



Hangzhou Tianlong Biotechnology Co., Ltd.

Add: Room 1906, Fengqi Times Tower, No.338, Fengqi East Road, Hangzhou, Zhejiang, China.

MATERIAL SAFETY DATA SHEET

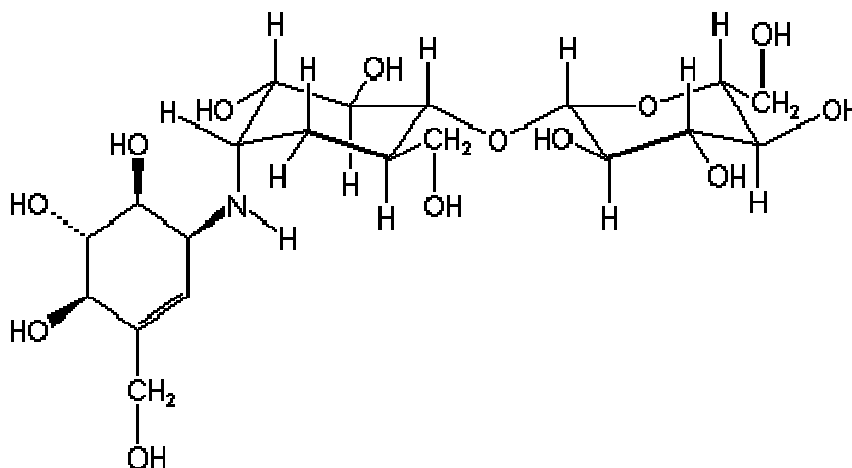
1. Chemical Product and company Identification

Product Name: Validamycin

Molecular Formula: $C_{20}H_{35}NO_{13}$

Molecular Weight: 497.5

Structural Formula:



Chemical Name: 1,5,6-Trideoxy-3-O-B-D-Glucopyranosyl-5-hydroxymethyl-1-((4,5,6-Trihydroxy-3-Hydroxymethyl)-2-cytoh exen-1-yl)amino)D-chiro-Inositol

CAS No.: 37248-47-8

Supplier: HANZHOU TIANLONG BIOTECHNOLOGY CO., LTD

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2. Composition / Information On Ingredients

Composition	CAS No.	Content %
Validamycin	37248-47-8	60.0
Other ingredients		40.0

3. Hazards Identification

Non-systemic antibiotic with fungistatic action.

May be harmful if swallowed, inhaled or absorbed through skin.

4. First Aid Measures

If swallowed, wash out mouth with water provided person is conscious.
Call a physician.

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

5. Fire-Fighting Measures

Special fire fighting procedures: wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual fire and explosion hazards: emits toxic fumes under fire conditions.

Move containers away from fire area and shut off ignition sources, stop leakage if possible without risk. Extinguish fire with dry chemicals, carbon dioxide, halon, water spray or standard foam. Take up spills with sand or other absorbent material and place into containers, for large spills, dike far ahead of spill.

6. Accidental Release Measures

Evacuate and ventilate the area

Wear respirator and protective clothing

Sweep up dry, place in bag and hold for waste disposal

Ventilate area and wash spill site after material pick-up is complete

Avoid generation of dusts.

7. Handling and Storage

Handling: Read the label before use. Avoid contact with skin and clothing. After work, remove protective clothing and equipment, wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Clean up spilled material immediately, and wash clothes, equipment and work area after use.

Storage: Store in tightly closed original container in a cool, dry well-ventilated area out of direct sunlight when not in use. This product can be stored in an unheated building. Do not store with food, feed stuffs, fertilizers and seeds.

8. Exposure Controls/Personal Protection

Mechanical exhaust required: Safety shower and eye bath.

Wash thoroughly after handling. Do not breathe dust. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure.

NIOSH/MSHA- approved respirator. Compatible chemical-resistant gloves.

Chemical safety goggles. Store in a cool dry place. Keep tightly closed.

Personal Protective Equipment:

Overalls made of a tight fabric or polyvinyl chloride, gloves and rubber boots. They must wear a respirator with an activated-carbon gas filter cartridge. Employees must wear splash proof dust resistant safety goggles & face shield.

9. Physical and Chemical Properties

Appearance: Colorless powder with odorless

Melting point: 130-135°C

Solubility in water: Readily soluble in water.

Solubility in other solvents: Soluble in methanol, dimethylformamide, and dimethyl sulfoxide. Slightly soluble in ethanol and acetone

Vapor Pressure: Negligible at room temperature.

Partition Coefficient: Not Available

10. Stability and Reactivity

It is stable at room temperature in neutral or alkaline media. It is slightly unstable in acidic media. Valdamycin is non-corrosive.

Materials to avoid: water

Hazardous decomposition or byproducts: none

Hazardous polymerization: will not occur

11. Toxicological Information

Acute Toxicity

Oral: LD50 mouse >2g/kg, LD50 rat >20g/kg

Subcutaneous: LD50 rat >5g/kg

Inhalation: May cause irritation Eye irritation: May cause irritation

Skin Irritation: May cause irritation

Sensitization: Possible sensitivity in some individuals

Chronic toxicity: Practically non-toxic in rats. No observed effect level (NOEL) during 2 years: 40.4 mg/kg daily

Carcinogenicity: Not known

Mutagenicity: Not known

12. Ecological Information

Effects on Birds: No data are currently available.

Effects on Aquatic Organisms: Validamycin is relatively non-toxic to fish. The LC50 (96 hrs) for carp is 10 mg/l.

Effects on Other Animals (Nontarget species): Valid mycin is not toxic to bees.

13. Disposal Considerations

Liquid formulations may be reduced to solid phase by evaporation. Dry sweeping of solids is always hazardous: these should be removed by vacuum cleaning or by dissolving them in water or other solvent in the factory environment

14. Transport Information

This material is considered to be non-hazardous for transport

15. Regulatory Information

Wear suitable protective clothing, gloves and eye/face protection. Keep away from food, drink and animal feeding stuff. When using do not eat, drink or smoke.

16. Other Information

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear. It is the responsibility of persons on receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produce formulations containing this product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.