

# VALIDAMYCIN SAFETY DATA SHEET

1. IDENTIFICATION Product Identifier Product Number Distributor Name

**Distributor Address** 

Phone Number Emergency Phone Number (US only) Emergency Phone Number (International) Safety Data Sheet Issued by CAS-Number Recommended Use Validamycin V012 **TOKU-E** Company 715 W Orchard Dr, Suite 3 Bellingham, WA 98225 (360) 734-1789 1 (800) 535-5053 +1 (352) 323-3500 TOKU-E USA [37248-47-8] Antibiotic and fungicidal compound produced by Streptomyces hygroscopicus. Validamycin is used to inhibit Rhizoctonia species, a group of pathogens notorious for causing diseases in potatoes, cotton, sugar beets, and rice Not for human or animal use

**Restrictions on Use** 

2. HAZARD(S) IDENTIFICATION GHS Classification

GHS Label Elements, Including Precautionary statements

**Hazard Statements** 

**Precautionary Statements** 

Skin irritant (Category 2) Eye irritant (Category 2) Specific target organ toxicity, single exposure, respiratory tract (Category 3)



Signal Word: Warning H315: Causes skin irritation. H319: Causes serious eye irritation. H335: May cause respiratory irritation. P264: Wash hands thoroughly after handling. P280: Wear protective gloves/protective clothing/eye protection/face protection. P362 + P364: Take off contaminated clothing and wash before reuse P261: Avoid breathing dust/fumes/gas/mist/ vapours/spray.

P302 + P352: IF ON SKIN: Wash with plenty of soap and water.

P332 + P313: If skin irritation occurs, get medical advice/attention.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P337 + P313: If eye irritation persists, get medical advice/attention.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonym(s)

General Advice

If Inhaled

If Swallowed

 Formula
 C20H35NO13

 Molecular Weight
 497.50 g/mol

 CAS-Number
 [37248-47-8]

 EC-Number
 List number [609-372-4]

Valimon;

Consult a physician. Show this Safety Data Sheet to the medical provider If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a doctor Rinse thoroughly with plenty of water for at

least 15 minutes, consult a doctor Never give anything by mouth to an unconscious person. Consult a doctor. Rinse mouth with water.

# 5. FIRE-FIGHTING MEASURES

In Case of Eye Contact

Conditions of Flammability Suitable Extinguishing Media

Special Protective Equipment for Firefighters Hazardous Combustion Products

6. ACCIDENTAL RELEASE MEASURES General Personal Precautions

**Environmental Precautions** 

Not flammable or combustible Water spray, alcohol-resistant foam, dry chemical, carbon dioxide Wear self-contained breathing apparatus

Formed under fire conditions: Carbon and Nitrogen oxides

Evacuate personnel to safe location Wear respiratory protection. Avoid dust formation and breathing vapors/mist/dust/gas. Ensure adequate ventilation Prevent spillage, do not let product enter drains

	Methods of Containment and Cleanup	Place in suitable, closed containers for licensed disposal. Avoid dust formation
7.	HANDLING AND STORAGE	
	Precautions for Safe Handling	Avoid contact with skin and eyes. Provide exhaust ventilation in areas where dust if formed
	Precautions for Safe Storage	Keep container tightly closed and in a dry, well- ventilated place. Recommended storage temperature: -20°C. Hygroscopic.
	Incompatibilities	None known
8.	EXPOSURE CONTROLS/ PERSONAL PROTECTION	
	Contains no substances with occupational e	exposure limit values
	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. Gloves must be 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 a face shield and safety glasses. 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	When deemed needed according to the concentration and amount of this product, use a complete body suit
9.	PHYSICAL/CHEMICAL PROPERTIES	
	Appearance	Off-white powder
	pH	No data available
	Melting Point/Freezing Point	130-135°C
	Boiling Point	No data available
	Flash Point	No data available
	Ignition Temperature	No data available
	Autoignition Tomporatura	No data available

- Autoignition Temperature
- No data available No data available

Lower Explosion Limit Upper Explosion Limit Vapor Pressure Density Water Solubility Solubility in Other Solvents

Partition Coefficient: n-octanol/water Relative vapor density Odor Odor Threshold Evaporation Rate

# **10. STABILITY AND REACTIVITY**

Chemical Stability Possibility of Hazardous Reactions Conditions to Avoid Materials to Avoid Hazardous Decomposition Products

#### **11. TOXICOLOGICAL INFORMATION**

Oral LD<sub>50</sub> Inhalation LC<sub>50</sub> Dermal LD<sub>50</sub> Intraperitoneal LD<sub>50</sub> Intraperitoneal LD<sub>50</sub>

Skin Corrosion/Irritation Serious Eye Damage/ Eye Irritation Respiratory or Skin Sensitization Germ Cell Mutagenicity Carcinogenicity

Reproductive Toxicity Teratogenicity Specific Target Organ Toxicity: Single Exposure (Globally Harmonized System) Specific Target Organ Toxicity: Repeated Exposure (Globally Harmonized System) Aspiration Hazard Potential Health Effects No data available No data available No data available No data available Freely soluble Methanol: freely soluble DMSO: freely soluble Ethanol: freely soluble No data available No data available No data available No data available No data available

Stable under recommended storage conditions No data available Moisture Strong oxidizing agents Carbon and Nitrogen oxides formed under fire conditions

# Mouse: 20,000 mg/kg

Rat: >5,000 mg/kg No data available Rat: 10,000 mg/kg No data available Mouse: >13,000 mg/kg Rat: 7,200 mg/kg No data available No data available No data available No data available No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible, or confirmed human carcinogen by IARC, ACGIH, NTP, or OSHA No data available No data available No data available

# No data available

No data available See Section 2, Hazard(s) Identification Signs and Symptoms of Exposure

Synergistic Effects Additional Information

# **12. ECOLOGICAL INFORMATION**

Toxicity Persistence and Degradability

Bioaccumulative PotentialNoMobility in SoilNoPBT and vPvB AssessmentNoTreat as if harmful if released into environment

Aminoglycosides are associated with significant nephrotoxicity and ototoxicity No data available RTECS: LX8920000

LC<sub>50</sub> (96h) carp: 10mg/L Undergoes rapid microbial degradation in soil Half-life is under 5 hours No data available No data available No data available

13.	DISPOSAL CONSIDERATIONS	
	Product	Dispose of product through a licensed disposal company
	Contaminated Packaging	Dispose of as unused product
14.	TRANSPORTATION INFORMATION	
	DOT (US)	Not Dangerous Goods
	IMDG	Not Dangerous Goods
	ΙΑΤΑ	Not Dangerous Goods
15. REGULATORY INFORMATION		
	OSHA Hazards	None
	SARA 302 Components	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
	SARA 313 Components	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313
	SARA 311/312 Hazards	None
	Massachusetts Right to Know Components	No components are subject to the Massachusetts Right to Know Act
	Pennsylvania Right to Know Components	No components are subject to the Pennsylvania Right to Know Act
	New Jersey Right to Know Components	No components are subject to the New Jersey Right to Know Act
	California Prop. 65 Components	This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm
	Canada Information	Identifier: [100986-85-4] This substance is not specified on any list. There is no control measure imposed on this substance

**EU** Information

SDS in accordance with REACH 1907/2006 ECHA Pre-Registered Substance EC List Number [609-372-4] CAS-Number [37248-47-8] Name: D-chiro-Inositol, 1,5,6-trideoxy-4-O-β-Dglucopyranosyl-5-(hydroxymethyl)-1-[[(1S,4R,5S,6S)-4,5,6-trihydroxy-3-(hydroxymethyl)-2-cyclohexen-1-yl]amino]-Synonym: Validamycin Envisaged Registration Deadline: 31/05/2018 See GHS Information under Section 2, Hazard Identification

# **16. OTHER INFORMATION**

Date of last revision: 2016-04-29

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. TOKU-E Company shall not be held liable for any damage resulting from handling or from contact with the above product. Please see reverse side of invoice or packing slip for additional terms and conditions of sale.