# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

**Revision date:** 19 Jan 2021
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**Version:** 3

## PUR-O-STOP KATALYSATOR

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

### 1.1. Product identifier

**Trade name/designation:**

**PUR-O-STOP KATALYSATOR**

**UFI:**
HD2Y-DF3Q-M8KY-TH6V

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

No data available

### 1.3. Details of the supplier of the safety data sheet

**Supplier (manufacturer/importer/only representative/downstream user/distributor):**

**TPH Bausysteme GmbH**
Nordportbogen 8
22848 Norderstedt
Germany

**Telephone:** +49 40 52 90 66 78-0
**Telefax:** +49 40 52 90 66 78-78
**E-mail:** info@tph-bausysteme.com
**Website:** www.tph-bausysteme.com
**E-mail (competent person):** sdb-info@tph-bausysteme.com

### 1.4. Emergency telephone number

24h: GIZ-Nord +49 551 / 19240

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

| Hazard classes and hazard categories | Hazard statements | Classification pro cedure |
|---|---|---|
| Skin corrosion/irritation *(Skin Corr. 1B)* | H314: Causes severe skin burns and eye damage. | Calculation method. |

**Additional information:**
The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

### 2.2. Label elements

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

**Hazard pictograms:**

**GHS05**
Corrosion

**Signal word:** Danger

**Hazard components for labelling:**
bis(2-dimethylaminoethyl)(methyl)amine

| hazard statements for health hazards | |
|---|---|
| H314 | Causes severe skin burns and eye damage. |

**Supplemental hazard information:** -

| Precautionary statements Response | |
|---|---|
| P301 + P330 + P331 | IF SWALLOWED: rinse mouth. Do NOT induce vomiting. |
| P303 + P361 + P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. |
| 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. |

| Precautionary statements Disposal | |
|---|---|
| P501 | Dispose of contents/container to an appropriate recycling or disposal facility. |

### 2.3. Other hazards
No data available

## SECTION 3: Composition / information on ingredients

### 3.2. Mixtures
**Hazardous ingredients / Hazardous impurities / Stabilisers:**

| product identifiers | Substance name<br>Classification according to Regulation (EC) No 1272/2008 [CLP] | Concen-tration |
|---|---|---|
| **CAS No.:** 3030-47-5<br>**EC No.:** 221-201-1 | **bis(2-dimethylaminoethyl)(methyl)amine**<br>Acute Tox. 3, Acute Tox. 4, Skin Corr. 1B<br>  **Danger** H302-H311-H314 | 2.5 – ≤ 10 weight-% |

Full text of H- and EUH-phrases: see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures
**General information:**
In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended. Warning First aider: Pay attention to self-protection!

**Following inhalation:**
Provide fresh air.

**In case of skin contact:**
After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing. Get immediate medical advice/attention.

**After eye contact:**
In case of contact with eyes, rinse immediately thoroughly with plenty of edible oil and consult an ophthalmologist.

**Following ingestion:**
Rinse mouth. Let water be drunken in little sips (dilution effect). Get medical advice/attention if you feel unwell. Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Get immediate medical advice/attention.

**Self-protection of the first aider:**
Use personal protection equipment.

### 4.2. Most important symptoms and effects, both acute and delayed
Skin corrosion/irritation

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

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media
**Suitable extinguishing media:**
alcohol resistant foam Extinguishing powder Carbon dioxide (CO2) Water spray jet

### 5.2. Special hazards arising from the substance or mixture
**Hazardous combustion products:**
In case of fire: Gases/vapours, toxic

### 5.3. Advice for firefighters
Wear a self-contained breathing apparatus and chemical protective clothing.

### 5.4. Additional information
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures
#### 6.1.1. For non-emergency personnel
**Personal precautions:**
Remove persons to safety.

**Protective equipment:**
Wear protective gloves/protective clothing/eye protection/face protection.

#### 6.1.2. For emergency responders
**Personal protection equipment:**
Personal protection equipment: see section 8

### 6.2. Environmental precautions
Do not allow to enter into surface water or drains.

### 6.3. Methods and material for containment and cleaning up
**For containment:**
Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

**For cleaning up:**
Solvents/Thinner

### 6.4. Reference to other sections
Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

### 6.5. Additional information
Use appropriate container to avoid environmental contamination.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling
**Protective measures**

**Advices on safe handling:**
Wear personal protection equipment (refer to section 8).

**Advices on general occupational hygiene**
When using do not eat, drink or smoke. Avoid contact with eyes and skin.

### 7.2. Conditions for safe storage, including any incompatibilities

**Technical measures and storage conditions:**
Keep container tightly closed in a cool, well-ventilated place.

### 7.3. Specific end use(s)

No data available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. Occupational exposure limit values

| Limit value type (country of origin) | Substance name | ① Long-term occupational exposure limit value<br>② short-term occupational exposure limit value<br>③ Instantaneous value<br>④ Monitoring and observation processes<br>⑤ Remark |
|---|---|---|
| TRGS 900 (DE) | Hydrocarbons, TRGS 900 | ① 0 mg/m³<br>⑤ Mass fraction (wt %): 0 |

#### 8.1.2. Biological limit values

No data available

#### 8.1.3. DNEL-/PNEC-values

No data available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

No data available

#### 8.2.2. Personal protection equipment

**Eye/face protection:**
Eye glasses with side protection DIN EN 166

**Skin protection:**
Tested protective gloves must be worn EN ISO 374 Suitable material: Breakthrough time: min
In the case of wanting to use the gloves again, clean them before taking off and air them well.
Breakthrough times and swelling properties of the material must be taken into consideration.

**Respiratory protection:**
Filtering device with filter or ventilator filtering device of type: A A

#### 8.2.3. Environmental exposure controls

No data available

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**Appearance**
**Physical state:** Liquid
**Colour:** light yellow
**Odour:** Amines

**Safety relevant basis data**

| parameter | | at °C | Method | Remark |
|---|---|---|---|---|
| pH | < 10.5 | | | |
| Melting point | *not determined* | | | |
| Freezing point | *not determined* | | | |

| parameter | | at °C | Method | Remark |
|---|---|---|---|---|
| Initial boiling point and boiling range | 198 °C | | | |
| Decomposition temperature | *not determined* | | | |
| Flash point | > 102 °C | | | |
| Evaporation rate | *not determined* | | | |
| Auto-ignition temperature | *not determined* | | | |
| Upper/lower flammability or explosive limits | *not determined* | | | |
| Vapour pressure | *not determined* | | | |
| Vapour density | *not determined* | | | |
| Density | 0.91 g/cm³ | 23 °C | DIN EN ISO 2811-1 | |
| Bulk density | *not determined* | | | |
| Water solubility | Immiscible | | | |
| Partition coefficient: n-octanol/ water | *not determined* | | | |
| Dynamic viscosity | *not determined* | | | |
| Kinematic viscosity | *not determined* | | | |

### 9.2. Other information
No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity
No data available

### 10.2. Chemical stability
No data available

### 10.3. Possibility of hazardous reactions
No data available

### 10.4. Conditions to avoid
No data available

### 10.5. Incompatible materials
No data available

### 10.6. Hazardous decomposition products
No data available

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

| Substance name | Toxicological information |
|---|---|
| bis(2-dimethylaminoethyl)(methyl)amine<br>CAS No.: 3030-47-5<br>EC No.: 221-201-1 | **$LD_{50}$ oral:**<br>1,330 mg/kg (Rat)<br>**$LD_{50}$ dermal:**<br>>200 – 1,000 mg/kg (Rabbit)<br>**$LC_{50}$ Acute inhalation toxicity (vapour):**<br>2.05 mg/l 6 h (Rat) |

**Acute oral toxicity:**
Based on available data, the classification criteria are not met.

**Acute dermal toxicity:**
Based on available data, the classification criteria are not met.

**Acute inhalation toxicity:**
Based on available data, the classification criteria are not met.

**Skin corrosion/irritation:**
Causes severe skin burns and eye damage.

**Serious eye damage/irritation:**
Based on available data, the classification criteria are not met.

**Respiratory or skin sensitisation:**
Based on available data, the classification criteria are not met.

**Germ cell mutagenicity:**
Based on available data, the classification criteria are not met.

**Carcinogenicity:**
Based on available data, the classification criteria are not met.

**Reproductive toxicity:**
Based on available data, the classification criteria are not met.

**STOT-single exposure:**
Based on available data, the classification criteria are not met.

**STOT-repeated exposure:**
Based on available data, the classification criteria are not met.

**Aspiration hazard:**
Based on available data, the classification criteria are not met.

**Additional information:**
No data available

## SECTION 12: Ecological information

### 12.1. Toxicity

| Substance name | Toxicological information |
|---|---|
| bis(2-dimethylaminoethyl)(methyl)amine<br>CAS No.: 3030-47-5<br>EC No.: 221-201-1 | **$LC_{50}$:** 220 mg/l 4 d (fish, Leuciscus idus (golden orfe)) DIN 38412 / part 15<br>**$LC_{50}$:** 157 mg/l 4 d (fish, Oncorhynchus mykiss (Rainbow trout)) OECD 203<br>**$EC_{50}$:** 54.9 mg/l 2 d (crustaceans, Daphnia magna (Big water flea))<br>**NOEC:** 1,000 mg/l (Activated sludge) 0,5h OECD 209 |

### 12.2. Persistence and degradability
No data available

### 12.3. Bioaccumulative potential
No data available

### 12.4. Mobility in soil
No data available

### 12.5. Results of PBT and vPvB assessment

| Substance name | Results of PBT and vPvB assessment |
|---|---|
| bis(2-dimethylaminoethyl)(methyl)amine<br>CAS No.: 3030-47-5<br>EC No.: 221-201-1 | The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII. |

### 12.6. Other adverse effects
No data available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### 13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

**Waste code product:**

| | |
|---|---|
| 07 01 08 * | other still bottoms and reaction residues |

*: Evidence for disposal must be provided.

**Waste treatment options**

**Appropriate disposal / Product:**

Consult the appropriate local waste disposal expert about waste disposal.

## SECTION 14: Transport information

| Land transport (ADR/RID) | Inland waterway craft (ADN) | Sea transport (IMDG) | Air transport (ICAO-TI / IATA-DGR) |
|---|---|---|---|
| **14.1. UN-No.** | | | |
| UN 2735 | UN 2735 | UN 2735 | UN 2735 |
| **14.2. UN proper shipping name** | | | |
| AMINES, LIQUID, CORROSIVE, N.O.S. (bis(2-dimethylamino ethyl)(methyl)amine) | AMINES, LIQUID, CORROSIVE, N.O.S. (bis(2-dimethylamino ethyl)(methyl)amine) | AMINES, LIQUID, CORROSIVE, N.O.S. (bis(2-dimethylamino ethyl)(methyl)amine) | AMINES, LIQUID, CORROSIVE, N.O.S. (bis(2-dimethylamino ethyl)(methyl)amine) |
| **14.3. Transport hazard class(es)** | | | |
|  8 |  8 |  8 |  8 |
| **14.4. Packing group** | | | |
| II | II | II | II |
| **14.5. Environmental hazards** | | | |
| No | No | No | No |

| Land transport (ADR/RID) | Inland waterway craft (ADN) | Sea transport (IMDG) | Air transport (ICAO-TI / IATA-DGR) |
|---|---|---|---|
| **14.6. Special precautions for user** | | | |
| **Special provisions:** 274<br>**Limited quantity (LQ):** 1 L<br>**Excepted Quantities (EQ):** E2<br>**Hazard identification number (Kemler No.):** 80<br>**Classification code:** C7<br>**tunnel restriction code:** (E)<br>**Remark:** | **Special provisions:** 274<br>**Limited quantity (LQ):** 1 L<br>**Excepted Quantities (EQ):** E2<br>**Classification code:** C7<br>**Remark:** | **Special provisions:** 274<br>**Limited quantity (LQ):** 1 L<br>**Excepted Quantities (EQ):** E2<br>**EmS-No.:** F-A, S-B<br>**Remark:** | **Special provisions:** A3<br>**Limited quantity (LQ):** Y840<br>**Excepted Quantities (EQ):** E2<br>**Remark:** |

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
No data available

## SECTION 15: Regulatory information

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

#### 15.1.1. EU legislation
No data available

#### 15.1.2. National regulations

**[DE] National regulations**

**Water hazard class**

**WGK:**
2 - deutlich wassergefährdend

**Other regulations, restrictions and prohibition regulations**
ZH 1/118 "Umgang mit gesundheitsgefährlichen Stoffen (für den Beschäftigten) (M 050)"
ZH 1/129 "Merkblatt: Reizende Stoffe/Ätzende Stoffe (M 004)"

**[DK] National regulations**

**Other regulations, restrictions and prohibition regulations**
MAL-kode (Denmark): 3-3

### 15.2. Chemical Safety Assessment
No data available

## SECTION 16: Other information

### 16.1. Indication of changes
No data available

### 16.2. Abbreviations and acronyms
No data available

### 16.3. Key literature references and sources for data
No data available

### 16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

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

| Hazard classes and hazard categories | Hazard statements | Classification pro cedure |
|---|---|---|
| Skin corrosion/irritation *(Skin Corr. 1B)* | H314: Causes severe skin burns and eye damage. | Calculation method. |

### 16.5. Relevant R-, H- and EUH-phrases (Number and full text)

| Hazard statements | |
|---|---|
| H302 | Harmful if swallowed. |
| H311 | Toxic in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |

### 16.6. Training advice
No data available

### 16.7. Additional information
No data available