



BE SURE. BUILD SURE.

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Safety data sheet according to 1907/2006/EC, Article 31

Printing date 16.10.2021

Version number 9

Revision: 15.10.2021

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*
- **Emergency telephone number:** *Tel.: +49 / (0)700 24112112 (MCR)
Tel.: +48612864565*

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. 1B *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

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- **Signal word** Danger
- **Hazard-determining components of labelling:** 3-aminomethyl-3,5,5-trimethylcyclohexylamine
2-methylpentane-1,5-diamine
Amine polymer
Fettsäuren, Tallöle, Reaktionsprodukt mit Triethylentetramin
3,3,5-trimethylhexamethylene-diamine
3,6-diazaoctanethylenediamin
2,4,6-Tris-(1-Phenyl-Ethyl) carboic acid
- **Hazard statements** 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.
Toxic to aquatic life with long lasting effects.
- **Precautionary statements** 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:**

| | | |
|------------|--|----------|
| 2855-13-2 | 3-aminomethyl-3,5,5-trimethylcyclohexylamine Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412 | 25-50% |
| | Amine polymer Eye Dam. 1, H318; Skin Irrit. 2, H315; Skin Sens. 1B, H317 | ≥10-<25% |
| 68919-79-9 | Fettsäuren, Tallöle, Reaktionsprodukt mit Triethylentetramin Skin Corr. 1C, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1, H317 | ≥5-<25% |
| 39423-51-3 | Polyoxypropylentriamin Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Acute Tox. 4, H312 | ≥5-<25% |

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|------------|--|--------------------|
| 38640-62-9 | Diisopropyl-naphthalin-Isomere Aquatic Chronic 2, H411; Acute Tox. 5, H303; Acute Tox. 5, H313; Aquatic Acute 2, H401 | ≥2.5-<5% |
| 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; Flam. Liq. 4, H227 | ≥3-<5% |
| 25513-64-8 | 3,3,5-trimethylhexamethylene-diamine Skin Corr. 1C, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Sens. 1, H317; Aquatic Acute 3, H402; Aquatic Chronic 3, H412 | ≥3-<5% |
| 112-24-3 | 3,6-diazaoctanethylenediamin Skin Corr. 1B, H314; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412 | ≥1-<1.5% |
| 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** Take affected persons into the open air.
Instantly remove any clothing soiled by the product.
- **After inhalation** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact** Instantly wash with water and soap and rinse thoroughly.
- **After eye contact** Rinse opened eye for several minutes under running water.
Call a doctor immediately.
- **After swallowing** Rinse out mouth and then drink plenty of water.
Instantly call for doctor.
- **Information for doctor**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

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** Store in cool, dry place in tightly closed containers.
Open and handle container with care.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

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· Control parameters
· Components with critical values that require monitoring at the workplace:
112-24-3 3,6-diazaoctanethylenediamin

| | |
|------------|--|
| WEEL (USA) | Long-term value: 6 mg/m ³ , 1 ppm |
| | Skin |

· DNELs
2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine

| | | |
|------------|------|------------------------------|
| Oral | DNEL | 0.526 mg/kg bw/Tag (ArL) |
| Inhalative | DNEL | 20.1 mg/m ³ (ArL) |

39423-51-3 Polyoxypropylentriamin

| | | |
|------------|------|----------------------------|
| Inhalative | DNEL | 14 mg/m ³ (ArL) |
|------------|------|----------------------------|

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

| | | |
|------------|------|------------------------------|
| Dermal | DNEL | 1.5 mg/kg bw/day (ArL) |
| Inhalative | DNEL | 0.25 mg/m ³ (ArL) |
| | | 0.5 mg/m ³ (Ark) |

· PNECs
2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine

| | |
|------|--|
| PNEC | 0.006 mg/l (Mew) |
| | 0.06 mg/l (Suw) |
| PNEC | 0.578 mg/kg dwt (Sediment) |
| | 5.784 mg/kg dwt (Fresh water sediment) |

39423-51-3 Polyoxypropylentriamin

| | |
|------|---------------------------------------|
| PNEC | 10 mg/l (Sewage Treatment Plant) |
| | 0.00044 mg/l (Mew) |
| | 0.0044 mg/l (Suw) |
| PNEC | 0.002 mg/kg dwt (Bod) |
| | 0.002 mg/kg dwt (Sediment) |
| | 0.02 mg/kg dwt (Fresh water sediment) |

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

| | |
|------|------------------|
| PNEC | 0.042 mg/l (Mew) |
| | 0.42 mg/l (Suw) |

25513-64-8 3,3,5-trimethylhexamethylene-diamine

| | |
|------|--|
| PNEC | 72 mg/l (Sewage Treatment Plant) |
| | 0.102 mg/l (Fresh water) |
| | 0.01 mg/l (Mew) |
| PNEC | 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.

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- **Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**
 - Keep away from foodstuffs, beverages and food.
 - Instantly remove any soiled and impregnated garments.
 - Wash hands during breaks and at the end of the work.
 - Avoid contact with the eyes and skin.
- **Protection of hands:**
 - Protective gloves.
 - Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
 - After use of gloves apply skin-cleaning agents and skin cosmetics.
- **Material of gloves**
 - The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**
 - The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**
 - Safety glasses
 - Tightly sealed safety glasses.
- **Body protection:**
 - Protective work clothing.

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

| | |
|---------|------------|
| Form: | Fluid |
| Colour: | Yellow |
| Smell: | Amine-like |

· Change in condition

| | |
|--|----------------|
| Melting point/freezing point: | Not determined |
| Initial boiling point and boiling range: | 232 °C |

· **Flash point:** 110 °C

· **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

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· **Solubility in / Miscibility with Water:**

Not miscible or difficult to mix

· **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:**

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:**

2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine

| | | |
|--------|-------|---------------------|
| Oral | LD50 | 1030 mg/kg (rat) |
| | NOAEL | 250 mg/kg (rat) |
| Dermal | LD50 | 1840 mg/kg (rabbit) |
| | | >2000 mg/kg (rat) |

39423-51-3 Polyoxypropylentriamin

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

38640-62-9 Diisopropylnaphthalin-Isomere

| | | |
|------------|---------------|-------------------|
| Oral | LD50 | >4000 mg/kg (rat) |
| Dermal | LD50 | >4000 mg/kg (rat) |
| Inhalative | LC50 OECD 403 | >5.6 mg/l (rat) |

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) |

25513-64-8 3,3,5-trimethylhexamethylene-diamine

| | | |
|------|------|-----------------|
| Oral | LD50 | 910 mg/kg (rat) |
|------|------|-----------------|

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| | | |
|--|-------|--------------------|
| | NOAEL | 10 mg/kg (rat) |
| 112-24-3 3,6-diazaoctanethylenediamin | | |
| Oral | LD50 | 1716.2 mg/kg (rat) |
| Dermal | LD50 | 1720 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:

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:**

| | |
|---|------------------------------------|
| 2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine | |
| 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) |
| 39423-51-3 Polyoxypropylentriamin | |
| LC50/96h | >100 mg/l (Oncorhynchus mykiss) |
| EC50/48h | 13 mg/l (Daphnia magna) |
| ErC50/72h | 4.4 mg/l (algae) |
| 38640-62-9 Diisopropyl-naphthalin-Isomere | |
| EC50/72h | 0.15 mg/l (algae) |
| LC50/48h | 1.7 mg/l (Daphnia magna) |
| EC50/48h | 0.16 mg/l (Daphnia magna) |
| 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) |

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25513-64-8 3,3,5-trimethylhexamethylene-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.
Harmful to aquatic organisms
Danger to drinking water if even extremely 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.



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14 Transport information

| | |
|---|--|
| · UN-Number · ADR, IMDG, IATA | UN2735 |
| · UN proper shipping name · ADR · IMDG · IATA | AMINES, LIQUID, CORROSIVE, N.O.S. (Fettsäuren, Tallöle, Reaktionsprodukt mit Triethylentetramin, ISOPHORONEDIAMINE), ENVIRONMENTALLY HAZARDOUS AMINES, LIQUID, CORROSIVE, N.O.S. (Fettsäuren, Tallöle, Reaktionsprodukt mit Triethylentetramin, ISOPHORONEDIAMINE), MARINE POLLUTANT AMINES, LIQUID, CORROSIVE, N.O.S. (Fettsäuren, Tallöle, Reaktionsprodukt mit Triethylentetramin, 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: · Special marking (ADR): | Product contains environmentally hazardous substances: Fettsäuren, Tallöle, Reaktionsprodukt 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 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) | 1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml |

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| | |
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| · Transport category | 2 |
| · Tunnel restriction code | E |
| <hr/> | |
| · 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. (FETTSÄUREN, TÄLLÖLE, REAKTIONSPRODUKT MIT TRIETHYLENTETRAMIN, ISOPHORONEDIAMINE), 8, 11, ENVIRONMENTALLY HAZARDOUS |

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

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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. 1B: Skin sensitisation – Category 1B

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 Acute 3: Hazardous to the aquatic environment - acute aquatic hazard – Category 3

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

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