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

Printing date 14.04.2025 Version number 44 Revision: 14.04.2025

1 Identification of the hazardous chemical and of the supplier

· Product identifier

· Trade name Konudur Robopox 10 - Komponente B

Recommended use of the chemical and restrictions on

use No further relevant information available.

· Application of the substance

/ the mixture Epoxy 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.

· 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: Polyoxypropylene triamine

1,3-Cyclohexanedimethanamine
Polymer with amino-functional groups

Tetraethylenepentamine

Hydrocarbons, C9-unsaturated, polymerised

Phenol, mono- and distyrolised

decarboxylating cashew nut shell liquid

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

H314 Causes severe skin burns and eye damage.

H317 May cause allergic skin reaction.

• 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.

Immediately call a POISON CENTER/doctor.

P310 Immediately call a POISON CENTER/do 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: 1317-65-3	Calcium carbonate	50-70%
CAS: 39423-51-3	Polyoxypropylene triamine	≥3-<10%
	Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312	
	Polymer with amino-functional groups	≥3-<10%
	Eye Dam. 1, H318; Skin Irrit. 2, H315; Skin Sens. 1, H317	
CAS: 2579-20-6	1,3-Cyclohexanedimethanamine	≥3-<5%
	Skin Corr. 1, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312; Aquatic Chronic 3, H412	
CAS: 71302-83-5	Hydrocarbons, C9-unsaturated, polymerised	≥2.5-<5%
	Asp. Haz., H304; Skin Sens. 1, H317; Aquatic Chronic 3, H412	
CAS: 93281-16-4	Phenol, reaction products with divinylbenzene	≥2.5-<3%
	Aquatic Chronic 3, H412	
CAS: 100-51-6	Benzyl alcohol	<3%
	Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Irrit. 2, H319	
CAS: 8007-24-7	decarboxylating cashew nut shell liquid	≥1-<2.5%
	Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; Skin Sens. 1, H317	
CAS: 90640-66-7	Tetraethylenepentamine	≥1-<1.5%
	Skin Corr. 1, H314; Eye Dam. 1, H318; Skin Sens. 1, H317	
CAS: 69-72-7	Salicylic acid	<0.5%
	Repr. 2, H361; Eye Dam. 1, H318; Acute Tox. 4, H302	

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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

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). 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.

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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: None.
Storage class 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:

CAS: 1317-65-3 Calcium carbonate

PEL (Malaysia) Long-term value: 10 mg/m³

· DNELs

CAS: 1317-65-3 Calcium carbonate

Oral DNEL 6.1 mg/kg bw/Tag (ArL)

Inhalative DNEL 10 mg/m³ (ArL)

CAS: 39423-51-3 Polyoxypropylene triamine

Inhalative DNEL 14 mg/m³ (ArL)

CAS: 2579-20-6 1,3-Cyclohexanedimethanamine

Inhalative DNEL 0.00947 mg/m³ (Workers)

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Trade name Konudur Robopox 10 - Komponente B

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CAS: 1	00-51-6 B	Benzyl alcohol	
Oral	DNEL	4 mg/kg bw/Tag (ArL)	
		20 mg/kg bw/Tag (Ark)	
Dermal	DNEL	8 mg/kg bw/day (ArL)	
		40 mg/kg bw/day (Ark)	
Inhalativ	/e DNEL	22 mg/m³ (ArL)	
		110 mg/m³ (Ark)	
PNECs			
CAS: 1	317-65-3	Calcium carbonate	
PNEC	100 mg/l ((Sewage Treatment Plant)	
CAS: 3	9423-51-3	3 Polyoxypropylene triamine	
PNEC	10 mg/l (Sewage Treatment Plant)		
	0.00044 mg/l (Mew)		
	0.0044 mg	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: 2	579-20-6	1,3-Cyclohexanedimethanamine	
PNEC	0.003 mg/	// (Mew)	
PNEC	0.033 mg/l (Fresh water)		
CAS: 1	00-51-6 B	Benzyl alcohol	
PNEC	0.527 mg/	/I (Marine water sediment)	
	0.1 mg/l (l	Mew)	
	1 mg/l (Fr	resh water sediment)	
PNEC	0.456 mg/	/kg dwt (Bod)	
	5 27 ma/k	g 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

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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.

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: Pasty
Colour: Black
Smell: Amine-like

• **pH-value at 20 °C**: 12

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Change in condition Melting point/freezing point Initial boiling point and boiling r	Not determined ange Not determined	
Flash point:	>61 °C	
Ignition temperature:	Product is not selfigniting.	
Explosive properties:	Product is not explosive.	
Steam pressure:	Not determined.	
Density at 20 °C	1.75 g/cm³	
Solubility in / Miscibility with Water:	Partly miscible	
Viscosity: dynamic at 20 °C: kinematic:	150000 mPas Not determined.	
Other information	No further relevant information available.	

No decomposition if used according to specifications.

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 decomposition products known

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity

71001010	orty		
· LD/LC50	LD/LC50 values that are relevant for classification:		
CAS: 13	CAS: 1317-65-3 Calcium carbonate		
Oral	LD50	>2000 mg/kg (rat)	
Dermal	LD50	>2000 mg/kg (rat)	
CAS: 394	CAS: 39423-51-3 Polyoxypropylene triamine		
Oral	LD50	550 mg/kg (rat)	
Dermal	LD50	>1000 mg/kg (rat)	
	•	•	(Contd. on page 0

No dangerous reactions known

No further relevant information available.

No further relevant information available.

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CAS: 257	9-20-6 1,3-Cyclohexane	edimethanamine
Oral	LD50	700 mg/kg (rat)
Dermal	LD50	1700 mg/kg (rat)
CAS: 932	81-16-4 Phenol, reactio	n products with divinylbenzene
Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>5000 mg/kg (rat)
CAS: 100-51-6 Benzyl alcohol		
Oral	LD50	1230 mg/kg (rat)
	NOAEL 2nd year study	200 mg/kg (mouse)
		200 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)
Inhalative	LC50/4 h	>4178 mg/l (rat)
CAS: 69-7	72-7 Salicylic acid	
Oral	LD50	891 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)

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.

Sensitization possible by skin contact.

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:

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	· Aquatic toxicity:	
CAS: 1317	-65-3 Calcium carbonate	
EC50/72h	>14 mg/l (Desmodesmus subspicatus)	
LC50/96h	>10000 mg/l (Oncorhynchus mykiss)	
LC50/48h	>1000 mg/l (Daphnia magna)	
EC50/48h	>1000 mg/l (Daphnia magna)	
CAS: 3942	3-51-3 Polyoxypropylene triamine	
LC50/96h	>100 mg/l (Oncorhynchus mykiss)	
EC50/48h	13 mg/l (Daphnia magna)	
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ErC50/72h	4.4 mg/l (algae)
CAS: 2579-	-20-6 1,3-Cyclohexanedimethanamine
EC50/24h	90 mg/l (Pseudokirchneriella subcapitata)
EC50	90 mg/l (Pseudomonas putida)
LC50/48h	130 mg/l (Leucidus idus)
CAS: 100-5	51-6 Benzyl alcohol
IC50/72h	700 mg/l (algae)
LC50/96h	460 mg/l (Pimephales promelas)
	10 mg/l (Lepomis macrochirus)

· 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: 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.

Uncleaned packagings:

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

after thorough and proper cleaning.

· UN-Number · ADR, IMDG, IATA	UN2735
· UN proper shipping name · ADR, IMDG, IATA	AMINES, LIQUID, CORROSIVE, N.O.S. (1, Cyclohexanedimethanamin Tetraethylenepentamine)

· ADR

· Class 8 (C7) Corrosive substances.

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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	Ä
Segregation Code	SG35 Stow "separated from" SGG1-acids
Transport in bulk according to Anne	ex II of
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 (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 mi
UN "Model Regulation":	UN 2735 AMINES, LIQUID, CORROSIVE, N.C
•	(1,3-CYCLOHEXANEDIMETHANAMIN
	TETRAETHYLENEPENTAMINE), 8, II

15 Regulatory information

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

· EHS reference list

CAS: 100-51-6 Benzyl alcohol

Directive 2012/18/EU

Named dangerous

substances - ANNEX I None of the ingredients is listed.

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· 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 Eye Irrit. 2: Serious eye damage or eye irritation – Category 2

Skin Sens. 1: Skin sensitization - Category 1 Repr. 2: Reproductive toxicity – Category 2 Asp. Haz.: Aspiration hazard – Category 1

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

Category 3

* * Data compared to the previous version altered.