

Page 1/12

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

Printing date 11.12.2024 Version number 27 Revision: 11.12.2024

1 Identification of the hazardous chemical and of the supplier

· Product identifier

· Trade name Konudur 170 BT - Komponente B

Recommended use of the chemical and restrictions on

use

No further relevant information available.

· Application of the substance

/ the mixture

Epoxy sealing

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 2 H373 May cause damage to organs through prolonged or repeated exposure.

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

4,4'-methylenebis(cyclohexylamine)

polymer amine terminated

(Contd. on page 2)





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

Revision: 11.12.2024 Printing date 11.12.2024 Version number 27

Trade name Konudur 170 BT - Komponente B

(Contd. of page 1)

2,4,6-tris(dimethylaminomethyl)phenol 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 allergic skin reaction.

H373 May cause damage to organs through prolonged or repeated

exposure.

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 com	•	00.000/
CAS: 2855-13-2	Isophorone diamine	30-60%
	Skin Corr. 1, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute	
	Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412	
	polymer amine terminated	10-30%
	Eye Dam. 1, H318; Skin Irrit. 2, H315; Skin Sens. 1, H317	
CAS: 1761-71-3	4,4'-methylenebis(cyclohexylamine)	10-30%
	STOT RE 2, H373; Skin Corr. 1, H314; Eye Dam. 1, H318; Acute Tox.	
	4, H302; Skin Sens. 1, H317	
CAS: 90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	≥5-<10%
	Skin Corr. 1, H314; Eye Dam. 1, H318; Acute Tox. 4, H302	
CAS: 100-51-6	Benzyl alcohol	<5%
	Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Irrit. 2, H319	
	Phenol, mono- und distyrolisiert	≥1-<2.5%
	Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin Sens. 1, H317	
CAS: 69-72-7	salicylic acid	<1%
	Repr. 2, H361; Eye Dam. 1, H318; Acute Tox. 4, H302	



Page 3/12

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

Printing date 11.12.2024 Version number 27 Revision: 11.12.2024

Trade name Konudur 170 BT - 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

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 proceduresWear protective equipment. Keep unprotected persons away. **Environmental precautions:**Inform respective authorities in case product reaches water or

sewage system.

· 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 4/12

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

Printing date 11.12.2024 Version number 27 Revision: 11.12.2024

Trade name Konudur 170 BT - 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.

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: Protect from heat and direct sunlight.

· Storage class 84

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.

	DNELs		
CAS: 2855-13-2 Isophorone diamine			Isophorone diamine
	Oral	DNEL	0.526 mg/kg bw/Tag (ArL)
	Inhalative	DNEL	20.1 mg/m³ (ArL)
	CAS: 1761-71-3 4,4'-methylenebis(cyclohexylamine)		
	Oral	DNEL	0.06 mg/kg bw/Tag (ArL)

(Contd. on page 5)





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

Printing date 11.12.2024 Version number 27 Revision: 11.12.2024

Trade name Konudur 170 BT - Komponente B

		(Contd. of pa
Dermal	DNEL	0.1 mg/kg bw/day (ArL)
		1 mg/m³ (ArL)
CAS: 9	0-72-2 2,4	1,6-tris(dimethylaminomethyl)phenol
Inhalati	ve DNEL	0.31 mg/m³ (ArL)
	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	ve DNEL	22 mg/m³ (ArL)
		110 mg/m³ (Ark)
PNECs		
		Isophorone diamine
	0.006 mg/	
	_	(Freshwater)
PNEC	0.578 mg/	/kg dwt (Sediment)
	_	/kg dwt (Fresh water sediment)
CAS: 1	761-71-3	4,4'-methylenebis(cyclohexylamine)
PNEC	0.08 mg/l	(Fresh water)
	3.2 mg/l (Kla)
	13.7 mg/l	(Mew)
PNEC	27.2 mg/k	rg dwt (Bod)
	13.7 mg/k	ag dwt (Sediment)
	137 mg/k	g dwt (Fresh water sediment)
		4,6-tris(dimethylaminomethyl)phenol
	- ,	Sewage Treatment Plant)
	0.0084 m	g/l (Mew)
	0.084 mg/	/l (Freshwater)
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 mg/k	rg dwt (Fresh water sediment)
. Additio	nal infor	mation: The lists that were valid during the compilation were used as ha

- · 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.

(Contd. on page 6)



Page 6/12

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

Printing date 11.12.2024 Version number 27 Revision: 11.12.2024

Trade name Konudur 170 BT - Komponente B

(Contd. of page 5)

Avoid contact with eyes and skin.

Breathing equipment: If workplace limit values cannot

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

· Penetration time of glove material

· Eye protection:

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.

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.

MY



Page 7/12

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

Printing date 11.12.2024 Version number 27 Revision: 11.12.2024

Trade name Konudur 170 BT - Komponente B

(Contd. of page 6)

Information on basic physical and chemical properties		
General Information		
Appearance:		
Form:	Fluid	
Colour:	Colourless	
Smell:	Amine-like	
pH-value at 20 °C:	10	
Change in condition		
Melting point/freezing point	Not determined	
Initial boiling point and boiling i	range 247 °C	
Flash point:	>100 °C	
Auto-ignition temperature	380 °C	
Auto-ignition temperature	Product is not selfigniting.	
Explosive properties:	Product is not explosive.	
Steam pressure:	Not determined.	
Density at 20 °C	0.98 g/cm³	
Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix	
Viscosity:		
dynamic:	Not determined.	
kinematic:	Not determined.	

10 Stability and reactivity

· Reactivity No further relevant information available.

· Chemical stability

 Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

· Possibility of hazardous reactions

No dangerous reactions known

· Conditions to avoid · Incompatible materials:

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

· Hazardous decomposition

products: No dangerous decomposition products known

MY



Page 8/12

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

Version number 27 Revision: 11.12.2024 Printing date 11.12.2024

Trade name Konudur 170 BT - Komponente B

(Contd. of page 7)

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity

C49. 285	5-13-2 Isophorone dian	nino	
	· ·		
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)	
CAS: 176	1-71-3 4,4'-methylenebi	is(cyclohexylamine)	
Oral	LD50	380 mg/kg (rat)	
Dermal	LD50	2110 mg/kg (rat)	
CAS: 90-7	72-2 2,4,6-tris(dimethyla	aminomethyl)phenol	
Oral	LD50	mg/kg (rat)	
	NOAEL	15 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: 69-72-7 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:

Harmful Corrosive Irritant

(Contd. on page 9)



Page 9/12

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

Printing date 11.12.2024 Version number 27 Revision: 11.12.2024

Trade name Konudur 170 BT - Komponente B

(Contd. of page 8)

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: CAS: 2855	-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: 1761	-71-3 4,4'-methylenebis(cyclohexylamine)
LC50/96h	>100 mg/l (Leucidus idus)
EC50/48h	6.84 mg/l (Daphnia magna)
NOEC	4 mg/l (Daphnia magna)
ErC50/72h	141.2 mg/l (Desmodesmus subspicatus)
CAS: 90-72	2-2 2,4,6-tris(dimethylaminomethyl)phenol
EC50/72h	84 mg/l (Desmodesmus subspicatus)
LC50/96h	175 mg/l (Cyp)
	718 mg/l (Daphnia magna)
NOEC	2 mg/l (BEL)
	6.25 mg/l (Desmodesmus subspicatus)
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.

· Ecotoxical effects:

· Remark: Toxic for fish

· Additional ecological information:

General notes: Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

(Contd. on page 10)





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

Printing date 11.12.2024 Version number 27 Revision: 11.12.2024

Trade name Konudur 170 BT - Komponente B

(Contd. of page 9)

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.

· Uncleaned packagings:

• Recommendation: Dispose of packaging according to regulations on the disposal of

packagings.

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. (4,4) m e t h y l e n e b i s (c y c l o h e x y l a m i n e ISOPHORONEDIAMINE)
Transport hazard class(es)	
ADR Class Label	8 (C7) Corrosive substances. 8
IMDG, IATA Class Label	8 Corrosive substances. 8
Packing group ADR, IMDG, IATA	II
Environmental hazards: Marine pollutant:	No
Special precautions for user Kemler Number:	Warning: Corrosive substances. 80

ita. on page



Page 11/12

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

Printing date 11.12.2024 Version number 27 Revision: 11.12.2024

Trade name Konudur 170 BT - Komponente B

(Contd. of page 10)

· **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 Annex 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)

· Excepted quantities (EQ) Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (4,4'-METHYLENEBIS(CYCLOHEXYLAMINE),

ISOPHORONEDIAMINE), 8, II

15 Regulatory information

UN "Model Regulation":

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

· EHS reference lis	st
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CAS: 2855-13-2 Isophorone diamine

CAS: 90-72-2 2,4,6-tris(dimethylaminomethyl)phenol

CAS: 100-51-6 Benzyl alcohol

· 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.

(Contd. on page 12)



Page 12/12

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

Printing date 11.12.2024 Version number 27 Revision: 11.12.2024

Trade name Konudur 170 BT - Komponente B

(Contd. of page 11)

· 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

STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2 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.