

Puromycin Dihydrochloride SDS | MSDS

1.PRODUCT AND COMPANY IDENTIFICATION

Product identifier

- **Product Name:** Puromycin Dihydrochloride
- **Catalog Number:** S7417
- **CAS Number:** 58-58-2
- **IUPAC Name:**
3'-[[[(2S)-2-amino-3-(4-methoxyphenyl)-1-oxopropyl]amino]-3'-deoxy-N,N-dimethyl-adenosine,hydrochloride (1:2)

Relevant identified uses and uses advised against

- **Identified uses:** For research and development use only; laboratory chemicals; manufacture of substances.
- **Uses advised against:** Not for pharmaceutical, household, or other unapproved uses.

Details of the supplier

- **Company :** Selleck Chemicals
- **TollFree :** +1 877 796-6397
- **Tel :** +1 832 582-8158
- **Fax :** +1 832 582-8590

Emergency telephone number

- **Emergency phone #:** +1 832 582-8158

2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity (Oral): Category 4

GHS label elements

Pictogram:



Signal Word: Warning

Hazard Statements: H302 Harmful if swallowed.

Precautionary statements:

- **Prevention:**

- P264 Wash skin thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.

• **Response:**

• P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.

• **Disposal:**

- P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture: Substance

CAS-No.: 58-58-2

Components

• **Chemical name:**

3'-[[[(2S)-2-amino-3-(4-methoxyphenyl)-1-oxopropyl]amino]-3'-deoxy-N,N-dimethyl-adenosine,hydrochloride (1:2)

• **CAS No.:** 58-58-2

• **Concentration (% w/w):** ≥ 90 - ≤ 100

• **Trade secret:** Actual concentration is withheld as a trade secret.

4. 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: 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. 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) and/or in section 11.

Protection of first-aiders: For personal protection see section 8.

Notes to physician: N/A.

5. FIREFIGHTING MEASURES

Unsuitable extinguishing media: For this substance/mixture no limitations of extinguishing agents are given.

Hazardous combustion products: Carbon oxides, Nitrogen oxides (NO_x), Hydrogen chloride gas.

Specific extinguishing methods: N/A.

Further information: Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

Special protective equipment for fire-fighters: In the event of fire, wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

- **Advice for non-emergency personnel:** Avoid inhalation of powder. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.
- **Advice for emergency responders:** For personal protection see section 8.

Environmental precautions: Do not let product enter drains.

Methods and materials for containment and cleaning up: Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of powder.

7. HANDLING AND STORAGE

Precautions for safe handling: For precautions see section 2.

Further information on storage conditions: Tightly closed. Dry.

Storage class: 11, Combustible Solids.

Recommended storage temperature: -4 °F / -20 °C.

Further information on storage stability: Keep in a dry place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters: Contains no substances with occupational exposure limit values.

Engineering measures: N/A.

Personal protective equipment:

- **Respiratory protection:** Required when powder is generated. Recommendations are based on DIN EN 143, DIN 14387, and other accompanying standards.
- **Recommended Filter type:** Filter type P2.
- **Hand protection:** Handle with gloves. Nitrile rubber gloves are recommended (0.11 mm thickness, breakthrough time 480 min). Gloves must be inspected prior to use. Use proper glove removal technique to avoid skin contact. Wash and dry hands.
- **Eye protection:** Use safety glasses tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
- **Skin and body protection:** Protective clothing.
- **Hygiene measures:** Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance.

9. PHYSICAL AND CHEMICAL PROPERTIES

- **Appearance:** powder
- **Color:** N/A
- **Odor:** N/A
- **Odor Threshold:** N/A
- **pH:** N/A
- **Melting point:** N/A
- **Boiling point/boiling range:** N/A
- **Flash point:** N/A
- **Evaporation rate:** N/A
- **Flammability (solid, gas):** N/A
- **Flammability (liquids):** N/A
- **Burning rate:** N/A
- **Upper explosion limit / Upper flammability limit:** N/A
- **Lower explosion limit / Lower flammability limit:** N/A
- **Vapor pressure:** N/A
- **Relative vapour density:** N/A
- **Relative density:** N/A
- **Density:** N/A
- **Water solubility:** N/A
- **Partition coefficient: n-octanol/water:** N/A
- **Autoignition temperature:** N/A
- **Decomposition temperature:** N/A
- **Viscosity, dynamic:** N/A
- **Viscosity, kinematic:** N/A
- **Flow time:** N/A
- **Explosive properties:** N/A
- **Oxidizing properties:** N/A
- **Molecular weight:** 544.43 g/mol
- **Particle size:** N/A

10. STABILITY AND REACTIVITY

Reactivity: N/A.

Chemical stability: The product is chemically stable under standard ambient conditions (room temperature).

Possibility of hazardous reactions: N/A.

Conditions to avoid: No information available.

Incompatible materials: Strong oxidizing agents.

Hazardous decomposition products: In the event of fire: see section 5.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

- **Acute toxicity:** LD50 Oral - Mouse - 720 mg/kg. Remarks: Nutritional and Gross Metabolic: Weight loss or decreased weight gain. Respiratory disorder. Diarrhoea.
- **Inhalation:** N/A.
- **Dermal:** N/A.
- **Skin corrosion/irritation:** N/A.
- **Serious eye damage/eye irritation:** N/A.
- **Respiratory or skin sensitization:** N/A.
- **Germ cell mutagenicity:** N/A.
- **Carcinogenicity:** No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible, or confirmed human carcinogen by IARC, NTP, or OSHA.
- **Reproductive toxicity:** N/A.
- **Specific target organ toxicity - single exposure:** N/A.
- **Specific target organ toxicity - repeated exposure:** N/A.
- **Aspiration hazard:** N/A.

11.2 Additional Information

- **RTECS:** AU7355000
- **Note:** To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
- **Chronic Effects:** Liver - Irregularities - Based on Human Evidence.

12. ECOLOGICAL INFORMATION

Ecotoxicity:

- **Toxicity to fish:** N/A for 3'-[[[(2S)-2-amino-3-(4-methoxyphenyl)-1-oxopropyl]amino]-3'-deoxy-N,N-dimethyl-adenosine,hydrochloride (1:2).

Persistence and degradability:

- **Biodegradability:** N/A.

Bioaccumulative potential:

- **Bioaccumulation:** N/A.

Mobility in soil:

- **Stability in soil:** N/A.

Other adverse effects:

- **Additional ecological information:** N/A.

13. DISPOSAL CONSIDERATIONS

Disposal methods: Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

14. TRANSPORT INFORMATION

International Regulations

- **IATA-DGR:** Not regulated as a dangerous good.
- **IMDG-Code:** Not regulated as a dangerous good.
- **Transport in bulk according to IMO instruments:** Not applicable for product as supplied.

National Regulations

- **49 CFR Road:** Not regulated as a dangerous good.
- **Poison Inhalation Hazard:** No.

Special precautions for user: Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards

Acute Health Hazard

Chronic Health Hazard

SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know

3'-[[[(2S)-2-amino-3-(4-methoxyphenyl)-1-oxopropyl]amino]-3'-deoxy-N,N-dimethyl-adenosine,hydrochloride
(1:2) 58-58-2

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

New Jersey Right To Know

3'-[[[(2S)-2-amino-3-(4-methoxyphenyl)-1-oxopropyl]amino]-3'-deoxy-N,N-dimethyl-adenosine,hydrochloride
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The components of this product are reported in the following inventories:

TSCA: Product contains substance(s) not listed on TSCA inventory.

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

16. OTHER INFORMATION

Revision Date: 2026/07/14

Further Information: The information provided is believed to be correct but is not exhaustive and should be used only as a guideline based on current knowledge. It does not represent a guarantee of the properties of the product. Selleck Chemicals Corporation and its Affiliates shall not be held liable for any damage resulting from handling or contact with the product.