mg/kg bw/Tag (ArL)
Inhalative	DNEL	20.1 mg/m³ (ArL)
CAS: 394	23-51-3	Polyoxypropylene triamine
Inhalative	DNEL	14 mg/m³ (ArL)
CAS: 904	6-10-0 l	Polyoxypropylenediamine
Oral	DNEL	0.04 mg/kg bw/Tag (ArL)
Dermal	DNEL	2.5 mg/kg bw/day (ArL)
PNECs		
CAS: 285	5-13-2 l	Isophorone diamine

PNEC | 0.006 mg/l (Mew) 0.06 mg/l (Freshwater)

PNEC 0.578 mg/kg dwt (Sediment)

(Contd. on page 5)



Page 5/11

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

Printing date 26.05.2024 Version number 22 Revision: 08.05.2024

Trade name Konudur 170 TR-NA - Komponente B

(Contd. of page 4)

5.784 mg/kg dwt (Fresh water sediment)

CAS: 39423-51-3 Polyoxypropylene triamine

PNEC 10 mg/l (Sewage Treatment Plant)

0.00044 mg/l (Mew)

0.0044 mg/l (Freshwater)

PNEC 0.002 mg/kg dwt (Bod)

0.002 mg/kg dwt (Sediment)

0.02 mg/kg dwt (Fresh water sediment)

CAS: 9046-10-0 Polyoxypropylenediamine

PNEC 7.5 mg/l (Sewage Treatment Plant)

0.015 mg/l (Fresh water)

PNEC 0.0176 mg/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.

- 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". 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

(Contd. on page 6)



(Contd. of page 5)



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

Printing date 26.05.2024 Version number 22 Revision: 08.05.2024

Trade name Konudur 170 TR-NA - Komponente B

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 protection: Tight-fitting safety gogg Safety goggles.

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

· General Information

· Body protection:

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 Not determined

· Flash point: >150 °C

· Auto-ignition temperature Product is not selfigniting.

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

(Contd. on page 7)



Page 7/11

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

Printing date 26.05.2024 Version number 22 Revision: 08.05.2024

Trade name Konudur 170 TR-NA - Komponente B

(Contd. of page 6)

Viscosity:dynamic:kinematic:Not determined.Not determined.

· Other information

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 fulfiler relevant information available.

No decomposition if used according to specifications.

No dangerous reactions known

No further relevant information available. No further relevant information available.

No dangerous decomposition products known

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity

. 1	D/I CEA	volues	that are	rolovant	for	classification:
. L	<i>_D/L</i> し50	vaiues	tnat are	reievant	tor (ciassification:

Oral | LD50 | 1030 mg/kg (ATE)

NOAEL 250 mg/kg (rat)

Dermal LD50 1840 mg/kg (rabbi

.D50 | 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)

CAS: 9046-10-0 Polyoxypropylenediamine

 Oral
 LD50
 2855 mg/kg (Rat)

 Dermal
 LD50
 2980 mg/kg (Kan)

· Primary irritant effect:

· Skin corrosion or irritation

Caustic effect on skin and mucous membranes.

· Serious eye damage or eye

irritation

Strong caustic effect.

(Contd. on page 8)



Page 8/11

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

Printing date 26.05.2024 Version number 22 Revision: 08.05.2024

Trade name Konudur 170 TR-NA - Komponente B

(Contd. of page 7)

· Respiratory / skin sensitization

Additional toxicological

information:

No sensitizing effect known.

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	LUXICILV.

CAS: 2855-13-2 Iso	phorone 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)

- Persistence and degradability No further relevant information available.
- · 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.

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Page 9/11

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

Printing date 26.05.2024 Version number 22 Revision: 08.05.2024

Trade name Konudur 170 TR-NA - Komponente B

(Contd. of page 8)

13 Disposal information

· 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	
ADŘ, IMDG, IATA	AMINES, LIQUID, CORROSIVE, N.O.S (ISOPHORONEDIAMINE, Polyoxypropyleno triamine)
Transport hazard class(es)	
ADR	
Class	8 (C7) Corrosive substances.
Label	8
IMDG, IATA	
Class	8 Corrosive substances.
Label	8
Packing group	
ADR, IMDG, IATA	II
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Corrosive substances.
Kemler Number:	80
EMS Number:	F-A,S-B
Segregation groups	(SGG18) Alkalis
Stowage Category	A
Segregation Code	SG35 Stow "separated from" SGG1-acids
Transport in bulk according to Ann	ex II of
Marpol and the IBC Code	Not applicable.

(Contd. on page 10)



Page 10/11

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

Printing date 26.05.2024 Version number 22 Revision: 08.05.2024

Trade name Konudur 170 TR-NA - Komponente B

(Contd. of page 9)

· 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 (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

15 Regulatory information

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

· EHS reference list

CAS: 2855-13-2 Isophorone diamine

· Directive 2012/18/EU

· Named dangerous

substances - ANNEX I None of the ingredients is listed.

· 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

(Contd. on page 11)



Page 11/11

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

Revision: 08.05.2024 Printing date 26.05.2024 Version number 22

Trade name Konudur 170 TR-NA - Komponente B

(Contd. of page 10)

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 Acute Tox. 4: Acute toxicity - oral - Category 4 Skin Corr. 1: Skin corrosion or irritation - Category 1 Skin Irrit. 2: Skin corrosion or irritation – Category 2

Eye Dam. 1: Serious eye damage or eye irritation – Category 1 Skin Sens. 1: Skin sensitization – Category 1

Asp. Haz.: Aspiration hazard - Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - chronic hazard -

Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - chronic hazard -

Category 3

· * Data compared to the previous version altered.