

Safety Data Sheet: *Puromycin dihydrochloride*

Sect 1. Identification of the substance/mixture and of the Company

Product identifiers

Product name	<i>Puromycin dihydrochloride</i>	CAS #	58-58-2
Product Code	PU	EC/ REACH Number	200-387-8
Formula	C₂₂H₂₉N₇O₅·2HCl	MW	471.52
		RTECS	AU7355000

Intended uses of the substance or mixture and uses advised against

Intended use	Uses advised against:
Only for Research and/or Development	Not for drug, Not to be used in humans or animals. Not food additive
Details of the supplier of the safety data sheet	Emergency Telephone number
FERMENTEK Ltd 4 Yatziv street, POB 47120 Jerusalem 97800, Israel Tel: +972 2 5853953 Fax: +972 2 5853943 eMail: fermentek@fermentek.com Website: www.fermentek.com	For chemical emergency spill, leak, fire, exposure, or accident calls CHEMTREC day or night: Within USA and Canada: 1-800-424-9300. Outside USA and Canada: +1 703-527-3887
This company is the manufacturer of the product, and the supplier of the safety data sheet	
REACH	Number: 200-387-8 Registered: Annex III Preregistration process

Sect 2. Hazards identification

2.1. Classification of the substance

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

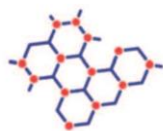
GHS Classification:

Acute toxicity - Oral Category 4 H302 Harmful if swallowed.

2.2. GHS Label elements, including precautionary statements

Pictogram:  Signal word {Warning}

GHS Hazard Statements	H302 - Harmful if swallowed
GHS Precautionary Statements	P264 - Wash hands, face thoroughly after handling P270 - Do not eat, drink or smoke when using this product
	P301+P312 - If swallowed: Call a poison center/doctor



Sect 3. Composition/information on ingredients

Substance

Molecular Formula:	<i>C₂₂H₂₉N₇O₅·2HCl</i>
CAS Registry #:	58-58-2
EC#:	200-387-8
Synonyms	<i>Stylomycin, hydrochloride</i>
Classification	<i>Acute Tox. 4 (Oral), H302 - Harmful if swallowed</i>

Mixture

Not mixture. This product is a pure compound

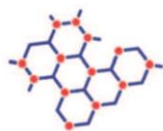
Sect 4. First Aid Measures

General advice	Consult a physician if necessary. Remove to fresh air
Skin Contact	Wash skin with soap and water
Eye contact:	Flush with plenty of water
Ingestion:	Never give anything by mouth to an unconscious person. Clean mouth with water.
Inhalation:	Remove to fresh air If breathing is difficult, give oxygen If not breathing, give artificial respiration
Self-protection of the first aider:	Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination
Most important symptoms and effects, both acute and delayed	
Most important symptoms	No information available.
Indication of any immediate medical attention and special treatment needed	
Note to physicians	Treat symptomatically.

Sect 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	Carbon oxides
Nitrogene oxides	
Advice for firefighters	Wear self-contained breathing apparatus for fire fighting if necessary. Wear protective suit



Sect 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required. Keep people away from and upwind of spill/leak.

Environmental precautions

Methods and material for containment and cleaning up

Methods for containment: Prevent further leakage or spillage if safe to do so. Cover powder spill with plastic sheet or tarp to minimize spreading. Dike far ahead of liquid spill for later disposal.

Methods for cleaning up: Cover liquid spill with sand, earth or other non-combustible absorbent material (e.g. sand, earth, diatomaceous earth, and vermiculite). Cover powder spill with plastic sheet or tarp to minimize spreading. Sweep up and shovel into suitable containers for disposal.

Sect 7. Handling and storage

Precautions for safe handling

Advice on safe handling: Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Storage Conditions: Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Store at -20 °C.

Incompatible materials: None known based on information available.

Sect 8. Exposure Controls/Personal Protection

No occupational exposure limits are listed for this material.

OSHA Permissible Exposure Limits	No Data Available
NIOSH Recommended Exposure Limits	No Data Available
ACGIH Threshold Limit Values	No Data Available

Exposure controls

Appropriate engineering controls

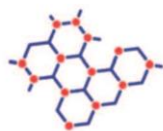
Engineering Controls: Safety showers;
Eyewash stations;
Ventilation systems

General Hygiene Considerations: Handle in accordance with good industrial hygiene and safety practice.

Personal protective equipment // [PPE=Personal Protection Equipment]

The employer/end user, prior to use of this product should perform all recommendations below are advisory in nature and a risk assessment. The type of protective equipment must be selected based on the amount and concentration of the dangerous material being used in the workplace.

PPE: Respiratory protection Where risk assessment shows air-purifying respirators are appropriate, use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators



PPE: Hand Protection:	tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Handle with gloves. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices, and wash and dry hands.
PPE: Eye Protection:	Use tightly sealed goggles. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
PPE: Skin and Body Protection:	Handle with gloves. Wear protective clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Sect 9. Physical and chemical properties

Physical / chemical properties

Physical State at room temperature	Solid / powder
Color	Off White
Melting/freezing point	180-195°C

No further safety-relevant information is available

Sect 10. Stability and reactivity

Reactivity:	No information available.
Chemical stability:	Stable under normal conditions.
Conditions to avoid	Heat, flames and sparks
Incompatible materials	Strong reducers and oxidizers
Possibility of Hazardous Reactions	None under normal processing
Hazardous decomposition products:	Carbon monoxide CO, Carbon dioxide (CO ₂).

Sect 11. Toxicological information

Information on likely routes of exposure

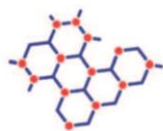
Ingestion	Oral, Rodent (Mouse) LD50 = 720 mg/kg
Inhalation	No data available.
Eye contact.	Irritating effect.
Skin contact.	No data available.

Information on toxicological effects

Symptoms	No information available
Chronic Toxicity	No information available
OSHA-Ca (Occupational Safety & Health Administration)	Substance is not listed
NTP (National Toxicology Program)	Substance is not listed
IARC (International Agency for Research on Cancer) .	Substance is not listed

Additional information

RTECS	AU7355000
REACH Annex III	Number 200-387-8 The following data are indirect, obtained from in-vitro experiments and from in-silico predictions <ul style="list-style-type: none"> • Suspected as carcinogen • Suspected as mutagen • Suspected as toxic for reproduction



- Suspected hazardous to the aquatic environment

Sect 12. Ecological Information

Eco-Toxicity:	The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. Not classified as dangerous for the ozone layer. See Reach Annex III in section 11 above.
Other adverse effects	No information available

Sect 13. Disposal Considerations

Waste treatment methods	
Waste from residues / unused products	Dispose of in accordance with local regulations
Contaminated packaging	Dispose of as unused product

Sect 14. Transport information

UN number, Proper Shipping Name, Transport Hazard Class, packing group

	US DOT	ADR/RID:	IMDG:	IATA
UN Number	Not dangerous goods	Not dangerous goods	Not dangerous goods	Not dangerous goods
UN proper shipping name	Not regulated	Not regulated	Not regulated	Not regulated
Transport Hazard Class & Packing Group	Not dangerous goods Not regulated	Not dangerous goods Not regulated	Not dangerous goods Not regulated	Not dangerous goods Not regulated

Sect 15. Regulatory information

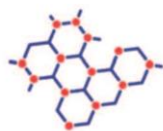
Safety, health and environmental regulations/legislation	
USA EPA / TSCA	This product is not listed on the USA EPA TSCA
European regulation	r
CA: DSL/NDSL Status	This product is not listed on the Canadian DSL/NDSL

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA): This product does not contain any chemicals, which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Reactive hazard	No



Sect 16. Other information

Date of revision: Tuesday, 28 January, 2020

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given here is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of SDS---

Puromycin dihydrochloride

PU

58-58-2

200-387-8

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471.52

AU7355000