

Safety Data Sheet: **Puromycin HCl**

1) Identification of the substance/mixture and of the Company

Product identifiers	
Product name	Puromycin HCl
Product Code	PU
CAS #	58-58-28
EC/ REACH Number	200-387-8
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	
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
This company is the manufacturer of the product, and the supplier of the safety data sheet	
Emergency Telephone number	
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	
REACH	A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

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

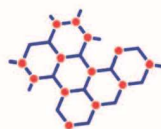
Pictogram:  Signal word {Warning}

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

3) Composition/information on ingredients

Substance

Molecular Formula:	C ₂₂ H ₂₉ N ₇ O ₅ ·2HCl; m.w. 544.43
CAS Registry #:	58-58-2
EC#:	200-387-8



Synonyms	Stylomycin, hydrochloride
Classification	Acute Tox. 4 (Oral), H302 - Harmful if swallowed

Mixture

Not mixture. This product is a pure compound

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.

5) Fire-fighting measures

Extinguishing media

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards arising from the substance or mixture	Carbon oxides, Nitrogen oxides, Phosgene
Advice for firefighters	Wear self-contained breathing apparatus for fire fighting if necessary. Wear protective suit
Further information	No data available

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

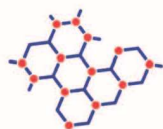
Environmental precautions See part 12

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.





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.

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

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=Personal Protection Equipment]

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 and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

PPE: Hand Protection:

Handle with gloves. Inspected prior to use. Use proper glove removal techniques to avoid skin contact with this product. 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. When deemed needed according to the concentration and amount of this product, use a complete body suit.

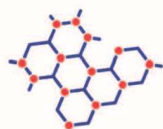
9) Physical and chemical properties

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

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). Nitrogen oxides (NO _x). Phosgene.

11) Toxicological information

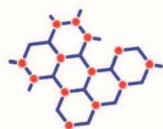
Information on likely routes of exposure	
Ingestion	Oral, Rodent (Mouse) LD50 = 720 mg/kg; Source: Antibiotics Annual. Vol. 2, Pg. 757, 1954/1955; RTECS AU7355000
Inhalation	No data available.
Eye contact.	Irritating effect.
Skin contact.	No data available.
Information on toxicological effects	
Symptoms	Nutritional and Gross Metabolic - weight loss or decreased weight gain Lungs, Thorax, or Respiration - respiratory depression Gastrointestinal - hypermotility, diarrhea, nausea Behavioral - muscle weakness; somnolence (general depressed activity)
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

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.
Other adverse effects	No further relevant information available.

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



14) Transport information

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

	US DOT	ADR/RID:	IMDG:	IATA
UN Number	N.A.	N.A.	N.A.	N.A.
UN proper shipping name	Not dangerous goods	Not dangerous goods	Not dangerous goods	Not dangerous goods
Transport Hazard Class & Packing Group	None	None	None	None
	Not regulated	Not regulated	Not regulated	Not regulated

15) Regulatory information

Safety, health and environmental regulations/legislation

USA EPA / TSCA	This product is not listed on the USA EPA TSCA
USA EPA/ SARA	S. 302 (EHS); S. 304 (RQ) – not listed
EU ECHA Status	This product is not registered with the EU ECHA
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

16) Other information

Date of revision: 29-May 2017

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