



BE SURE. BUILD SURE.

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

Printing date 15.03.2024




Version number 33

Revision: 15.03.2024

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

- **Product identifier**
- **Trade name** Konudur 160 PL-XL - 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 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 Hazards identification

- **Classification of the substance or mixture**
 - Acute Tox. 4 H302 Harmful if swallowed.*
 - Acute Tox. 5 H313 May be harmful in contact with skin.*
 - Acute Tox. 5 H333 May be harmful if inhaled.*
 - Skin Corr. 1A 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 Acute 2 H401 Toxic to aquatic life.*
 - 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*

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- **Hazard statements**
2-methylpentane-1,5-diamine
polymer amine terminated
Fettsäuren, Tallöl-, Reaktionsprodukte mit Triethylentetramin
Hydrocarbons, C9-unsaturated, polymerised
2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine
Triethylenetetramine
2,4,6-Tris-(1-Phenyl-Ethyl) carboic acid
Harmful if swallowed.
May be harmful in contact with skin.
May be harmful if inhaled.
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.
- **Precautionary statements**
Toxic to aquatic life with long lasting effects.
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.

· **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	30-60%
	polymer amine terminated Eye Dam. 1, H318; Skin Irrit. 2, H315; Skin Sens. 1B, H317	10-30%
CAS: 1226892-44-9	Fettsäuren, Tallöl-, Reaktionsprodukte mit Triethylentetramin Skin Corr. 1C, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1, H317	≥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%

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CAS: 71302-83-5	Hydrocarbons, C9-unsaturated, polymerised Asp. Tox. 1, H304; Skin Sens. 1A, H317; Aquatic Chronic 3, H412	≥2.5-<5%
CAS: 15520-10-2	2-methylpentane-1,5-diamine Skin Corr. 1A, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; STOT SE 3, H335; Flam. Liq. 4, H227	≥3-<5%
CAS: 25513-64-8	2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine Skin Corr. 1A, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Sens. 1, H317	≥3-<5%
CAS: 90640-67-8	Triethylenetetramine Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412	≥1-<1.5%
CAS: 61788-44-1	2,4,6-Tris-(1-Phenyl-Ethyl) carboic acid Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Acute 2, H401	≥1-<1.5%

· **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 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.

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- **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:** Prevent material from reaching sewage system, holes and cellars.
- **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.
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.
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:** None.

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· **Storage class**

8A

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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

Oral 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)

CAS: 15520-10-2 2-methylpentane-1,5-diamine

Dermal DNEL 1.5 mg/kg bw/day (ArL)

Inhalative DNEL 0.25 mg/m³ (ArL)

0.5 mg/m³ (Ark)

· **PNECs**

CAS: 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: 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: 15520-10-2 2-methylpentane-1,5-diamine

PNEC 0.042 mg/l (Mew)

0.42 mg/l (Freshwater)

CAS: 25513-64-8 2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine

PNEC 72 mg/l (Sewage Treatment Plant)

0.102 mg/l (Fresh water)

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PNEC	0.01 mg/l (Mew)
	10 mg/kg dwt (Bod)
	0.062 mg/kg dwt (Sediment)
	0.622 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

· **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.

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- **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:	<i>Fluid</i>
· Colour:	<i>Yellow</i>
· Smell:	<i>Amine-like</i>

· **pH-value:** *Not determined.*

· **Change in condition**

· Melting point/freezing point:	<i>Not determined</i>
· Initial boiling point and boiling range:	<i>232 °C</i>

· **Flash point:** *110 °C*

· **Auto-ignition temperature:** *380 °C*

· **Self-inflammability:** *Product is not selfigniting.*

· **Explosive properties:** *Product is not explosive.*

· **Steam pressure at 20 °C:** *0.1 hPa*

· **Density at 20 °C** *0.95 g/cm³*

· **Solubility in / Miscibility with**

· **Water:** *Not miscible or difficult to mix*

· **Viscosity:**

· dynamic:	<i>Not determined.</i>
· kinematic:	<i>Not determined.</i>

· **Other information**

No further relevant information available.

10 Stability and reactivity

· **Reactivity** *No further relevant information available.*

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- **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** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity**

· **LD/LC50 values that are relevant for classification:**

CAS: 2855-13-2 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)

CAS: 39423-51-3 Polyoxypropylene triamine

Oral	LD50	550 mg/kg (rat)
Dermal	LD50	>1000 mg/kg (rat)

CAS: 15520-10-2 2-methylpentane-1,5-diamine

Oral	LD50	1170 mg/kg (rat)
Dermal	LD50	1870 mg/kg (rabbit)
Inhalative	LC50/4 h	19.6 mg/l (rat)

CAS: 25513-64-8 2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine

Oral	LD50	910 mg/kg (rat)
	NOAEL	10 mg/kg (rat)

CAS: 90640-67-8 Triethylenetetramine

Oral	LD50	1716 mg/kg (rat)
Dermal	LD50	1465 mg/kg (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** Sensitization possible by skin contact.
- **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:

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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)
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: 15520-10-2 2-methylpentane-1,5-diamine

EC50/72h	>100 mg/l (algae)
EC50	1825 mg/l (fish)
EC50/48h	19.8 mg/l (Daphnia magna)

CAS: 25513-64-8 2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine

EC50/24h	31.5 mg/l (Daphnien)
EC50	89 mg/l (Pseudomonas putida)
LC50/48h	174 mg/l (Leucidus idus)
NOEC	10.9 mg/l (Danio rerio)
	16 mg/l (Pseudokirchneriella subcapitata)
	1.02 mg/l (Daphnia magna)
ErC50/72h	43.5 mg/l (Pseudokirchneriella subcapitata)

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

· **Behaviour in environmental systems:**

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

· **Ecotoxicological effects:**

· **Remark:** Harmful to fish

· **Additional ecological information:**

· **General notes:** Must not reach sewage water or drainage ditch undiluted or unneutralised.

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Harmful to aquatic organisms

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:

Dispose of packaging according to regulations on the disposal of packagings.

Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

14 Transport information

· UN-Number

· ADR, IMDG, IATA

UN2735

· UN proper shipping name

· ADR

AMINES, LIQUID, CORROSIVE, N.O.S.
(I S O P H O R O N E D I A M I N E ,
TRIMETHYLHEXAMETHYLENEDIAMINES),
ENVIRONMENTALLY HAZARDOUS

· IMDG

AMINES, LIQUID, CORROSIVE, N.O.S.
(I S O P H O R O N E D I A M I N E ,
TRIMETHYLHEXAMETHYLENEDIAMINES),
MARINE POLLUTANT

· IATA

AMINES, LIQUID, CORROSIVE, N.O.S.
(I S O P H O R O N E D I A M I N E ,
TRIMETHYLHEXAMETHYLENEDIAMINES)

· Transport hazard class(es)

· ADR

· Class

· Label

8 (C7) Corrosive substances.

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· IMDG, IATA · Class · Label	8 Corrosive substances. 8
· Packing group · ADR, IMDG, IATA	II
· Environmental hazards: · Marine pollutant: · Special marking (ADR):	Product contains environmentally hazardous substances: Fettsäuren, Tallöl-, Reaktionsprodukte mit Triethylentetramin Yes Symbol (fish and tree) Symbol (fish and tree)
· Special precautions for user · Kemler Number: · EMS Number: · Segregation groups · Stowage Category · Segregation Code	Warning: Corrosive substances. 80 F-A,S-B (SGG18) Alkalis A 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) · Excepted quantities (EQ) · Transport category · Tunnel restriction code	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml 2 E
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L 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. (I S O P H O R O N E D I A M I N E , TRIMETHYLHEXAMETHYLENEDIAMINES), 8, II, ENVIRONMENTALLY HAZARDOUS

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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.
- **Seveso category** E2 Hazardous to the Aquatic Environment
- **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
Flam. Liq. 4: Flammable liquids – Category 4
Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 5: Acute toxicity – Category 5
Skin Corr. 1A: Skin corrosion/irritation – Category 1A
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Skin Corr. 1C: Skin corrosion/irritation – Category 1C
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
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard – Category 2

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.**

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