

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

1.1. Product identifier

Name of product PUR-O-STOP

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 | H332 | |
| Skin Irrit. 2 | H315 | |
| Eye Irrit. 2 | H319 | |
| Resp. Sens. 1 | H334 | |
| Skin Sens. 1 | H317 | |
| Carc. 2 | H351 | |
| STOT SE 3 | H335 | |
| STOT RE 2 | H373 | |

Hazard statements for health hazards

| | |
|------|--|
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335 | May cause respiratory irritation. |
| H351 | Suspected of causing cancer. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |

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]



GHS07



GHS08

Signal word

Danger

Hazard statements for health hazards

| | |
|------|--|
| H315 | Causes skin irritation. |
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| H373 | May cause damage to organs through prolonged or repeated exposure. |

Precautionary Statements

Prevention

| | |
|------|--|
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P285 | In case of inadequate ventilation wear respiratory protection. |

Response

| | |
|--------------------|--|
| 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. |

Hazardous ingredients for labeling

4,4'-Methylenediphenyldiisocyanate, oligomeric reaction products with butane-1,3-diol, 2,4'-diisocyanatodiphenylmethane-[(methylethylene)bix(oxy)]dipropanol and propane-1,2-diol

Special rules for supplemental label elements for certain mixtures

Contains isocyanates. May produce an allergic reaction.

2.3. Other hazards

No information available.

SECTION 3: Composition/ information on ingredients

3.1. Substances

not applicable

3.2. Mixtures

Hazardous ingredients

| CAS No | EC No | Name | [% weight] | Classification according to Regulation (EC) No 1272/2008 [CLP/GHS] |
|-----------|-----------|------------------------------|------------|--|
| 78-40-0 | 201-114-5 | triethylphosphate | 10 - 25 | Acute Tox. 4, H302 |
| 6425-39-4 | 229-194-7 | 2,2-Dimorpholinodiethylether | <= 1 | Skin Irrit. 2, H315 / Eye Irrit. 2, H319 |

Hazardous ingredients (continued)

| CAS No | EC No | Name | [% weight] | Classification according to Regulation (EC) No 1272/2008 [CLP/GHS] |
|-------------|-----------|--|------------|--|
| 123714-19-2 | 500-312-1 | Diphenylmethan-4,4'-diisocyanat, oligomere Reaktionsprodukte mit Butan-1,2-diol, 2,4'-Diisocyanatodiphenylmethan-[(methylethylen)bis(oxy)]dipropanol und Propan-1,2-diol | 50 - 100 | Acute Tox. 4, H332 / Skin Irrit. 2, H315 / Eye Irrit. 2, H319 / Resp. Sens. 1, H334 / Skin Sens. 1, H317 / Carc. 2, H351 / STOT SE 3, H335 / STOT RE 2, H373 |
| 53862-89-8 | Polymer | Icocyanic acid, polymethylenepolyphenylene ester, polymer with .alpha.-hydro.-omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)] | 25 - 50 | Acute Tox. 4, H332 / Skin Irrit. 2, H315 / Eye Irrit. 2, H319 / Resp. Sens. 1, H334 / Skin Sens. 1, H317 / Carc. 2, H351 / STOT SE 3, H335 / STOT RE 2, H373 |

REACH

| CAS No | Name | REACH registration number |
|-------------|--|---------------------------|
| 123714-19-2 | Diphenylmethan-4,4'-diisocyanat, oligomere Reaktionsprodukte mit Butan-1,2-diol, 2,4'-Diisocyanatodiphenylmethan-[(methylethylen)bis(oxy)]dipropanol und Propan-1,2-diol | 01-2119457025-44 |

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of inhalation

Ensure of fresh air.

Seek medical treatment immediately.

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

Do not induce vomiting.

Call for a doctor immediately.

Rinse out mouth thoroughly with water.

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

Foam

Dry powder

Gaseous fire-extinguishing substance

Carbon dioxide

Unsuitable extinguishing media
water

5.2. Special hazards arising from the substance or mixture

In case of fire formation of dangerous gases possible.

In the event of fire the following can be released:

Nitrogen oxides (NO_x)

Carbon monoxide (CO)

Carbon dioxide (CO₂)

Hydrogen cyanide (HCN)

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

Personal protection by wearing close-fitting protective clothing and breathing apparatus.

High risk of slipping due to leakage/spillage of product.

6.2. Environmental precautions

Do not discharge into the drains or bodies of water..

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).

Do not take up with sawdust or other combustible materials.

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.

No special measures necessary if used correctly.

Take the usual precautions when handling with chemicals.

General protective measures

Avoid contact with eyes and skin

Do not inhale gases/vapours/aerosols.

Hygiene measures

At work do not eat, drink and smoke.
Remove soiled or soaked clothing immediately.
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

Keep in closed original container.
Do not use containers, leads, pipes a.s.o. of copper or copper-containing alloys.
Use steel or stainless steel containers.

Advice on storage compatibility

Keep away from water.

Further information on storage conditions

Store closed container at cool and aired place.
Protect from frost.
Protect from atmospheric moisture and water

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

If ventilation insufficient, wear respiratory protection.

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

dark brown

Odour

characteristic

Odour threshold

not determined

Important health, safety and environmental information

| | Value | Temperature | at | Method | Remark |
|--|----------------------------|-------------|----|-------------------|-------------------|
| pH value | not applicable | | | | |
| Acid number | not applicable | | | | |
| boiling range | > 260 °C | | | | |
| melting point | not determined | | | | |
| Flash point | 200 °C | | | closed cup | |
| Vapourisation rate | not determined | | | | |
| Flammable (solid) | not applicable | | | | |
| Flammability (gas) | not applicable | | | | |
| Ignition temperature | > 600 °C | | | | |
| Self ignition temperature | no | | | | |
| Lower explosion limit | not applicable | | | | |
| Upper explosion limit | not applicable | | | | |
| Vapour pressure | < 1E-5 hPa | 20 °C | | | |
| Relative density | ca. 1,14 g/cm ³ | 23 °C | | DIN EN ISO 2811-1 | |
| Bulk density | not applicable | | | | |
| Vapour density | not applicable | | | | |
| Solubility in water | | | | | Reacts with water |
| Solubility/other | not determined | | | | |
| Partition coefficient n-octanol/water (log P O/W) | not determined | | | | |
| Decomposition temperature | No data available | | | | |
| Viscosity dynamic | ca. 230 mPa*s | 23 °C | | DIN EN ISO 2555 | |
| Solvent separation test | not determined | | | | |
| Solvent content | 0 % | | | | |

| | Value | Temperature | at | Method | Remark |
|-------------------------------|---------------------------|-------------|----|--------|--------|
| Water content | not applicable | | | | |
| Solids content | not applicable | | | | |
| Combustion value | not determined | | | | |
| Oxidising properties | no | | | | |
| Explosive properties | no | | | | |
| 9.2. Other information | No information available. | | | | |

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

Reaction with water, with formation of carbon dioxide.
Reactions with alcohols, amines, aqueous acids and alkalies.

10.5. Incompatible materials

Substances to avoid

Reactions with acids.
Reactions with water.
Reactions with alcohols.
Reactions with alkalies.
Reactions with amines.

10.6. Hazardous decomposition products

Carbon monoxide
Carbon dioxide
HCN
Nitrous oxides (NO_x)
Hydrocarbons

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 | > 5000 mg/kg | rat | | |
| LD50 acute dermal | > 5000 mg/kg | rabbit | | |
| LC50 acute inhalation | 0,49 mg/l (4 h) | rat | | |
| Skin irritation | irritant | | | |
| Eye irritation | irritant | | | |
| 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 information available.

Specific target organ toxicity (repeated exposure)

No information available.

Aspiration hazard

No information available.

Experiences made from practice

Sensitization through inhalation possible.
Sensitization through skin contact possible.

Irritates respiratory tract.
Irritates eyes and skin.

Additional information

The declarations of toxicology refer to main component.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicological effects

| | Value | Species | Method | Validation |
|-----------------|-------------------------|---------|--------|------------|
| Fish | LC50 > 1000 mg/l (96 h) | | | |
| Daphnia | EC50 > 1000 mg/l (48 h) | | | |
| Algae | not determined | | | |
| 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

The product can cause foaming in sewage treatment plants.

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 | | |

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

no

General regulation

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

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| Waste code No. | Name of waste |
|----------------|---|
| 07 02 08* | other still bottoms and reaction residues |

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 | - | - | - |
| 14.2. UN proper shipping name | - | - | - |
| 14.3. Transport hazard class(es) | - | - | - |
| 14.4. Packing group | - | - | - |
| 14.5. Environmental hazards | - | - | - |

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

No dangerous goods as defined by these transport regulations.

Marine transport IMDG

No dangerous goods as defined by these transport regulations.

Air transport ICAO/IATA-DGR

No dangerous goods as defined by these transport regulations.

Transport/further information

No dangerous goods as defined by the transport regulations - ADR/RID, IMDG, ICAO/IATA-DGR.

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

Work medicine Principles G27: "Isocyanate"

ZH 1/34 "Data Sheet: Polyurethane manufacture / Isocyanate (M 044)"

ZH 1/118 "Working with health hazard substances (for the workers) (M 050)"

MAL-Code: 00-5 (Denmark)

Water hazard class 1 Mixture-WGK

Decree for case of interference/remarks Accident decree, addendum II: not named.

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: 6.6

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).

H373 May cause damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).