



Material Safety Data Sheet

NFPA	HMIS	Personal Protective Equipment
3 0	Health Hazard 3 Fire Hazard 1	
	Reactivity	See Section 15.

Section 1. Chemical Product and Company Identification			Page Number: 1
Common Name/ Trade Name	Valinomycin	Catalog Number(s).	V1015
		CAS#	2001-95-8
Manufacturer	SPECTRUM LABORATORY PRODUCTS INC.	RTECS	YV9468000
	14422 S. SAN PEDRO STREET GARDENA, CA 90248	TSCA	TSCA 8(b) inventory: Valinomycin
Commercial Name(s)	Not available.	CI#	Not available.
Synonym	Valinomicin	IN CASE OF	EMEDCENCY
Chemical Name	Valinomycin		<u>EMERGENCY</u> C (24hr) 800-424-9300
Chemical Family	Not available.	CALL (310) 5	16-8000
Chemical Formula	Not available.		
Supplier	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248		

Section 2.Composition and Information on Ingredients						
				Exposure Limits		
Name		CAS#	TWA (mg/m³)	STEL (mg/m³)	CEIL (mg/m³)	% by Weight
1) Valinomycin		2001-95-8				100
Toxicological Data Valinomycin: on Ingredients ORAL (LD50): Acute: 4 mg/kg [Rat]. 2.5 mg/kg [Mouse]. DERMAL (LD50): Acute: 5 mg/kg [Rabbit].						

Section 3. Hazards Identification

Potential Acute Health Effects

Very hazardous in case of skin contact (permeator), of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant), of eye contact (irritant). Severe over-exposure can result in death.

Potential Chronic Health

Effects

CARCINOGENIC EFFECTS: Not available. **MUTAGENIC EFFECTS**: Not available. TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

The substance may be toxic to the nervous system, peripheral nervous system, central nervous system (CNS),

eye, lens or cornea.

Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

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Section 4. First A	id Measures
Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.
Skin Contact	Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.
Serious Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Serious Inhalation	Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.
Ingestion	If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
Serious Ingestion	Not available.

Section 5. Fire and E.	Section 5. Fire and Explosion Data		
Flammability of the Product	May be combustible at high temperature.		
Auto-Ignition Temperature	Not available.		
Flash Points	Not available.		
Flammable Limits	Not available.		
Products of Combustion	Not available.		
Fire Hazards in Presence of Various Substances	Slightly flammable to flammable in presence of heat. Non-flammable in presence of shocks.		
Explosion Hazards in Presence of Various Substances	Slightly explosive in presence of open flames and sparks. Non-explosive in presence of shocks.		
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.		
Special Remarks on Fire Hazards	As with most organic solids, fire is possible at elevated temperatures		
Special Remarks on Explosion Hazards	Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.		

Section 6. Accidental Release Measures		
Small Spill	Use appropriate tools to put the spilled solid in a convenient waste disposal container.	
Large Spill	Poisonous solid. Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Call for assistance on disposal.	

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Section 7. Handling and Storage	

Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe dust. Avoid contact with skin. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, acids, alkalis.

Storage Keep container tightly closed. Keep container in a cool, well-ventilated area.

Precautions

Section 8. Exposure Controls/Personal Protection		
Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.	
Personal Protection	Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.	
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.	
Exposure Limits	Not available.	

Section 9. Physical and Chemical Properties			
Physical state and appearance	Solid.	Odor	Not available.
Molecular Weight	1111.36 g/mole	Taste	Not available.
pH (1% soln/water)	Not applicable.	Color	White.
Boiling Point	Not available.		
Melting Point	187°C (368.6°F) - 191 C.		
Critical Temperature	Not available.		
Specific Gravity	Not available.		
Vapor Pressure	Not applicable.		
Vapor Density	Not available.		
Volatility	Not available.		
Odor Threshold	Not available.		
Water/Oil Dist. Coeff.	Not available.		
Ionicity (in Water)	Not available.		
Dispersion Properties	Not available.		
Solubility	Insoluble in cold water, hot water. Soluble in Petroleum Ether.		

Section 10. Stability and Reactivity Data		
Stability	The product is stable.	
Instability Temperature	Not available.	
Conditions of Instability	Excess heat, incompatible materials, dust generation.	
Incompatibility with various substances	Reactive with oxidizing agents, acids, alkalis.	

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Valinomycin		Page Number: 4
Corrosivity	Not available.	
Special Remarks on Reactivity	Not available.	
Special Remarks on Corrosivity	Not available.	
Polymerization	Will not occur.	

Section 11. Toxicological Information		
Routes of Entry	Absorbed through skin. Dermal contact. Inhalation. Ingestion.	
Toxicity to Animals	Acute oral toxicity (LD50): 2.5 mg/kg [Mouse]. Acute dermal toxicity (LD50): 5 mg/kg [Rabbit].	
Chronic Effects on Humans	May cause damage to the following organs: the nervous system, peripheral nervous system, central nervous system (CNS), eye, lens or cornea.	
Other Toxic Effects on Humans	Very hazardous in case of skin contact (permeator), of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant).	
Special Remarks on Toxicity to Animals	Not available.	
Special Remarks on Chronic Effects on Humans	Not available.	
Special Remarks on other Toxic Effects on Humans	Acute Potential Health Effects: May cause skin irritation. May be fatal if absorbed through skin. May affect behavior/central nervous system if absorbed through skin with symptoms similar to that of ingestion. It may also affect metabolism (weight loss) Eyes: May cause eye irritation. High exposure may cause, corneal edema, intraocular pressure, clouding of the eye lenses (cataracts) with loss of vision. Inhalation: May be harmful if inhaled. Ingestion: May be fatal if ingested. May affect behavior/central nervous system (tremors, convulsions/seizures, aggressive behavior) and peripherial nervous system. It may also affect the heart and kidneys as is seen with other ionophore antibiotics. Chronic Potential Health Effects: Ingestion: Prolonged or repeated ingestion may affect behavior/central nervous system with symptoms similar to that of acute ingestion.	

Section 12. Ecological Information			
Ecotoxicity	Not available.		
BOD5 and COD	Not available.		
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.		
Toxicity of the Products of Biodegradation	Not available.		
Special Remarks on the Products of Biodegradation	Not available.		

Section 13. Disposal Considerations Waste Disposal Waste must be disposed of in accordance with federal, state and local environmental control regulations.

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Section 14. Transport Information				
DOT Classification	CLASS 6.1: Poisonous material.			
Identification	: Toxic Solid, organic, n.o.s.(Valinomycin) UNNA: 2811 PG: I			
Special Provisions for Transport	Not available.			
DOT (Pictograms)	INHALATION HAZARD			

Section 15. Other Regulatory Information and Pictograms

WHMIS (Canada)

Federal and State Regulations

Illinois chemical safety act: Valinomycin New York release reporting list: Valinomycin

Pennsylvania RTK: Valinomycin Massachusetts RTK: Valinomycin Massachusetts spill list: Valinomycin

New Jersey: Valinomycin New Jersey spill list: Valinomycin TSCA 8(b) inventory: Valinomycin

SARA 302/304/311/312 extremely hazardous substances: Valinomycin CERCLA: Hazardous substances.: Valinomycin: 1000 lbs. (453.6 kg)

California Proposition 65	California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: No products were found.	
Warnings	California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: No products were found.	
Other Regulations	OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.	

DSCL (EEC) R27/28- Very toxic in contact with skin S36/37- Wear suitable protective clothing and and if swallowed. gloves. S45- In case of accident or if you feel unwell,

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seek medical advice immediately (show the label where possible).

Health

CLASS D-1A: Material causing immediate and serious toxic effects (VERY TOXIC).

HMIS (U.S.A.)	Health Hazard	3
	Fire Hazard	1
	Reactivity	•

National Fire Protection Association (U.S.A.)

Flammability Reactivity Specific hazard

WHMIS (Canada) (Pictograms)

Other Classifications



Personal Protection

DSCL (Europe) (Pictograms)



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Valinomycin		Page Number: 6
TDG (Canada) (Pictograms)		
ADR (Europe) (Pictograms)		
Protective Equipment	Gloves.	
	Lab coat.	



Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Safety glasses.



Section 16. Other Information

MSDS Code V3041

References Not available.

Other Special Considerations

Validated by Sonia Owen on 8/11/2006.

Verified by Sonia Owen.

Printed 9/14/2006.

CALL (310) 516-8000

Notice to Reader

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.