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

Printing date 15.04.2025 Version number 40 Revision: 15.04.2025

1 Identification of the hazardous chemical and of the supplier

· Product identifier

· Trade name Konudur 170 TR - Komponente B

Recommended use of the chemical and restrictions on

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 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.

STOT RE 1 H372 Causes damage to the lung through prolonged or repeated exposure.

Route of exposure: Inhalation.

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 GHS08

· Signal word Danger

· Hazard-determining

components of labelling: Isophorone diamine

Quartz sand

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Polyoxypropylene triamine

Polyoxypropylenediamine

Hydrocarbons, C9-unsaturated, polymerised

Phenol, mono- and distyrolised

Polymer with amino-functional groups

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

H314 Causes severe skin burns and eye damage.

H317 May cause allergic skin reaction.

H372 Causes damage to the lung through prolonged or repeated

exposure. Route of exposure: Inhalation.

H412 Harmful to aquatic life with long lasting effects.

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

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

spray.

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.

P310 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.

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	- 1
CAS: 9046-10-0	Polyoxypropylenediamine	≥10-<25%
	Skin Corr. 1, H314; Eye Dam. 1, H318; Aquatic Chronic 3, H412	
CAS: 14808-60-7	Quartz sand	10-30%
	STOT RE 1, H372	
	Polymer with amino-functional groups	10-30%
	Eye Dam. 1, H318; Skin Irrit. 2, H315; Skin Sens. 1, H317	
CAS: 71302-83-5	Hydrocarbons, C9-unsaturated, polymerised	≥1-<2.5%
	Asp. Haz., H304; Skin Sens. 1, H317; Aquatic Chronic 3, H412	
	Phenol, mono- and distyrolised	≥1-<1.5%
	Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin Sens. 1, H317	
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• 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 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.

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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)

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

Storage class 6.1C

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:

CAS: 14808-60-7 Quartz sand

PEL (Malaysia) Long-term value: 0.1* mg/m³

*Pecahan ternafaskan

· DNELs

CAS: 2855-13-2 Isophorone diamine

Oral DNEL 0.526 mg/kg bw/Tag (ArL)

Inhalative DNEL 20.1 mg/m³ (ArL)

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Trade name Konudur 170 TR - Komponente B

		(Contd. of pa
	39423-51-3 Polyoxypropylene triamine	
	ive DNEL 14 mg/m³ (ArL)	
CAS: 9	9046-10-0 Polyoxypropylenediamine	
Oral	DNEL 0.04 mg/kg bw/Tag (ArL)	
Derma	I DNEL 2.5 mg/kg bw/day (ArL)	
·PNEC	5	
CAS: 2	2855-13-2 Isophorone diamine	
PNEC	0.006 mg/l (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 Polyoxypropylene triamine	
PNEC	C 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: 9	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

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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.

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

· Information on basic physical and chemical properties

· General Information

· Appearance:

· Eye protection:

· Body protection:

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

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Flash point:	61 °C	
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	
Viscosity:		
dynamic:	Not determined.	
kinematic:	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 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

CAS: 2	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)	
		1840 mg/kg (rabbit)	

Oral LD50 550 mg/kg (rat)

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Dermal	LD50	>1000 mg/kg (rat)	
CAS: 9	046-10-0	Polyoxypropylenediamine	
Oral	LD50	2855 mg/kg (Rat)	
		2885 mg/kg (rat)	
Dermal	LD50	2980 mg/kg (Kan)	
		2980 mg/kg (rabbit)	

· Primary irritant effect:

· Skin corrosion or irritation

Serious eye damage or eye

irritation

· Respiratory / skin sensitization

· Additional toxicological

information:

Caustic effect on skin and mucous membranes.

Strong caustic effect.

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 to		
	-13-2 Isophorone diamine	
LC50/96h	110 mg/l (fish)	
	110 mg/l (Leucidus idus)	
EC50	1120 mg/l (Pseudomonas putida)	
EC50/48h	23 mg/l (daphnia)	
	23 mg/l (Daphnia magna)	
NOEC	1.5 mg/l (Desmodesmus subspicatus)	
	3 mg/l (Daphnia magna)	
ErC50/72h	>50 mg/l (Desmodesmus subspicatus)	
	>50 mg/l (algae)	
CAS: 3942	3-51-3 Polyoxypropylene triamine	
LC50/96h	>100 mg/l (Oncorhynchus mykiss)	
EC50/48h	13 mg/l (Daphnia magna)	
ErC50/72h	4.4 mg/l (algae)	
CAS: 9046	-10-0 Polyoxypropylenediamine	
EC50/72h	15 mg/l (algae)	
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LC50/96h >15 mg/l (fish) EC50/48h 80 mg/l (daphnia)

Persistence and degradability No further relevant information available.

· Behaviour in environmental systems:

Bioaccumulative potential
 Mobility in soil
 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 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.

14 Transportation information

· UN-Number · ADR, IMDG, IATA UN2735

· UN proper shipping name

· ADR, IMDG, IATA AMINES, LIQUID, CORROSIVE, N.O.S.

(Polyoxypropylenediamine, ISOPHORONEDIAMINE)

· Transport hazard class(es)

· ADR

· Class 8 (C7) Corrosive substances.

·Label

· IMDG, IATA

· Class 8 Corrosive substances.

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Label	8
Packing group	
ADR, IMDG, IATA	III
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	Ä
Segregation Code	SG35 Stow "separated from" SGG1-acids
Transport/Additional information:	
ADR	
Limited quantities (LQ)	51
Excepted quantities (EQ)	Code: E1
Excepted quantities (EQ)	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per niner packaging: 30 mi Maximum net quantity per outer packaging: 1000 m
Transport category	3
Tunnel restriction code	Ë
	· -
IMDG Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
Excepted qualitities (EQ)	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per inner packaging: 30 mi Maximum net quantity per outer packaging: 1000 m
UN "Model Regulation":	UN 2735 AMINES, LIQUID, CORROSIVE, N.O.
	(POLYOXYPROPYLENEDIAMINI
	ISOPHORONEDIAMINE), 8, III

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.

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 Qualifying quantity (tonnes) for the application of lower-

tier requirements 200 t

 Qualifying quantity (tonnes) for the application of upper-

tier requirements 500 t

· 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 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

STOT RE 1: Specific target organ toxicity (repeated exposure) – 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.