

# SAFETY DATA SHEET

according to 1907/2006/EC, Article 3

Version no. : 2.0  
Prepared on : 24.04.2026  
Revised on : -

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

### 1.1 Product identifiers

**Product name** Benzyldimethylstearylammmonium Chloride  
**Product Number** PSR40030  
**Brand** PureSynth research chemicals  
**CAS No.** 122-19-0

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

**Identified uses** : Laboratory chemicals

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

**Company** PureSynth Research Chemicals GmbH.  
64683 Einhausen Marie-Curie-Straße. 3, Germany

### 1.4 Emergency telephone number

**Worldwide Helpline No.:** 1800-8908-260

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008**

Acute toxicity, Oral (Category 4), H302  
Serious eye damage (Category 1), H318  
Short-term (acute) aquatic hazard (Category 1), H400  
Long-term (chronic) aquatic hazard (Category 1), H410  
For the full text of the H-Statements mentioned in this Section, see Section 16..

### 2.2 Label elements

**Labelling according Regulation (EC) No 1272/2008**

**Pictogram**



**Signal word** Danger

**Hazard statement(s)**

H302 Harmful if swallowed.  
H318 Causes serious eye damage.  
H410 Very toxic to aquatic life with long lasting effects

#### Precautionary statement(s)

|                                |                                                                                                                                  |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| P264                           | Wash skin thoroughly after handling.                                                                                             |
| P273                           | Avoid release to the environment.                                                                                                |
| P280                           | Wear protective gloves/ eye protection/ face protection.                                                                         |
| P301 + P312                    | IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.                                                                   |
| P302 + P352                    | IF ON SKIN: Wash with plenty of water.                                                                                           |
| P305 + P351 + P338             | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P391                           | Collect spillage.                                                                                                                |
| Supplemental Hazard Statements | none                                                                                                                             |

#### 2.3 Other hazards:

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### SECTION 3: Composition / information on ingredients

#### 3.1 Substances

| Common names & Synonyms                     | Mol. formula                                                                                                     | CAS number    |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------|---------------|
| benzyltrimethyl(octadecyl)ammonium chloride | C <sub>27</sub> H <sub>50</sub> N <sub>1</sub> Cl <sub>1</sub>                                                   | 122-19-0      |
| Component                                   | Classification                                                                                                   | Concentration |
| Stearyltrimethylbenzylammonium chloride     | Acute Tox. 4; Eye Dam. 1; Aquatic Acute 1; Aquatic Chronic 1; H302, H318, H400, H410 M-Factor - Aquatic Acute: 1 | <= 100 %      |

### SECTION 4: First aid measures

#### Description of first aid measures

|                                                                            |                                                                                                                     |
|----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| General advice                                                             | Show this safety data sheet to the doctor in attendance.                                                            |
| If inhaled                                                                 | After inhalation: fresh air.                                                                                        |
| In case of skin contact                                                    | In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.             |
| In case of eye contact                                                     | After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.                  |
| If swallowed                                                               | After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.                   |
| Most important symptoms and effects, both acute and delayed                | The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11 |
| Indication of any immediate medical attention and special treatment needed | No data available                                                                                                   |

## SECTION 5: Firefighting measures

|                                                              |                                                                                                                                                                                                                                                                                                                              |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Extinguishing media</b>                                   | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.                                                                                                                                                                                                                      |
| Suitable extinguishing media                                 |                                                                                                                                                                                                                                                                                                                              |
| Unsuitable extinguishing media                               | For this substance/mixture no limitations of extinguishing agents are given                                                                                                                                                                                                                                                  |
| <b>Special hazards arising from the substance or mixture</b> | Not combustible                                                                                                                                                                                                                                                                                                              |
| Specific hazards during fire fighting                        | Fire may cause evolution of: Sulphur oxides metal fumes Ambient fire may liberate hazardous vapours.                                                                                                                                                                                                                         |
| Hazardous combustion products                                | Sulphur oxides<br>Copper oxides                                                                                                                                                                                                                                                                                              |
| <b>Advice for firefighters</b>                               | Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing. Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system. |
| <b>Further information</b>                                   |                                                                                                                                                                                                                                                                                                                              |

## SECTION 6: Accidental release measures

|                                                                            |                                                                                                                                                                                                                                                 |
|----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal precautions, protective equipment and emergency procedures</b> | Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.<br>For personal protection see section 8. |
| <b>Environmental precautions</b>                                           | Do not let product enter drains.                                                                                                                                                                                                                |
| <b>Methods and materials for containment and cleaning up</b>               | Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®).<br>Dispose of properly. Clean up affected area.                     |
| <b>Reference to other sections</b>                                         | For disposal see section 13.                                                                                                                                                                                                                    |

## SECTION 7: Handling and storage

|                                                                     |                                                                                    |
|---------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>Precautions for safe handling</b>                                | For precautions see section 2.2.                                                   |
| <b>Conditions for safe storage, including any incompatibilities</b> | Tightly closed. Dry.<br>Storage class (TRGS 510): 11, Combustible Solids           |
| <b>Specific end use(s)</b>                                          | Apart from the uses mentioned in section 1.2 no other specific uses are stipulated |

## SECTION 8: Exposure controls / Personal protection

### Control parameters

### Exposure controls

### Personal protective equipment:

#### Eye / face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).  
Tightly fitting safety goggles

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: 480 min

Material tested:KCL 741 Dermatril® L

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: 480 min

Material tested:KCL 741 Dermatril® L

#### Skin protection

#### Body Protection

Protective clothing

required when dusts are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.  
Recommended Filter type: Filter type P2

#### Respiratory protection

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

#### Control of environmental exposure

Do not let product enter drains.

## SECTION 9: Physical and chemical properties

|                                   |                                                |
|-----------------------------------|------------------------------------------------|
| <b>Appearance</b>                 | Form: Solid<br>Color: white                    |
| <b>Odour</b>                      | No data available                              |
| <b>pH - Value</b>                 | No data available                              |
| <b>Density</b>                    | No data available                              |
| <b>Boiling Point</b>              | No data available                              |
| <b>Melting Point</b>              | 64.4 °C at 1.013 hPa - OECD Test Guideline 102 |
| <b>Solubility in water</b>        | 20.8 g/l at 20 °C - OECD Test Guideline 105    |
| <b>Flash point</b>                | No data available                              |
| <b>Vapour pressure</b>            | No data available                              |
| <b>Auto -ignition temperature</b> | No data available                              |

|                                                |                   |
|------------------------------------------------|-------------------|
| Vapour density                                 | No data available |
| Flammability (solid, gas)                      | No data available |
| Evaporation rate                               | No data available |
| Partition coefficient: n- octanol / water      | No data available |
| Viscosity                                      | No data available |
| Explosive properties                           | No data available |
| Upper / lower flammability or explosive limits | No data available |
| Oxidizing properties                           | None              |

#### Other safety information:

Surface tension 35,2 mN/m at 20 °C  
- OECD Test Guideline 115

### SECTION 10: Stability and reactivity

|                                    |                                                                                                                                                                                           |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                         | The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed. |
| Chemical stability                 | The product is chemically stable under standard ambient conditions (room temperature) .                                                                                                   |
| Possibility of hazardous reactions | .                                                                                                                                                                                         |
| Hazardous reactions :              | Violent reactions possible with: Strong oxidizing agents                                                                                                                                  |
| Condition to avoid                 | No information available                                                                                                                                                                  |
| Incompatible materials             | No information available                                                                                                                                                                  |
| Hazardous decomposition products   | In the event of fire: see section 5                                                                                                                                                       |

### SECTION 11: Toxicological

|                                                                      |                                                                                                                                                                                                                                                |
|----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Information                                                          |                                                                                                                                                                                                                                                |
| Mixture                                                              |                                                                                                                                                                                                                                                |
| Acute toxicity                                                       | LD50 Oral - Rat - male and female - 795 mg/kg (OECD Test Guideline 401) Acute toxicity estimate Oral - 795 mg/kg (Calculation method)<br>Inhalation: No data available Dermal: No data available                                               |
| Skin corrosion/irritation                                            | Skin - In vitro study Result: No skin irritation (OECD Test Guideline 439)                                                                                                                                                                     |
| Serious eye damage/eye irritation                                    | Eyes - In vitro study (OECD Test Guideline 492)                                                                                                                                                                                                |
| Respiratory or skin sensitization                                    | - Guinea pig<br>Result: negative (Regulation (EC) No. 440/2008, Annex, B.6)<br>Test Type: Ames test Test system: Escherichia coli Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative |
| Germ cell mutagenicity                                               |                                                                                                                                                                                                                                                |
| Carcinogenicity                                                      | No data available                                                                                                                                                                                                                              |
| Reproductive toxicity                                                | No data available                                                                                                                                                                                                                              |
| Specific target organ toxicity - single exposure                     | No data available                                                                                                                                                                                                                              |
| Specific target organ toxicity - repeated exposure Aspiration hazard | No data available                                                                                                                                                                                                                              |
| Additional Information                                               |                                                                                                                                                                                                                                                |
| Endocrine disrupting properties                                      |                                                                                                                                                                                                                                                |
| Assessment                                                           | The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission                                          |

Regulation (EU) 2018/605 at levels of 0.1% or higher. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Aspiration hazard**

No data available

## SECTION 12: Ecological information

**Toxicity**

**Mixture**

Toxicity to fish

static test LC50 - Oncorhynchus mykiss (rainbow trout) - 0,85 mg/l - 96 h (OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates

static test - Daphnia magna (Water flea) - 0,016 mg/l (Regulation (EC) No. 440/2008, Annex, C.2)

Toxicity to algae

static test EC50 - Raphidocelis subcapitata (freshwater green alga) - 96 h (OECD Test Guideline 201)

**Persistence and degradability**

**Biodegradability :**

aerobic - Exposure time 28 d Result: 64 % - Readily biodegradable. (OECD Test Guideline 301D)

**Bioaccumulative potential**

**Components:**

**Copper(II) sulphate:**

Partition coefficient: n-octanol/water

Remarks: Not applicable for inorganic substances

**Mobility in soil**

No data available

**Results of PBT and vPvB assessment**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**Endocrine disrupting properties**

**Assessment**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**Other adverse effects**

No data available

## SECTION 13: Disposal considerations

**Waste treatment methods**

**Products**

No data available

**Contaminated packaging**

Dispose of as unused product.

## SECTION 14: Transport information

|                  | UN no. | UN proper shipping name                  | Hazard Class(es) | Packaging group | Marine Pollutant |
|------------------|--------|------------------------------------------|------------------|-----------------|------------------|
| <b>ADR / RID</b> | 3077   | Benzyl dimethylstearyl ammonium chloride | 9                | III             | Yes              |
| <b>IMDG</b>      | 3077   | Benzyl dimethylstearyl ammonium chloride | 9                | III             | Yes              |
| <b>IATA</b>      | 3077   | Benzyl dimethylstearyl ammonium chloride | 9                | III             | Yes              |

## SECTION 15: Regulatory information

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

#### National legislation

Seveso III: Directive 2012/18/EU of the  
European Parliament and of the Council on  
the control of major-accident hazards  
involving dangerous substances

E1 ENVIRONMENTAL HAZARDS

#### Other regulations

Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable. Take note of Dir 94/33/EC on the protection of young people at work.

Take note of Dir 94/33/EC on the protection of young people at work.

#### Chemical safety assessment

For this product a chemical safety assessment was not carried out.

## SECTION 16: Other information

The information in this SDS is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. The user must be determined suitability of this information for his application.