

## **MATERIAL SAFETY DATA SHEET**

Spectrum Ethers Limited  
Rasegaon Village, Nasik (M.S.)  
Country: India, Pin-422202  
Emergency Phone: 02557-228000

### **1. Product and Company identification:**

Product name : Hexaconazole Technical  
Chemical/Common Name :  $\alpha$ -butyl- $\alpha$ -(2, 4-dichlorophenyl)-1*H*-1, 2, 4-triazole-1- ethanol.  
Chemical Formula : C<sub>14</sub>H<sub>17</sub>Cl<sub>2</sub>N<sub>3</sub>O  
Chemical Family : Triazole  
CAS Number : 79983-71-4

### **2. Composition / Information On Ingredients :**

<b>Chemical Name</b>	<b>CAS No.</b>	<b>Percent or Content</b>
Hexaconazole	79983-71-4	Min 92 %

### **3. Health Hazards Identification:**

**Physical/chemical hazards** : Non Flammable.  
**Human health hazard** : Irritating to eyes and skin May cause sensitization by skin contact May cause damage if aspirated into the lungs  
**Environmental hazards** : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

### **4. First Aid Measures:**

**Eyes** – Remove contact lenses. Hold eyelids apart. Immediately flush eyes with plenty of low-pressure water for at least 15 minutes. Get immediate medical attention.

**Skin** – Remove contaminated clothing. Wash thoroughly with soap and water. Get medical attention if irritation develops or persists.

**Inhalation:** Remove Victim to fresh air. Keep victim warm and rest. Immediately consult a doctor.

**Ingestion:** Wash out mouth with water Do NOT induce vomiting. Get immediate medical attention.

#### **5. Fire Fighting Measures:**

**Fire** - Not expected to be a fire hazard.

**Explosion**- Not identified.

**Suitable Extinguishing Media** - Use water spray, dry chemical, foam CO<sub>2</sub> or clean extinguishing agents.

**Flammability Properties** - This material is not expected to support combustion.

#### **6. Accidental Release Measures.**

**Personal precautions:** Wear suitable protective clothing, gloves and eye/face protection. During cleaning activity, shut off ignition sources.

**Environmental precautions:** Dispose of this material and its container at hazardous or special waste collection point, if the product has contaminated surface water, inform the appropriate authorities.

**Methods for cleaning up:** Absorb in sand or other inert material. Use appropriate containment to avoid environmental contamination. In the event of major spillage: Collect and contain as much free liquid as possible. Dike spills using absorbent or impervious materials such as sand or clay for later disposal.

#### **7. Handling and storage:**

**Handling:** Use appropriate (impervious) clothing, gloves and closed foot ware to prevent the repeated contact with skin Use flash proof and dust resistant goggles to prevent the contact with eyes.

**Storage:** Keep the product in original container tightly closed and correctly labeled. Store in suitable, cool, dry, well ventilated place under lock and key; away from the reach of the children, animals, food and animal feeding stuffs. Store away from the incompatible substances and source of ignition.

#### **8. Exposure Control/Personal Protection:**

**Ingestion:** Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material.

**Eye protection:** where eye contact is likely, use chemical splash goggles. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

**Skin protection:** Where contact is likely wear chemical-resistant gloves, coverall, socks and chemical-resistant footwear.

**Inhalation:** Use approved chemical cartridge respirator with organic vapour cartridges and pre-filters or a supplied respirator.

#### **9. Physical and Chemical properties:**

<b>Physical State</b>	: Off-White to Pale Yellow Solid
<b>Odour</b>	: Odourless
<b>Specific gravity</b>	: 1.29 at 25° C
<b>Vapour pressure</b>	: 0.018 mPa at 20°C
<b>Evaporation Rate</b>	: slower than butyl acetate
<b>Vapour Density</b>	: lighter than air
<b>Solubility in water</b>	: soluble
<b>PH value</b>	: 6.95
<b>Melting Point</b>	: 115° C

#### **10. Stability and Reactivity:**

<b>Chemical stability</b>	: Stable under normal condition.
<b>Hazardous Polymerization</b>	: Not anticipated under normal handling
<b>Incompatibilities</b>	: Incompatible with oxidizing agent

#### **11. Toxicological information:**

<b>Acute oral Toxicity</b>	: LD <sub>50</sub> (Rat) 2,189 mg/kg.
<b>Acute dermal Toxicity</b>	: LD <sub>50</sub> (Rat) 2,000 mg/kg.
<b>Eye irritant</b>	: Rabbit: moderate irritation.
<b>Skin irritant</b>	: Rabbit: mild irritant

#### **12. Ecological Information:**

This product is toxic to aquatic organisms. This product is readily biodegradable in soil. It will not accumulate in the soil or water or cause long term problems.

Quail acute oral LD50 : >4000mg/kg  
Rainbow trout LC50 (96h):3.4mg/l  
Daphnia LC50 (48h): 2.9mg/l  
Bee LD50 (48h) : >0.1mg/bee (oral and contact)

### 13. Disposal Considerations:

Waste Disposal Method:

Dispose in an approved pesticide facility. Waste water containing this product can be treated in an acclimated biological treatment system. Disposal should be in accordance with applicable federal, State and Local regulations

### 14. Transport Information:

Proper shipping name.	Pesticide Solid, Toxic NOS
UN Number	2588
Marine Pollutant	Yes
Class	6.1
Flash Point	Non flammable
Hazard Label	TOXIC
Packing Instruction	P002
First Aid Code	NA

### 15. Regulatory Information:

#### Classification

This product is provisionally labeled by the supplier in accordance with suppliers understanding of the EU regulations:

**Risk phrases:**

- : Flammable.
- : Irritating to eyes and skin.
- : May cause sensitization by skin contact.
- : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### Safety phrases

- : Avoid contact with skin.
- : Wear suitable protective clothing, gloves and eye/face protection.

: In case of contact with eyes, rinse immediately with plenty of water & seek medical advice.

<b>16. <u>Other Information:</u></b>
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**Disclaimer:**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. 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.