

## **MATERIAL SAFETY DATA SHEET**

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

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

Product name : Difenoconazole Technical  
 Chemical Name : 1H-1, 2, 4-Triazole, 1-[[2-[2-chloro-4-(4-chlorophenoxy) phenyl]-4-methyl-1, 3-dioxolan-2-yl] metyl]  
 Chemical Formula : C19H17Cl2N3O3  
 Chemical Family : Triazole  
 CAS Number : 119446-68-3

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

Chemical Name	CAS No.	Percent or Content
Difenoconazole	119446-68-3	Min 95 %

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

**Symptoms of Acute Exposure :** May cause eye irritation.

**Hazardous Decomposition Products :** can decompose at high temperatures forming toxic gases.

**Unusual Fire Explosion and Reactivity Hazards :** nt During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

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

**General** - Remove the affected person from the danger zone to a well-ventilated room or to fresh air, and protect from under cooling. In case of suspected poisoning: Immediately call a physician.

**Eyes** – Remove contact lenses. Hold eyelids apart. Immediately flush eyes with plenty of low-pressure water foe 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 persist.

**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:**

**Protective Equipment for Fire Fighting** - Use self contained breathing apparatus.

**Explosion-** Not identified.

**Suitable Extinguishing Media** - Dry chemical extinguisher, foam, carbon dioxide or water spray (do not use direct jet of water).

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

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

**Personal precautions:**

Use personal protective equipment. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

**Environmental precautions:**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**Methods for cleaning up:**

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for 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. Wash thoroughly with soap and water after handling.

**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 (such as nitrile or butyl), coverall, socks and chemical-resistant footwear. For overhead exposure wear chemical resistant headgear.

**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>	: White colour Solid powder
<b>Odour</b>	: No Characteristic Odour
<b>Bulk Density</b>	: 0.800 gm/cm <sup>3</sup>
<b>Vapour pressure</b>	: 3.3 X 10 <sup>-5</sup> mPa (25 °C)
<b>Vapour Density</b>	: Not known
<b>Solubility</b>	: In water 15 mg/l (25 °C). In ethanol 330, acetone 610, toluene 490, <i>n</i> -hexane 3.4, <i>n</i> -octanol 95 (all in g/l, 25 °C).
<b>PH value</b>	: 5 – 8 (in 1% deionised water)
<b>Melting Point</b>	: 82 °C
<b>Flash Point</b>	: 64 °C
<b>Partition coefficient</b>	: KOW log P=4.20 at 25 °C

### 10. Stability and Reactivity:

Chemical stability	: Product is Stable at ambient under condition of storage.
Hazardous Polymerization	: Will not occur
Incompatibilities	: Incompatible with strong oxidizing agent
Hazardous Decomposition	: Decompose at high temperature forming toxic gases.

### 11. Toxicological information:

Acute oral Toxicity	: LD <sub>50</sub> (Rat) 1453 mg/kg.
Acute dermal Toxicity	: LD <sub>50</sub> (Rat) 2,010 mg/kg.
Inhalation	: LC <sub>50</sub> (Rat) 4 hr – 3300 mg/m <sup>3</sup>

Eye irritant : Rabbit: moderate irritation.

Skin irritant : Rabbit: non 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.

Mallard acute oral LD50 (9-11 d): >2150 mg/kg

Rainbow trout LC50 (96h): 0.81 mg/l

Earth worm LC50 (14D) : >610mg/l soil

## 13. Disposal Considerations:

Waste Disposal Method:

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

## 14. Transport Information:

Proper shipping name.	Environmentally hazardous Solid NOS
UN Number	3077
Marine Pollutant	Yes
Class	9
Flash Point	Non flammable
Hazard Label	TOXIC
Packing group	III
First Aid Code	NA

## 15. Regulatory Information:

**SARA 302 Components** SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components** SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Components** Acute health hazard.

### Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act..

## 16. Other Information:

**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.