

Safety Data Sheet


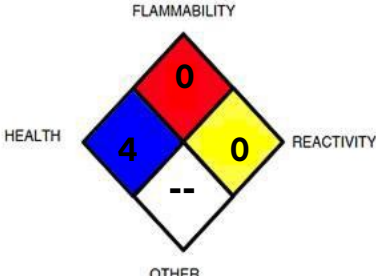
Section 1: Product & Company Identification

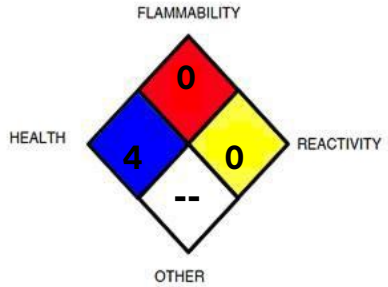
Product Name:	Valinomycin
Product #:	V-1013
Synonyms:	3,6,9,15,18,21,27,30,33-nonaisopropyl-12,24,36-trimethyl-1,7,13,19,25,31-hexaoxa-4,10,16,22,28,34-hexaaza-cyclohexatriacontane-2,5,8,11,14,17,20,23,26,29,32,35-dodecaone; Cyclo(L-Val-D-Hylva-D-Val-L-Lac-)3: Hylva = α -Hydroxyisovaleric acid, Lac = Lactic acid
Supplier:	AG Scientific Holdings, LLC 9950 Scripps Lake Drive, Suite 104 San Diego CA 92131 Tele# + 858-452-9925
Emergency Tele#:	ChemTel, Tele# in USA 1-800-255-3924, International 1-813-248-0585

Section 2: Composition / Information on Ingredients

Component	CAS#	EC #	% Composition
Valinomycin	2001-95-8	N/A	100

Section 3: Hazards Identification

Symbols	
HMIS Classification	<p style="text-align: center;">FLAMMABILITY</p>  <p style="text-align: center;">OTHER</p>

NFPA Classification	
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Section 4: First Aid Measures

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.
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, DO NOT induce vomiting. Wash mouth with water, never give anything to unconscious person. Seek medical attention immediately.
	See section 11 for more detailed information on health effects & symptoms

SECTION 5: Fire Fighting Measures

Flammability of the product:	No data available
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:	Carbon oxides, Nitrogen oxides
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:	No data available

Section 6: Accidental Release Measures





Personal Precautions:	Use Personal Protection Equipment. Splash goggles. Gloves. Avoid dust formation.
Environmental Precautions:	Do not let product enter drains.

Methods for Clean-up:	Sweep up & shovel into suitable disposal container. Ventilate area and wash spill site after material pickup is complete.
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SECTION 7: Handling & Storage

Storage:	Store at +4°C and protect from light. Keep container tightly closed and in cool, dry, well-ventilated area.
Handling:	Use only in area provided with appropriate exhaust ventilation. Keep away from heat and source of ignition. Empty containers pose a fire risk, evaporate residue under fume hood. Ground all equipment containing material. Do not breathe dust.

SECTION 8: Exposure controls / Personal Protection

Respiratory Protection:	 <p>If exposure limit reached use ventilation system when handling or wear appropriate government (NIOSH/MSHA) approved respirator.</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:	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits.
Hygiene:	Wash contaminated clothing before reuse. Do not eat, drink, or smoke when using this product. Always wash hands after handling the product.
Other:	N/A

SECTION 9: Physical and Chemical Properties

Appearance & Odor:	White powder
Formula	$C_{54}H_{90}N_6O_{18}$
Molecular Wt.	1111.36
Melting Pt.	187-191°C
Boiling Pt.	No data available
Density:	No data available
Vapor Pressure:	No data available
Evaporation Rate:	No data available
Vapor Density:	No data available
Solubility:	No data available
Flash Point:	No data available
Autoignition Temp:	No data available

SECTION 10: Stability and Reactivity

Stability:	The product is stable and non-reactive under normal conditions of use, storage, and transport.
Hazardous decomposition products:	No dangerous reactions known under normal conditions of use.
Materials to Avoid:	No data available
Conditions to avoid:	None under recommended storage and handling conditions.

SECTION 11: Toxicological Information

RTECS#:	N/A
ACUTE Toxicity:	Acute toxicity (oral): Fatal if swallowed Acute toxicity (dermal): Fatal in contact with skin LD50 Oral: 4mg/kg (rat) LD50 Dermal: 5mg/kg (rabbit)
CHRONIC Toxicity:	N/A

Chronic Exposure: Carcinogen: Mutagen: Teratogen: Reproductive:	<p>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.</p> <p>AGGIH: No component of this product present at levels greater than or equal to 0.1% is identified as probable, potential human carcinogen by ACGIH.</p> <p>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.</p> <p>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.</p> <p>EPA: No classification on carcinogenic data is available from EPA</p>
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SECTION 12: Ecological Information

Ecotoxicity:	The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
Mobility:	No data available
Persistence and degradability:	No data available
Bioaccumulative potential:	No data available
Other adverse effects:	No data available
Corrosivity Characteristic:	No data available
General Notes:	No data available

SECTION 13: Disposal Considerations

Residue Waste or Unused product:	Dispose of contents/container in accordance with licensed collector's sorting instructions.
Contaminated Packaging:	Dispose of as unused product.

SECTION 14: Transportation Information

UN ID#:	UN2811
ADR / RID (LAND):	TOXIC SOLID, ORGANIC, N.O.S. Class 6.1 Packing I
DOT regulations:	TOXIC SOLID, ORGANIC, N.O.S. Class 6.1 Packing I
IMDG/IMO (SEA):	TOXIC SOLID, ORGANIC, N.O.S. Class 6.1 Packing I
IATA/DGR (AIR):	TOXIC SOLID, ORGANIC, N.O.S.

	Class 6.1 Packing I
Special Provisions:	N/A

SECTION 15: Regulatory Information

Health Phrases:	H300: Acute oral toxicity Cat. 1 H310: Acute dermal toxicity Cat. 1 H330: Acute Inhalation Toxicity - Dusts and Mists Cat. 2 H318: Serious Eye Damage/Eye Irritation Cat. 1 H373: Specific target organ toxicity (single exposure) Cat. 2
Risk Phrases:	N/A
Safety Phrases:	N/A
EU Regulations:	N/A
US Regulations:	TSCA. No products were found. California Proposition 65: No products were found.
U.S. Federal Regulations:	SARA 302/304/311/312 extremely hazardous substances: No products were found SARA 302/304 emergency planning and notification: No products were found. SARA 302/304/311/312 hazardous chemicals: No products were found. SARA 311/312 MSDS distribution-chemical inventory-hazard identification: Acute and chronic health hazard SARA 313 toxic chemicals notification and release reporting: No products were found. Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: No products were found. Clean Air Act (CAA) 112 accidental release prevention: No products were found. Clean Air Act (CAA) 112 regulated flammable substances: No products were found. Clean Air Act (CAA) 112 regulated toxic substances: No products were found. OSHA: No products were found.
WHMIS (Canada):	N/A

SECTION 16: Other Information

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