

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

1.1. Product identifier

Name of product HYDROPOX EPG B-Komponente

1.2. Relevant identified uses of the substance or mixture and uses advised against

No information available.

1.3. Details of the supplier of the safety data sheet

Manufacturer/distributor TPH Bausysteme GmbH
Nordportbogen 8, D-22848 Norderstedt
Phone +49 (0)40 / 52 90 66 78-0, Fax +49 (0)40 / 52 90 66
78-78
E-Mail info@tph-bausysteme.com
Internet www.tph-bausysteme.com

Advice

E-mail (competent person):
sdb-info@tph-bausysteme.com

1.4. Emergency telephone number

Emergency advice GIZ-Nord
Phone +49 (0)551 / 19240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]

| Hazard classes and Hazard categories | Hazard Statements | Classification procedure |
|--------------------------------------|-------------------|--------------------------|
|--------------------------------------|-------------------|--------------------------|

| | |
|-------------------|------|
| Acute Tox. 4 | H302 |
| Acute Tox. 4 | H312 |
| Skin Corr. 1B | H314 |
| Skin Corr. 1C | H314 |
| Skin Sens. 1 | H317 |
| Aquatic Chronic 3 | H412 |

Hazard statements for health hazards

| | |
|-------------|---|
| H302 + H312 | Harmful if swallowed or in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H317 | May cause an allergic skin reaction. |

Hazard statements for environmental hazards

| | |
|------|--|
| H412 | Harmful to aquatic life with long lasting effects. |
|------|--|

Additional hints

This mixture is classified as hazardous according to Regulation (EC) No 1272/2008 [GHS].

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]



GHS05



GHS07

Signal word

Danger

Hazard statements for health hazards

H302 + H312 Harmful if swallowed or in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.

Hazard statements for environmental hazards

H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements

Prevention

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P302 + P352 IF ON SKIN: Wash with plenty of water/soap.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P311 Call a POISON CENTER/doctor.

Hazardous ingredients for labeling

3-aminomethyl-3,5,5-trimethylcyclohexylamine, benzyl-alcohol

2.3. Other hazards

No information available.

! SECTION 3: Composition/ information on ingredients

3.1. Substances

not applicable

3.2. Mixtures

Description

Hardener

! Hazardous ingredients

| CAS No | EC No | Name | [% weight] | Classification according to Regulation (EC) No 1272/2008 [CLP/GHS] |
|-----------|-----------|--|------------|--|
| 100-51-6 | 202-859-9 | benzyl-alcohol | 25 - 50 | Acute Tox. 4, H332 / Acute Tox. 4, H302 / Eye Irrit.2, H319 |
| 2855-13-2 | 220-666-8 | 3-aminomethyl-3,5,5-trimethylcyclohexylamine | 25 - 50 | Acute Tox. 4, H312 / Acute Tox. 4, H302 / Skin Corr. 1B, H314 / Skin Sens. 1, H317 / Aquatic Chronic 3, H412 |

Hazardous ingredients (continued)

| CAS No | EC No | Name | [% weight] | Classification according to Regulation (EC) No 1272/2008 [CLP/GHS] |
|----------|-----------|----------------------|------------|---|
| 103-83-3 | 203-149-1 | benzyl-dimethylamine | 3 < 5 | Flam. Liq. 3, H226 / Acute Tox. 4, H332 / Acute Tox. 4, H312 / Acute Tox. 4, H302 / Skin Corr. 1B, H314 / Aquatic Chronic 3, H412 |

REACH

| CAS No | Name | REACH registration number |
|-----------|--|---------------------------|
| 100-51-6 | benzyl-alcohol | 01-2119492630-38-XXXX |
| 2855-13-2 | 3-aminomethyl-3,5,5-trimethylcyclohexylamine | 01-2119514687-32-XXXX |
| 103-83-3 | benzyl-dimethylamine | 01-2119529232-48-XXXX |

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated soaked clothing immediately.

If threatening unconsciousness, position and transport in recovery position

Symptoms of poisoning may not occur for many hours, therefore keep under medical supervision for at least 48 hours.

In case of inhalation

Ensure of fresh air.

Refer for medical treatment.

In case of skin contact

In case of contact with skin wash off immediately with soap and water.

Consult a doctor if skin irritation persists.

In case of eye contact

In case of contact with eyes rinse with plenty of water carefully. In the event of persistent symptoms seek medical treatment.

In case of ingestion

Call for a doctor immediately.

Rinse out mouth and give plenty of water to drink.

4.2. Most important symptoms and effects, both acute and delayed

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Treatment (Advice to doctor)

Treat symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Dry powder

Carbon dioxide

Water spray jet

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

No information available.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Use breathing apparatus with independent air supply.

Wear full protective clothing.

Additional information

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

Collect contaminated firefighting water separately, must not be discharged into the drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Keep people away and stay on the upwind side.

Use personal protective clothing.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

Do not discharge into the subsoil/soil.

6.3. Methods and material for containment and cleaning up

Take up with absorbent material (e.g. sand, kieselguhr, acid binder, general-purpose binder, sawdust).

After taking up the material dispose according to regulation.

Additional Information

Informations for disposal see chapter 13.

6.4. Reference to other sections

No information available.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.

General protective measures

Avoid contact with eyes and skin

Hygiene measures

At work do not eat, drink and smoke.

Remove soiled or soaked clothing immediately.

Keep separated from food and feed.

Wash hands before breaks and after work.

Advice on protection against fire and explosion

No special measures necessary.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Provide floor with bunding.
Keep only in original container.

Advice on storage compatibility

no

Further information on storage conditions

Store closed container at cool and aired place.

7.3. Specific end use(s)

No information available.

! SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls

Respiratory protection

Short-term: filter apparatus, filter AX, otherwise environment-independent breathing apparatus.

Hand protection

Synthetic rubber gloves
PVC gloves

Eye protection

tightly fitting goggles

Other protection measures

protective clothing

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

liquid

Colour

light yellow

Odour

similar to amine

Odour threshold

not determined

Important health, safety and environmental information

| | Value | Temperature | at | Method | Remark |
|---------------------------|----------------|-------------|--------|--------|--------|
| pH value | 10 | 20 °C | 20 g/l | | |
| Acid number | not determined | | | | |
| boiling range | > 200 °C | | | | |
| stock point | -35 °C | | | | |
| Flash point | 101 °C | | | | |
| Vapourisation rate | not determined | | | | |

| | Value | Temperature | at | Method | Remark |
|--|----------------------------|-------------|----|-------------------|----------------------------------|
| Flammable (solid) | not applicable | | | | |
| Flammability (gas) | not applicable | | | | |
| Ignition temperature | 380 °C | | | | |
| Self ignition temperature | no | | | | |
| Lower explosion limit | 1,2 Vol-% | | | | |
| Upper explosion limit | 13 Vol-% | | | | |
| Vapour pressure | 0,3 hPa | 20 °C | | | |
| Relative density | ca. 0,99 g/cm ³ | 23 °C | | DIN EN ISO 2811-1 | |
| Bulk density | not applicable | | | | |
| Vapour density | not determined | | | | |
| Solubility in water | | | | | partially miscible |
| Solubility/other | | | | | soluble in most organic solvents |
| Partition coefficient n-octanol/water (log P O/W) | not determined | | | | |
| Decomposition temperature | No data available | | | | |
| Viscosity dynamic | ca. 20 - 40 mPa*s | 23 °C | | DIN EN ISO 2555 | |
| Solvent separation test | not determined | | | | |
| Solvent content | 0 % | | | | |
| Water content | not determined | | | | |
| Solids content | not applicable | | | | |
| Combustion value | not applicable | | | | |
| Oxidising properties | no | | | | |
| Explosive properties | no | | | | |

9.2. Other information
Product smells offensive.

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

No information available.

10.3. Possibility of hazardous reactions

No information available.

10.4. Conditions to avoid

None, if handled according to order.

10.5. Incompatible materials

Substances to avoid

Reactions with acids.

10.6. Hazardous decomposition products

No dangerous composition products during appropriate storage and handling.

Thermal decomposition

Remark No decomposition if used as directed.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity/Irritation/Sensitization

| | Value/Validation | Species | Method | Remark |
|---|------------------|---------|--------|--------|
| LD50 acute oral | 1230 mg/kg | rat | | |
| LD50 acute dermal | 2000 mg/kg | rabbit | | |
| LC50 acute inhalation | not determined | | | |
| Skin irritation | corrosive | | | |
| Eye irritation | corrosive | | | |
| Skin sensitization | sensitizing | | | |
| Sensitization respiratory system | sensitizing | | | |

Subacute Toxicity - Carcinogenicity

| | Value | Species | Method | Validation |
|------------------------------|----------------|---------|--------|------------|
| Subacute Toxicity | not determined | | | |
| Subchronic Toxicity | not determined | | | |
| Chronic Toxicity | not determined | | | |
| Mutagenicity | not determined | | | |
| Reproduction-Toxicity | not determined | | | |
| Carcinogenicity | not determined | | | |

Specific target organ toxicity (single exposure)

No data available

Specific target organ toxicity (repeated exposure)

No data available

Aspiration hazard

No data available

Toxicity test (Additional information)

no

Experiences made from practice

Frequent persistent contact with the skin may cause skin irritation.

Additional information

Toxical dates refer to solvent.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicological effects

| | Value | Species | Method | Validation |
|-----------------|----------------------|-------------------------|--------|------------|
| Fish | LC50 646 mg/l (48 h) | Leuciscus idus | | |
| Daphnia | EC50 400 mg/l (96 h) | Daphnia magna | | |
| Algae | EC50 640 mg/l (96 h) | Scenedesmus subspicatus | | |
| Bacteria | not determined | | | |

12.2. Persistence and degradability

| | Elimination rate | Method of analysis | Method | Validation |
|--|------------------|--------------------|--------|------------|
| Physico-chemical degradability | not determined | | | |
| Biological degradability | not determined | | | |
| Degradability | not determined | | | |
| Biological eliminability | not determined | | | |
| Degradability according to WRMG | not determined | | | |

12.3. Bioaccumulative potential

No specific test data available. No indications of critical characteristics.

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

Behaviour in sewage plant

not determined

Respiration inhibition of activated sludge

| | Value | Method | Remark |
|--------------|----------------|--------|--------|
| EC 50 | not determined | | |

Additional ecological information

| | Value | Method | Remark |
|------------|----------------|--------|--------|
| OC | not determined | | |
| COD | not determined | | |
| BOD | not determined | | |
| AOX | not applicable | | |

Contains following heavy metals and compounds of the 76/464/EWG

no

General regulation

Because of damage to water organism do not fill in presurge.

Toxic to fishes.

Do not allow uncontrolled leakage of product into the environment.

Product is not allowed to be discharged into aquatic environment, drains or sewage treatment plants.

The information to ecology refers to solvent.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| Waste code No. | Name of waste |
|----------------|---|
| 08 01 11* | waste paint and varnish containing organic solvents or other hazardous substances |

Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 2008/98/EC on hazardous waste.

Recommendations for the product

In accordance with regulations for special waste, must be taken to a special waste disposal.

Recommendations for packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Packaging that cannot be cleaned should be disposed of like the product.

SECTION 14: Transport information

| | ADR/RID | IMDG | IATA-DGR |
|---|--|--|--|
| 14.1. UN number | 2735 | 2735 | 2735 |
| 14.2. UN proper shipping name | POLYAMINES, LIQUID, CORROSIVE, N.O.S. (3-aminomethyl-3,5,5-trimethylcyclohexylamine) | POLYAMINES, LIQUID, CORROSIVE, N.O.S. (3-aminomethyl-3,5,5-trimethylcyclohexylamine) | Polyamines, liquid, corrosive, n.o.s. (3-aminomethyl-3,5,5-trimethylcyclohexylamine) |
| 14.3. Transport hazard class(es) | 8 | 8 | 8 |
| 14.4. Packing group | III | III | III |
| 14.5. Environmental hazards | No | No | No |

14.6. Special precautions for user

No information available.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available.

Land and inland navigation transport ADR/RID

Hazard label(s) 8
 tunnel restriction code E
 Classification code C7

SECTION 15: Regulatory information

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

National regulations

Other regulations, restrictions and prohibition regulations

MAL-Code: 00-5 (Denmark)

MAL-kode (Denmark): 00-5 (Ready-for-use mixture)

ZH 1/129 "Data Sheet: Irritating substances / corrosive substances (M 004)"

ZH 1/301 "Data Sheet: Polyester and Epoxide resins (M 023)"

Water hazard class 1 Mixture-WGK

15.2. Chemical Safety Assessment

No information available.

SECTION 16: Other information

Recommended uses and restrictions

National and local regulations concerning chemicals shall be observed.

Further information

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 2.4

- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H412 Harmful to aquatic life with long lasting effects.