

# SAFETY DATA SHEET

Cat# 1861-100, EZSolution™ Puromycin Dihydrochloride

SDS DATE: Mar 26, 2012

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** EZSolution™ Puromycin Dihydrochloride  
**PRODUCT CODES:** Cat# 1861-100  
**MANUFACTURER:** BioVision, Inc.  
**ADDRESS:** 155 S. Milpitas Boulevard, Milpitas, CA 95035  
**EMERGENCY PHONE:** 858-373-8066  
**CHEMTREC PHONE:**  
**OTHER CALLS:** 408-493-1800  
**FAX PHONE:** 408-493-1801

## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component	Description	Volume	Safety Information
Puromycin Dihydrochloride	A solution (10 mg/ml, 0.2 µM sterile filtered) of Puromycin Dihydrochloride in deionized water.	100 mg	See below

## SECTION 3: HAZARDS IDENTIFICATION

Product Name/Chemical Name	CAS Number	EC-No.	MW	Chemical Formula
EZSolution™ Puromycin Dihydrochloride	58-58-2	200-387-8	544.43	C <sub>22</sub> H <sub>29</sub> N <sub>7</sub> O <sub>5</sub> · 2HCl
Water	7732-18-5	231-791-2	18.02	H <sub>2</sub> O

### Puromycin Dihydrochloride:

#### Emergency Overview

**OSHA Hazards:** Harmful by ingestion, Target organ effect

**Target Organs:** Lungs

**GHS Classification:** Acute toxicity, Oral (Category 4)

**GHS Label elements, including precautionary statements**

Pictogram:



Signal word: Warning  
Hazard statement(s): H302 Harmful if swallowed.  
Precautionary statement(s): P261 Avoid breathing dust/fumes/gas/mist/vapors/spray.  
P280 Wear protective gloves/protective clothing.  
P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P405 Store locked up.  
P501 Dispose of contents/container to a licensed disposal company.

#### HMIS Classification

**Health hazard:** 1

**Chronic health hazard:** \*

**Flammability:** 0

**Physical hazards:** 0

#### NFPA Rating

**Health Hazard:** 1

**Fire:** 0

**Reactivity Hazard:** 0

#### Potential Health Effects

**Inhalation:** May be harmful if inhaled. May cause respiratory tract irritation.

**Skin:** Harmful if absorbed through skin. May cause skin irritation.

**Eyes:** May cause eye irritation.

**Ingestion:** Harmful if swallowed.

## SECTION 4: FIRST AID MEASURES

**General advice:** Move out of dangerous area.

**If inhaled:** If breathed in, move person into fresh air. If not breathing, give artificial respiration.

**In case of skin contact:** Wash off with soap and plenty of water.

**In case of eye contact:** Flush eyes with water as a precaution.

**If swallowed:** Never give anything by mouth to an unconscious person. Rinse mouth with water.

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Cat# 1861-100, EZSolution™ Puromycin Dihydrochloride

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## 5: FIRE-FIGHTING MEASURES

**Condition of flammability:** Not flammable or combustible.

**Suitable extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special protective equipment for fire-fighters:** Wear self-contained breathing apparatus for firefighting if necessary.

**Hazardous combustion products:** Hazardous combustion products formed under fire conditions— not available.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist, gas, or dust. Ensure adequate ventilation.

**Environmental precautions:** Do not let product enter drains.

**Methods for cleaning up:** Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

## SECTION 7: HANDLING AND STORAGE

### Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

### Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: -20 °C

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

### Personal protective equipment

#### Respiratory protection

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Eye protection

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

#### Skin and body protection

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace

#### Hygiene measures

General industrial hygiene practice.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Puromycin Dihydrochloride
<b>Appearance:</b>	White to off-white solid
<b>pH:</b>	No data available
<b>Water Solubility:</b>	~50 mg/ml
<b>Other Solubility:</b>	No data available
<b>Specific Gravity (g/ml):</b>	No data available
<b>Boiling Point (°C):</b>	No data available
<b>Melting Point (°C):</b>	No data available
<b>Flash Point (°C):</b>	No data available
<b>Ignition Temperature (°C):</b>	No data available
<b>Density</b>	No data available

## SECTION 10: STABILITY AND REACTIVITY

Property	Puromycin Dihydrochloride
<b>Chemical stability</b>	Stable under recommended storage conditions
<b>Conditions to avoid:</b>	No data available
<b>Materials to avoid:</b>	Strong oxidizing agents
<b>Hazardous decomposition products:</b>	Carbon oxides, nitrogen oxides, hydrogen chloride gas

## SECTION 11: TOXICOLOGICAL INFORMATION

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## Puromycin Dihydrochloride:

**Acute toxicity:** LD50 Oral – mouse – 720 mg/kg → Remarks: Nutritional and gross metabolic: weight loss or decreased weight gain. Respiratory disorder. Diarrhea.

**Skin corrosion/irritation:** no data available

**Serious eye damage/eye irritation:** no data available

**Respiratory or skin sensitization:** no data available

**Germ cell mutagenicity:** no data available

### **Carcinogenicity:**

- IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity:** no data available

**Teratogenicity:** no data available

**Specific target organ toxicity – single exposure (GHS):** no data available

**Specific target organ toxicity – repeated exposure (GHS):** no data available

**Aspiration hazard:** no data available

### **Potential Health Effects**

**Inhalation:** May be harmful if inhaled. May cause respiratory tract irritation.

**Skin:** Harmful if absorbed through skin. May cause skin irritation.

**Eyes:** May cause eye irritation.

**Ingestion:** Harmful if swallowed.

**Signs and Symptoms of Exposure:** To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Synergistic effects:** no data available

**Additional information:** RTECS: AU7355000

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## SECTION 12: ECOLOGICAL INFORMATION

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### Puromycin Dihydrochloride:

**Persistence and degradability:** no data available

**Toxicity:** no data available

**Bioaccumulative potential:** no data available

**Mobility in soil:** no data available

**PBT and vPvB assessment:** no data available

**Other adverse effects:** no data available

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## SECTION 13: DISPOSAL CONSIDERATIONS

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**Product:** Observe all federal, state, and local environmental regulations.

**Contaminated packaging:** Dispose of as unused product.

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## SECTION 14: TRANSPORT INFORMATION

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### Puromycin Dihydrochloride:

**DOT (US):** Not dangerous goods.

**IMDG:** Not dangerous goods.

**IATA:** Not dangerous goods.

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## SECTION 15: REGULATORY INFORMATION

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### Puromycin Dihydrochloride:

**OSHA Hazards:** Harmful by ingestion, Target organ effect

**DSL Status:** This product contains the following components that are not on the Canadian DSL nor NDSL lists:

Puromycin Dihydrochloride, CAS-No. 58-58-2

**SARA 302 Components:** SARA 302: No chemical in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components:** 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 II, Section 313.

**SARA 311/312 Hazards:** Acute Health Hazard, Chronic Health Hazard

**Massachusetts Right To Know Components:** No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know Components:** Puromycin Dihydrochloride, CAS-No. 58-58-2;

Water, CAS-No. 7732-18-5

**New Jersey Right To Know Components:** Puromycin Dihydrochloride, CAS-No. 58-58-2;

Water, CAS-No. 7732-18-5

**California Prop. 65 Components:** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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Cat# 1861-100, EZSolution™ Puromycin Dihydrochloride

SDS DATE: Mar 26, 2012

## EU regulations

Component	Risk Phrases	Safety Phrases
Puromycin Dihydrochloride	R22	S20, S22, S36/37/39, S46

## SECTION 16: OTHER INFORMATION

### DISCLAIMER:

The above information 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. It does not represent any guarantee of the properties of the product. BioVision, Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.