



MATERIAL SAFETY DATA SHEET

Section 1: Product & Company Identification

Product Name:	Puromycin dihydrochloride
Product #:	P-1033
Synonyms:	3'-[α -Amino- <i>p</i> -methoxyhydrocinnamamido]-3'-deoxy-N,N-dimethyladenosine dihydrochloride
Supplier:	A.G. Scientific, Inc. 6450 Lusk Blvd., Ste. E102 San Diego, CA 92121 Tele# + 858-452-9925 Fax# + 858-452-9926
Emergency Tele#:	Chemtrec, Tele# in USA 1-800-424-9300, International 1-703-527-3887

Section 2: Composition / Information on Ingredients

Component	CAS#	EC #	%	Classification	R Phrases
	58-58-2	200-387-8	n/a	n/a	n/a

Section 3: Hazards Identification

Symbols	N/A
HMIS Classification	<p>FLAMMABILITY HEALTH 1 REACTIVITY 0 --</p>
NFPA Classification	<p>FLAMMABILITY HEALTH 1 REACTIVITY 0 OTHER</p>

Section 4: First Aid Measures

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General Overview:	Avoid contact, wear suitable protective clothing, gloves and eye/face protection.
Inhalation:	If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing give artificial respiration, seek medical attention.
Skin:	Wash immediately with water for 15 minutes. Remove contaminated clothing. Wash contaminated clothing before reuse. Seek medical attention if symptoms appear.
Eyes:	In case of contact, immediately flush eyes or skin with copious amounts of water for at least 15 minutes. Remove contacts. Assure adequate flushing of the eyes by separating the eyelids with fingers.
Ingestion:	If swallowed, wash out mouth with water provided person is conscious. DO NOT induce vomiting. Seek medical attention if symptoms appear. Loosen tight clothing like collar, tie, belt or waistband.
	<i>See section 11 for more detailed information on health effects & symptoms</i>

SECTION 5: Fire Fighting Measures

Flammability of the product:	Emits toxic fumes under fire conditions.
Extinguishing Media:	Dry Chemical Powder for SMALL FIRES and carbon dioxide or water spray, fog or foam for LARGE FIRES. Do not use water jet.
Hazardous thermal (de)composition products:	N/A
Special Fire Fighting Procedures:	Wear self-contained breathing apparatus (SCBA) and protective clothing to prevent contact with skin and eyes. Be sure to use an approved/certified respirator or equivalent.
Flash Point:	N/A


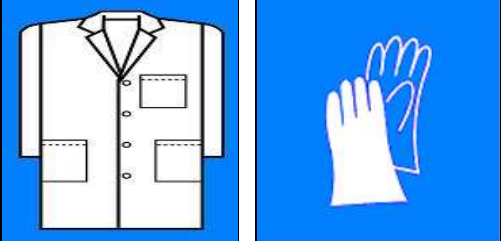

Section 6: Accidental Release Measures

Personal Precautions:	Use Personal Protection Equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.
Environmental Precautions:	Do not let product enter drains.
Methods for Clean-up:	Pick up and arrange disposal without creating dust. Keep in suitable, closed container for disposal.

SECTION 7: Handling & Storage

Handling:	Avoid the formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.
Storage:	Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature is -20°C.

SECTION 8: Exposure controls / Personal Protection

Respiratory Protection:	 <p>Wear appropriate government (NIOSH/MSHA) approved respirator. Do not breathe vapor.</p>
Skin and Body:	 <p>Chemical-resistant gloves and lab coat/other protective clothing. Avoid prolonged or repeated exposure. Wash thoroughly after handling.</p>
Eyes:	 <p>Safety goggles.</p>
Ventilation/Engineering Measures:	<p>Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits.</p>
Hygiene:	<p>Wash hands after handling compound and before eating, smoking, using lavatory and at the end of the day.</p>
Other:	<p>Contains no substances with occupational exposure limit values.</p>

SECTION 9: Physical and Chemical Properties

Appearance:	Solid
Color:	White to off-white
Formula:	$C_{22}H_{29}N_7O_5 \cdot 2HCl$
Molecular Wt.	544.40 g/mole

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Melting Pt.	n/a
Boiling Pt.	n/a
pH:	n/a
Density:	n/a
Vapor Pressure:	n/a
Evaporation Rate:	n/a
Vapor Density:	n/a
Water Solubility:	n/a
Flash Point:	n/a
Ignition temperature:	n/a
Autoignition Temp:	n/a

SECTION 10: Stability and Reactivity

Storage stability:	Stable under recommended storage conditions.
Materials to Avoid:	Strong oxidizing agents.
Hazardous decomposition products:	Hazardous decomposition products formed under fire conditions- Carbon oxides, nitrogen oxides (NOx), Hydrogen chloride gas.

SECTION 11: Toxicological Information

ACUTE Toxicity:	LD ₅₀ Oral- mouse- 720 mg/kg <i>REMARKS:</i> Nutritional and Gross Metabolic: Weight loss or decreased weight gain. Respiratory disorder diarrhea
RTECS#:	--
CHRONIC Toxicity:	Possible Teratogenic effects on humans, Extremely hazardous in case of skin contact, ingestion.
Chronic Exposure: Carcinogen: Mutagen: Teratogen: Reproductive:	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 probable, potential human carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as known or, anticipated human carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as known or, potential human carcinogen by OSHA. EPA: No classification on carcinogenic data is available from EPA

SECTION 12: Ecological Information

Ecotoxicity:	N/A
Mobility:	N/A
Persistence and degradability:	N/A
Bioaccumulative potential:	N/A

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Other adverse effects:	N/A
Corrosivity Characteristic:	N/A
General Notes:	Do not allow undiluted product or large quantities of it to reach groundwater, water course or sewer system. Do not allow materials to be released into the environment without proper government permits.
Ecotoxicity:	N/A

SECTION 13: Disposal Considerations

Residue Waste or Unused product:	<i>Only professional staff trained in such techniques must undertake waste disposal. Observe all appropriate federal, provincial or state and local regulations.</i>
Contaminated Packaging:	Do not re-use empty containers. Dispose of as unused product.

SECTION 14: Transportation Information

DOT (US)	Not dangerous goods
IMDG/IMO (SEA)	Not dangerous goods
IATA/DGR (AIR)	Not dangerous goods

SECTION 15: Regulatory Information

OSHA Hazards:	Target Organ Effect, Harmful by ingestion.
TSCA Status:	Not on TSCA inventory (S)-3'-[α -Amino- <i>p</i> -methoxyhydrocinnamamido]-3'-deoxy-N,N-dimethyladenosine dihydrochloride; CAS# [58-58-2]
DSL Status:	This product contains the following components that are not on the Canadian DSL nor the NDSL list. (S)-3'-[α -Amino- <i>p</i> -methoxyhydrocinnamamido]-3'-deoxy-N,N-dimethyladenosine dihydrochloride; CAS# [58-58-2]
SARA 302 Components:	SARA 302: No chemicals in this material are subject to reporting requirements of SARA Title III, Section 302.
SARA 313 Components:	SARA 313: This material does not contain any chemical component with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA

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	Title III, Section 313.
SARA 311/312 Hazards:	Acute health hazard, Chronic Health hazard
Massachusetts right to know components:	No components listed
Pennsylvania right to know components:	(S)-3'-[α -Amino- <i>p</i> -methoxyhydrocinnamamido]-3'-deoxy-N,N-dimethyladenosine dihydrochloride; CAS# [58-58-2]
New Jersey right to know components:	(S)-3'-[α -Amino- <i>p</i> -methoxyhydrocinnamamido]-3'-deoxy-N,N-dimethyladenosine dihydrochloride; CAS# [58-58-2]
California Prop. 65 components:	This product does not contain any chemicals known to the state of California to cause cancer, birth or any other reproductive defects.

SECTION 16: Other Information

LIABILITY STATEMENT: *The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. A.G. Scientific shall not be held liable for any damages resulting from handling or from contact with the above product. A.G. Scientific products are for research purposes only. Not for human use or consumption.*

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