



SHREEJI PESTICIDES PVT. LTD  
(A SUBSIDIARY OF WILLOWOOD CHEMICALS PVT. LTD)

## Material safety data sheet

**HEXACONAZOLE 5% + VALIDAMYCIN 2.5%SC**

### 1. IDENTIFICATION OF COMPANY & PRODUCT

**Product Name** : Hexaconazole 5 + Validamycin 2.5% SC  
**Chemical Name** : **Hexaconazole:** (RS)-2-(2, 4-dichlorophenyl)-1-(1H-1, 2, 4-triazol-1-yl) hexan-2-ol.  
: **Hexaconazole:** (1R,2R,3S,4S,6R)-2,3-dihydroxy-6-hydroxymethyl-4-[(1S,4R,5S,6S)-4,5,6-trihydroxy-3-hydroxymethylcyclohex-2-enylamino]cyclohexyl1-D-glucopyranoside  
**Uses** : FUNGICIDES  
**Molecular Formula** : **Hexaconazole:** C<sub>14</sub>H<sub>17</sub>Cl<sub>2</sub>N<sub>3</sub>O , **Validamycin:**C<sub>20</sub>H<sub>35</sub>NO<sub>13</sub>  
**Manufacturer** : SHREEJI PESTICIDES PVT. LTD.  
**Address** : Plot No. 69/P, Village - Manjusar, Tal. Savli, Dist - Vadodara - 391775  
Gujarat, India :  
**Tele Fax Number** 91 2667 264701

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical Name                      | Cas #      | Percent Or Content(W/W) |
|------------------------------------|------------|-------------------------|
| Hexaconazole (based on 92% purity) | 79983-71-4 | 5.43 %                  |
| Validamycin (based on 64% purity)  | 37248-47-8 | 3.91%                   |
| Other ingredients                  | -          | 90.66 %                 |

### 3. HEALTH HAZARDS IDENTIFICATION

**Eye contact** : Non-irritant to mucous membrane of eyes of rabbits.  
**Skin contact** : Non-irritant to skin of rabbits.  
**Ingestion** : Harmful if swallowed.  
**Environment** : Dangerous for the environment. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### 4. FIRST AID MEASURES

**Eyes** : Dangerous for the environment. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
**Skin** : Carefully remove contaminated clothing. Wash affected area with soap and water. Seek medical aid if required.  
**Ingestion** : If the material was swallowed and signs of toxicity are severe, induce vomiting. Keep the person calm and comfortable and obtain medical assistance as soon as



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**Inhalation** : possible.  
: If inhaled, remove to fresh air and keep at rest. Obtain medical aid if required.

### 5. FIRE FIGHTING MEASURES

**Flash point** : Non-flammable

**Special exposure**

**Hazards** : Combustion or thermal decomposition will evolve toxic and irritant vapors.

**Suitable**

**Extinguishing Media** : If product is involved in a fire, use water spray, foam, dry powder, carbon dioxide or sand.

**Fire fighting**

**Precaution** : Do not breathe fumes. Wear self-contained breathing apparatus.

**Fire fighting**

**Guidance** : Whenever Hexaconazole is involved in a major fire, advise the fire service to wear protective clothing and breathing apparatus. Inform the fire service and other relevant authorities that Hexaconazole is toxic to aquatic organisms, and that water should be used only to cool unaffected stock. In this way, the accumulation of polluted run-off from the site is prevented.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precaution** : Avoid contact with spilled material or contaminated surfaces. If ordinary clothing becomes contaminated remove it immediately. When dealing with the spillage do not eat, drink or smoke and wear personal protective clothing.

**Environmental**

**Precautions** : Keep people and animals away. Prevent entry into drains, sewers and watercourses

**Methods and material for containment cleaning up:** Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal. Wash the spillage area with water. Washings must be prevented from entering surface water drains.

### 7. HANDLING AND STORAGE

**Handling** : Wear chemically impervious gloves such as neoprene or nitrile. Wear safety glasses, goggles or face shield. Mechanical ventilation should be used when handling



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this product in enclosed spaces. Read and observe all precautions and instructions on the label.

**Storage** : Store in original containers, upright and closed. Store in areas that are cool, dry and well ventilated. Store away from seeds, fertilizers and animal feed stuff.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering controls** : Mechanical ventilation should be used when handling this product in closed spaces.

**Respiratory protection**: NIOSH approved organic vapor respirator in absence of mechanical ventilation.

**Eye protection** : Wear safety goggles with imperforated side shield and face shield.

**Hand Protection** : Wear chemical resistant gloves.

**Skin Protection** : Avoid contact with skin. Wear apron, boots and full protective suit.

**Environmental exposure controls**: Keep away from food, drink and animal feed stuff. This material and its container must be disposed of as hazardous waste. Avoid release to the environment.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** : white

**Physical state** : liquid

**Odor** : Odorless

**Stability in water** : emulsify in water

**Density** : 1.05 g/ml

### 10. STABILITY AND REACTIVITY

**Stability** : Stable for two years at ambient conditions

**Conditions to avoid** : Avoid excessive heat and flame

**Incompatibilities** : Strong acidic / alkaline materials

**Materials to avoid** : None under normal condition of use

#### Hazardous decomposition

**Products** : Thermal decomposition may release ammonia, carbon monoxide and carbon dioxide and oxides of nitrogen.



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### 11. TOXICOLOGICAL INFORMATION

#### Hexaconazole :

**Acute Oral Toxicity** : LD50 (rats) > 2000 mg/kg

#### Acute Dermal

**Toxicity** : LD50 (Rats) > 2,000 mg/kg b.w

**Acute Inhalation** : LC50 (rats) : >5.9 mg/l

**Eye Irritation** : Rabbit : Moderate Irritant

**Skin Irritant** : Non irritant

**Skin sensitization** : Non sensitizer

#### Validamycin:

##### 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.

### 12. ECOLOGICAL INFORMATION

**Birds** : Acute oral LD50 for (8 d) for Mallard ducks >4000 mg/kg

**Fish** : LC50 (96 h) for Rainbow trout 3.4 mg/l, Mirror carp 5.94 mg/l Sheep head minnows 5.4 mg/l

**Bees** : LD50 (Oral, Contact, 48 h) : 0.1 mg / bee

### 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method** : Do not empty into drains or waterways. Disposal of product would usually be by incineration in an appropriate licensed commercial incinerator. Advice may be obtained from local waste regulation authorities.

**Container Disposal Method** : Lightly contaminated packaging may be accepted for landfill, otherwise incineration will be required.



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### 14. TRANSPORT INFORMATION

#### Rail/Road (RID/ADR)

Proper Shipper Name : PESTICIDE LIQUID, TOXIC, N.O.S  
Class : 6.1  
UN No. : 2902  
Packing Group : III

#### Sea (IMDG – Code)

Proper Shipper Name : PESTICIDE LIQUID, TOXIC, N.O.S

Class : 6.1  
UN No. : 2902  
Packing Group : III  
Marine Pollutant : Yes

#### Air (ICAO/IATA)

Proper Shipper Name : PESTICIDE LIQUID, TOXIC, N.O.S  
Class : 6.1  
UN No. : 2902  
Packing Group : III

**Packing Instructions** : Packing instructions on sea: P001/LP01 Packing instructions on air: Y611/618

### 15. REGULATORY INFORMATION

**Symbol** : Xn : Harmful  
**Special Risks (R-Phrases)** : R22 : Harmful if swallowed.  
R51/5 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

#### Safety Advice

**(S- Phrases)** : S 2 : Keep out of the reach of children  
S24/25 : Avoid contact with skin and eyes..  
S36/37 : Wear suitable protective clothing and gloves  
S57 : Use appropriate containment to avoid environmental contamination.  
S60 : This material and its container must be disposed of as hazardous waste.  
S61 : Avoid release to the environment. Refer to special instructions/safety data sheets.

#### International WHO

**Toxicity** : IV : Non-toxic Classification



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### 16. OTHER INFORMATION

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if we have been advised of the possibility of such damages.

