

COCREATE GLOBAL TECHNOLOGIES PRIVATE LIMITED

U21009KA2023PTC179006

Registered address: FFK Towers, #445, 2nd Floor, 17th Cross Road, Sector 4, HSR Layout, Bangalore, Bangalore South, Karnataka - 560102, India.

Email: info@scimplify.com

Website: www.scimplify.com



SAFETY DATA SHEET

Validamycin 3% L

1. IDENTIFICATION OF CHEMICAL PRODUCT AND COMPANY

- **Product Name:** Validamycin 3% L
- **Common Name:** Validamycin (Active Ingredient)
- **Chemical Name:**
(1R,2R,3S,4S,6R)-2,3-dihydroxy-6-hydroxymethyl-4-[(1S,4R,5S,6S)-4,5,6-trihydroxy-3-hydroxymethylcyclohex-2-enylamino]cyclohexyl 1-D-glucopyranoside
- **Chemical Formula:** C₂₀H₃₅NO₁₃
- **Molar Mass:** 497.49 g/mol
- **Use:** Fungicide/Antibiotic for Agricultural Use
- **Manufacturer/Supplier:** Cocreate Global Technologies Private Limited

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Proportion
Validamycin	37248-47-8	3%
Polyoxyethylene Nonyl Phenyl Ether	9016-45-9	2%
Silicon KM-32	6841-54-4	0.01%
Potassium Sorbate	24634-61-5	0.05%
Acid Green Dye	12217-29-9	0.01%

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3. HAZARD IDENTIFICATION

- **Hazards:**
 - **Harmful if swallowed**
 - **Harmful to aquatic organisms**, may cause long-term adverse effects in the environment
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4. FIRST AID MEASURES

- **General Instructions:**
 - Remove patients from the danger zone.
 - If unconscious, place in a **stable lateral position**.
 - Remove contaminated clothing immediately.
 - **After Skin Contact:** Wash skin with **copious amounts of water and soap**.
 - **After Eye Contact:** Rinse eyes **thoroughly with water** and consult an eye specialist.
 - **After Swallowing:** **Call a doctor immediately**.
 - **Information for Physician:**
 - **Treatment:** Basic aid, **decontamination**, symptomatic treatment.
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5. FIRE-FIGHTING MEASURES

- **Extinguishing Media:**
 - Sprayed **water jet, foam, extinguishing powder, CO₂, sand**.
- **Firefighting Instructions:**
 - Fight fire **only if safe to do so**.
 - Wear **respiratory protection**:
 - **Open areas:** Full-face mask with combination filter
 - **Enclosed areas:** Respirator with **independent air supply**

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- **Hazardous Fire Products:**

- Carbon monoxide (CO)
 - Toxic gases
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6. ACCIDENTAL RELEASE MEASURES

- **Personal Protection:**

- Wear **appropriate PPE** (gloves, masks, boots, etc.)

- **Environmental Protection:**

- **Prevent entry** into drains, water bodies, and soil.

- **Cleanup Procedure:**

- Absorb spill using **sawdust, peat, chemical binder**.
 - Collect material in **sealed containers**.
 - Use a **damp cloth** to clean contaminated surfaces.
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7. HANDLING AND STORAGE

- **Safe Handling:**

- Store in **HDPE (High-Density Polyethylene) containers**.
- **Prevent leakage and contamination**.

- **Storage Conditions:**

- Keep in a **dry place**.
 - **Temperature Range:** -10°C to 40°C
 - Keep away from **food, drinks, and animal feed**.
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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- **Engineering Controls:**
 - Use ventilation systems to avoid contact.
- **Personal Protective Equipment (PPE):**
 - **Eye Protection:** Safety goggles or face shield
 - **Clothing:** Cotton overalls with a **washable hat**
 - **Gloves:** Elbow-length PVC gloves
 - **Respiratory Protection:** Not required unless in **dusty or high exposure environments**.
 - **Hygiene:**
 - Wash hands, arms, and face with **soap and water** after handling.
 - Clean all protective gear daily.

9. PHYSICAL AND CHEMICAL PROPERTIES

- **Appearance:** Green colored liquid
- **Odor:** Characteristic odor
- **Solubility:** Soluble in water
- **Boiling Point:** No data available
- **Melting Point:** 130 – 135°C (Validamycin tech)
- **Vapor Pressure:** No data available
- **Volatility:** No data available
- **Evaporation Rate:** No data available
- **Vapor Density:** No data available
- **Specific Gravity:** 1.025 - 1.035
- **Flash Point:** Not applicable

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- **pH: 3.0 – 4.0**
 - **Flammability Limits:** No data available
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10. STABILITY AND REACTIVITY

- **Stability:**
 - Stable at **room temperature** in neutral or **alkaline conditions**.
 - Slightly **unstable in acidic conditions**.
 - **Corrosivity:** Non-corrosive
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11. TOXICOLOGICAL INFORMATION

- **Acute Toxicity:**
 - **LD50 (Oral, Rats): 20,000 mg/kg**
 - **LD50 (Oral, Mice): 2,000 mg/kg**
 - **LD50 (Dermal, Rats): >5,000 mg/kg**
 - **Skin Irritation:** Non-irritant
 - **Mutagenicity:** Not mutagenic
 - **Organ Toxicity:** No available data
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12. ECOLOGICAL INFORMATION

- **Toxicity to Fish:**
 - **LC50 (96h, Carp): 10 mg/L**
- **Toxicity to Bees:**
 - **Non-toxic** to bees
- **Environmental Fate:**
 - Undergoes **rapid microbial degradation** in soil

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- **Half-life:** <5 hours
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13. DISPOSAL CONSIDERATIONS

- **Disposal Instructions:**
 - Follow **local government regulations** for disposal.
 - **Rinse empty containers** before disposal.
 - Puncture and dispose of in **landfill or domestic waste**.
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14. TRANSPORT INFORMATION

- **DOT (US):** Not regulated
 - **IATA (Air Transport):** Not regulated
 - **WHO Classification:** U (Unclassified)
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15. REGULATORY INFORMATION

- **Regulatory Restrictions:** Not applicable
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16. OTHER INFORMATION

- **MSDS Disclaimer:**
 - **The information provided is based on available knowledge** at the time of publication.
 - The manufacturer **disclaims liability** for loss/damage resulting from misuse.