

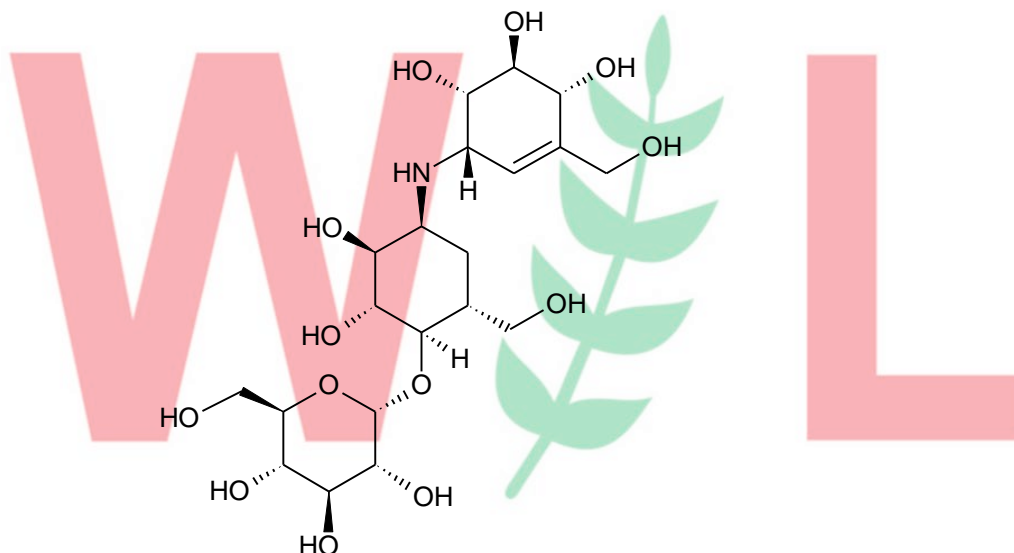


## Material safety data sheet VALIDAMYCIN 3% L

### SECTION 1 : CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product Details

Product Name : Validamycin 3% L  
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  
Common Name : Validamycin (active ingredient)  
Use : Fungicide/Antibiotic for Agriculture use  
Chemical Formula :  $C_{20}H_{35}NO_{13}$   
Molar Mass : 497.49  
Chemical Type : Fungicide  
Chemical Structure :



#### 1.2 Company Identification

##### Manufacturer

Name and Address: Shreeji Pesticides Pvt. Ltd.  
Unit-1, 69/P, Vil. Manjusar, Tal Savli, Dist. Vadodara  
Unit-II, 73/P, Vil. Manjusar, Tal. Savli, Dist. Vadodara  
Telephone Number: 0267-264701/2/3/4

### SECTION 2 : COMPOSITION/INFORMATION ON INGREDIENT

Chemical Name	CAS No.	Proportion	Exposure Limit	Toxicity Data
Validamycin	37248-47-8	3%	Refer to Section 9	Refer to Section 11
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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### SECTION 3: HAZARD IDENTIFICATION

Harmful if swallowed.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### SECTION 4 : FIRST AID MEASURES

GENERAL INFORMATION:

Remove patients from the danger zone. If there is a risk of unconsciousness, position and transport in stable lateral position. Remove soiled or soaked clothing immediately.

FOLLOWING SKIN CONTACT: Wash skin immediately with copious amounts of water and soap.

FOLLOWING EYE CONTACT: Rinse eyes thoroughly with water. Consult an eye specialist.

UPON SWALLOWING: Call emergency doctor immediately.

INFORMATION FOR THE PHYSICIAN:

See information on toxicology.

Therapeutic measures: Basic aid, decontamination, symptomatic treatment.

### SECTION 5 : FIRE FIGHTING MEASURES

Extinguishing media: sprayed water jet, foam, extinguishing powder, CO<sub>2</sub>, sand.  
Fight fire in early stages if safe to do so.

Wear respiratory protection.

Well ventilated areas: full face mask with combination filter, (offers no protection from carbon monoxide!)

Enclosed premises: respirator with independent air supply.

Contain fire fighting water..

### SECTION 6 : ACCIDENTAL RELEASE MEASURE

Use the personal protective equipment listed. Prevent entry into drains, waters or soil. Take up spilled product with absorbent material (e.g. sawdust, peat, chemical binder). Fill materials taken up into closable container. To clean the floor and all objects contaminated by this material, use damp cloth. Also place used cleaning materials into closable receptacles.

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### SECTION 7 : HANDLING AND STORAGE

#### INFORMATION ON SAFE HANDLING:

Suitable container materials: HDPE (high density polyethylene).

Make provision for product and fire-fighting water to be retained.

#### INFORMATION ON STORAGE:

To maintain quality, store in a dry place and protect from temperatures below -10 and above 40 °C. Keep away from food, drink and animal feeding stuffs.

### SECTION 8 : EXPOSURE CONTROL AND PERSONAL PROTECTION

Engineering controls: Control process conditions to avoid contact. Use local exhaust ventilation during manufacture. Use in a well ventilated area only.

Personal Protective Equipment: To avoid eye and skin contact, wearing the following personal protective clothing and equipment is recommended:

Eyes: Clothing: Gloves: Respiratory: Other: Safety goggles or face shield

Cotton overalls buttoned to the neck and wrist and a washable hat Elbow length PVC gloves  
Respiratory protection is not normally required.

If airborne concentrations are likely to exceed the exposure standard above, an AS/NZS 1715/1716 approved respirator should be worn.

After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use wash gloves, goggles or face shield and contaminated clothing.

### SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

Appearance :	Green coloured liquid
Odour :	Characteristic odour
Solubility :	Soluble in water
Boiling Point :	No data available
Melting Point :	130 – 135 °C (Validamycin tech)
Vapour Pressure :	No data available
Percentage Volatiles:	No data available
Evaporation Rate:	No data available
Vapour Density:	No data available
Specific Gravity:	1.025 - 1.035



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Flash Point :	Not applicable
Autoignition:	No data available
pH as such	3.0 – 4.0
Flammable limit:	No data available
Partition coefficient:	No data available

### SECTION 10 : STABILITY AND REACTIVITY

It is stable at room temperature in neutral or alkaline media. It is slightly unstable in acidic media.

Validamycin is non-corrosive.

### SECTION 11 : TOXICOLOGICAL INFORMATION

#### TOXICOLOGICAL EFFECTS

Acute Toxicity: Validamycin is practically non-toxic. The dose which kills half of the test animals, the LD50, is 20,000 mg/kg for rats and 2,000 mg/kg in mice (364). For skin exposure, the LD50 is greater than 5 gm/kg in rats. It is non-irritating to skin when tested on rabbits (243).

Mutagenic Effects: Spot tests and other studies of potential affects to DNA of Bacillus subtilis indicate that validamycin is not mutagenic (365).

Organ Toxicity: No information currently available.

### SECTION 12 : ECOLOGICAL INFORMATION

Effects on Aquatic Organisms: Validamycin is relatively non-toxic to fish. The LC50 (96hrs) for carp is 10 mg/l (1).

Effects on Other Animals (Nontarget species): Validamycin is not toxic to bees (1).

### ENVIRONMENTAL FATE

Breakdown of Chemical in Soil and Groundwater: Validamycin undergoes rapid microbial degradation in soil. The half-life is less than 5 hours (1).

### SECTION 13 : DISPOSAL INFORMATION

Refer to local government authority for disposal recommendations. Rinse empty container, puncture and recycle or dispose of safely with domestic rubbish

### SECTION 14 : TRANSPORT INFORMATION

DOT Classification: Not regulated.

IATA - Not regulated.

WHO Classification: U



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**SECTION 15 : REGULATORY INFORMATION**  
Not applicable

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**SECTION 16 : OTHER INFORMATION**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification, since the conditions of the operations mentioned are beyond our control. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text. Willowood disclaims any liability for loss or damage resulting from the use of these data, information or suggestions

