

# Safety data sheet

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according to 1907/2006/EC, Article 31

Printing date 18.11.2021 Revision: 18.11.2021 Version number 3.00 (replaces version 2.02)

# SECTION 1: Identification of the substance/mixture and of the company/ undertaking · 1.1 Product identifier · Trade name: <u>Puromycin dihydrochloride</u> · Article number: A2856 · CAS Number: 58-58-2 · EC number:

- 200-387-8
- **Application of the substance / the mixture** For lab use only. Not for drug, household or other uses. Laboratory chemicals
- · 1.3 Details of the supplier of the safety data sheet
- **Manufacturer/Supplier:** AppliChem GmbH Ottoweg 4 D-64291 Darmstadt

Tel.: +49 (0)6151 93570 Fax.: +49 (0)6151 935711 msds@applichem.com

- Further information obtainable from: Dept. Compliance
- 1.4 Emergency telephone number: +49(0)6151 93570 (Inside normal buisness hours)

# **SECTION 2: Hazards identification**

· 2.1 Classification of the substance or mixture

- Classification according to Regulation (EC) No 1272/2008 Acute Tox. 4 H302 Harmful if swallowed.
- 2.2 Label elements
   Labelling according to Regulation (EC) No 1272/2008
   The substance is classified and labelled according to the CLP regulation.
- · Hazard pictograms



- · Signal word Warning
- · Hazard statements
- H302 Harmful if swallowed.
- Precautionary statements
  - P264 Wash thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

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#### Trade name: Puromycin dihydrochloride

(Contd. of page 1) P330 Rinse mouth. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

# 2.3 Other hazards

- Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · **vPvB:** Not applicable.

#### **SECTION 3: Composition/information on ingredients**

#### · 3.1 Substances

- · CAS No. Description
- 58-58-2 Puromycin dihydrochloride
- · Identification number(s)
- · EC number: 200-387-8

#### **SECTION 4: First aid measures**

#### · 4.1 Description of first aid measures

· General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- Involve doctor immediately.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact:

Immediately wash with water and soap and rinse thoroughly. Immediately remove any clothing soiled by the product.

If skin irritation continues, consult a doctor.

· After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

• After swallowing:

make victim drink water (maximum of 2 drinking glasses)

- Call a doctor immediately.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically and supportively.

## **SECTION 5: Firefighting measures**

#### · 5.1 Extinguishing media

• Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released: Nitrogen oxides (NOx) Carbon monoxide and carbon dioxide Hydrogen chloride (HCI) Phosgene gas Non-combustible.

• 5.3 Advice for firefighters

• **Protective equipment:** Wear self-contained respiratory protective device.

· Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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### **SECTION 6: Accidental release measures**

- 6.1 Personal precautions, protective equipment and emergency procedures Avoid formation of dust. Avoid substance contact. Ensure adequate ventilation
- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:
- Pick up mechanically.
- Avoid formation of dust.

Dispose contaminated material as waste according to item 13.

Clean up affected area.

6.4 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 disposal information.

# **SECTION 7: Handling and storage**

• **7.1 Precautions for safe handling** Any unavoidable deposit of dust must be regularly removed. • **Information about fire - and explosion protection:** The product is not flammable.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Store under lock and key and with access restricted to technical experts or their assistants only. Keep container sealed.
- · Recommended storage temperature: -20°C
- · Storage class: 13
- · 7.3 Specific end use(s) No further relevant information available.

## **SECTION 8: Exposure controls/personal protection**

- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists valid during the making were used as basis.

#### · 8.2 Exposure controls

- Appropriate engineering controls No further data; see item 7.
- · Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:
- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing
- Wash hands before breaks and at the end of work.
- Vacuum clean contaminated clothing. Do not blow or brush off contamination.
- · Respiratory protection:

Required when dusts are generated.

- Filter P1
- · Hand protection

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• 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.

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| Penetration time of glove material<br>The exact break through time has to be four   | nd out by the manufacturer of the protective gloves                                       |
| has to be observed.   |   |
| For the permanent contact gloves made of  | the following materials are suitable:   |
| Nitrile rubber, NBR Recommended thickness of the material: $\geq 0$ .   | 11 mm   |
| Value for the permeation: Level $\geq$ 480 min  |   |
| As protection from splashes gloves made   | of the following materials are suitable:  |
| Nitrile rubber, NBR   | -   |
| Recommended thickness of the material: $\ge 0$ .<br>Value for the permeation: Level $\ge 480$ min   | 11 mm   |
| <b>Eye/face protection</b> Safety glasses   |   |
| Body protection: Use protective suit.   |   |
| · · · · · · · · · · · · · · · · · · ·   |   |
| <b>SECTION 9: Physical and chemical</b>   | properties  |
| 9.1 Information on basic physical and cher  | nical properties  |
| General Information   |   |
| Physical state<br>Colour:   | Solid<br>Whitish  |
| Odour:  | Characteristic  |
| Odour threshold:  | Not determined.   |
| Melting point/freezing point:   | 180-195 °C  |
| Boiling point or initial boiling point and bo   | iling   |
| range   | Undetermined.   |
| Flammability  | Product is not flammable.   |
| Lower and upper explosion limit<br>Lower:   | Not determined.   |
| Upper:  | Not determined.   |
| Flash point:  | Not applicable.   |
| Auto-ignition temperature:  | Not determined.   |
| Decomposition temperature:  | Not determined.   |
| pH  | Not applicable.   |
| Viscosity:  | Nataniasha  |
| Kinematic viscosity<br>Dynamic:   | Not applicable.<br>Not applicable.  |
| Partition coefficient n-octanol/water (log va   |   |
| Vapour pressure:  | Not applicable.   |
| Density and/or relative density   |   |
| Density:  | Not determined.   |
| Relative density  | Not determined.   |
| Vapour density  | Not applicable.   |
|   |   |
| 9.2 Other information   |   |
| Appearance:   | Powder  |
| Appearance:<br>Form:  | Powder<br>ealth   |
| Appearance:   |   |
| Appearance:<br>Form:<br>Important information on protection of he<br>and environment, and on safety.<br>Explosive properties:   |   |
| Appearance:<br>Form:<br>Important information on protection of he<br>and environment, and on safety.<br>Explosive properties:<br>Change in condition  | ealth<br>Product does not present an explosion hazard.                                    |
| Appearance:<br>Form:<br>Important information on protection of he<br>and environment, and on safety.<br>Explosive properties:   | ealth   |
| Appearance:<br>Form:<br>Important information on protection of he<br>and environment, and on safety.<br>Explosive properties:<br>Change in condition<br>Evaporation rate<br>Information with regard to physical ha                          | ealth<br>Product does not present an explosion hazard.<br>Not applicable.                 |
| Appearance:<br>Form:<br>Important information on protection of he<br>and environment, and on safety.<br>Explosive properties:<br>Change in condition<br>Evaporation rate<br>Information with regard to physical has<br>classes              | ealth<br>Product does not present an explosion hazard.<br>Not applicable.<br>zard         |
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| Appearance:<br>Form:<br>Important information on protection of he<br>and environment, and on safety.<br>Explosive properties:<br>Change in condition<br>Evaporation rate<br>Information with regard to physical has<br>classes              | ealth<br>Product does not present an explosion hazard.<br>Not applicable.<br>zard         |

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|---|------|-------------------|
| · Gases under pressure                  | Void |                   |
| Flammable liquids                       | Void |                   |
| Flammable solids                        | Void |                   |
| · Self-reactive substances and mixtures | Void |                   |
| · Pyrophoric liquids                    | Void |                   |
| Pyrophoric solids                       | Void |                   |
| Self-heating substances and mixtures    | Void |                   |
| · Substances and mixtures, which emit   |      |                   |
| flammable gases in contact with water   | Void |                   |
| · Oxidising liquids                     | Void |                   |
| Oxidising solids                        | Void |                   |
| · Organic peroxides                     | Void |                   |
| · Corrosive to metals                   | Void |                   |
| · Desensitised explosives               | Void |                   |

## **SECTION 10: Stability and reactivity**

• 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

• Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

• 10.3 Possibility of hazardous reactions No dangerous reactions known.

- **10.4 Conditions to avoid** nitrosing agents heating Heating
- · 10.5 Incompatible materials:

strong reducing agents

strong oxidants

• **10.6 Hazardous decomposition products:** In the event of fire: See chapter 5

### **SECTION 11: Toxicological information**

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Harmful if swallowed.
- LD/LC50 values relevant for classification: Quantitative data on the toxicological effect of this product are not available.
  - Value Species
- Oral LD50 720 mg/kg (mouse)
- · Skin corrosion/irritation No data available
- · Serious eye damage/irritation
- · After inhalation: No irritant effect.
- · 11.2 Information on other hazards
- · Endocrine disrupting properties Substance is not listed.

Type

# **SECTION 12: Ecological information**

· 12.1 Toxicity

· Components

- · Aquatic toxicity: No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.

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| de name: Puromycin dihydrochloride   |  |
|--|--|
| <ul> <li>vPvB: Not applicable.</li> <li>12.6 Endocrine disrupting properties<br/>The product does not contain substances</li> <li>12.7 Other adverse effects</li> <li>Additional ecological information:</li> <li>General notes:<br/>Do not allow product to reach ground wat<br/>Water hazard class 1 (German Regulatio)</li> </ul>   |  |
| SECTION 13: Disposal consider  | ations   |
| Must not be disposed together with house   | ance with the respective national regulations.<br>ehold garbage. Do not allow product to reach sewage systen |
| <ul> <li>Uncleaned packaging:</li> <li>Recommendation:</li> <li>Disposal must be made according to offic</li> <li>Packagings that may not be cleansed are</li> </ul>   | cial regulations.<br>to be disposed of in the same manner as the product.                                    |
| Recommendation:<br>Disposal must be made according to offic  | e to be disposed of in the same manner as the product.   |
| Recommendation:<br>Disposal must be made according to offic<br>Packagings that may not be cleansed are   | e to be disposed of in the same manner as the product.   |
| Recommendation:<br>Disposal must be made according to offic<br>Packagings that may not be cleansed are<br>SECTION 14: Transport informa<br>14.1 UN number or ID number<br>ADR, ADN, IMDG, IATA<br>14.2 UN proper shipping name   | e to be disposed of in the same manner as the product.   |
| Recommendation:<br>Disposal must be made according to offic<br>Packagings that may not be cleansed are<br>SECTION 14: Transport informa<br>· 14.1 UN number or ID number   | tion<br>Void   |
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# **SECTION 15: Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I Substance is not listed.
- National regulations:
- · Other regulations, limitations and prohibitive regulations
- Substances of very high concern (SVHC) according to REACH, Article 57 Substance is not listed.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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#### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Dept. Compliance

#### Abbreviations and acronyms:

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 GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity – Category 4 \* **\* Data compared to the previous version altered.**