Material Safety Data Sheet

DIFENOCONAZOLE 250g/l EC

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY
Product: Difenoconazole 250g/l EC
Category: Fungicide / Pesticide
Manufacturer: Shanghai Tenglong Agrochem Co., Ltd.
Address: Yangpu building 24B, No.2005, Huangxing Road, Yangpu Shanghai 200433, China
Telephone: +86 21 5506 3225
Fax: +86 21 5506 3699

2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Identity</th>
<th>Description</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Difenoconazole</td>
<td>Active ingredient</td>
<td>250g/l min</td>
</tr>
<tr>
<td>Fatty Alcohol Ethoxylate</td>
<td>Emulsifier</td>
<td>~10g/l</td>
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<tr>
<td>Alkyl benzene Sulphonate</td>
<td>Emulsifier</td>
<td>~60g/l</td>
</tr>
<tr>
<td>Solvent</td>
<td>-</td>
<td>Balance to 1L</td>
</tr>
</tbody>
</table>

3. HAZARDS IDENTIFICATION
Irritating to skin.
Risk of serious damage to eyes.
Toxic to aquatic organisms.
May cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES
Eyes contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.
Skin: Take off all contaminated clothing immediately. Wash off immediately with soap and plenty of water. If symptoms persist, call a physician. Wash contaminated clothing before re-use.
Inhalation: Move to fresh air. If symptoms persist, call a physician.
Ingestion: Do not induce vomiting. Rinse mouth. If conscious, drink plenty of water. If symptoms persist, call a physician.

Note to physician:
Treatment: Treat symptomatically.

5. FIRE FIGHTING MEASURES
Specific hazards during fire fighting: In the event of fire (HCl, Cl₂, CO) may be formed.
6. ACCIDENTAL RELEASE MEASURES

Personal cautions: Wear personal protective equipment.

Cleaning methods: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder). Sweep up and shovel into suitable containers for disposal.

Environmental precautions: Do not flush into surface water or sanitary sewer system.

Additional advice: Never return spills in original container for re-use.

7. HANDLING AND STORAGE

Handing
Safe handing advice: Wear personal protective equipment.

Storage:
Requirements for storage areas and containers: store in original container. Keep containers tightly closed in a cool, well-ventilated place. Protect from frost.

Advice on common storage: Keep out of reach of children. Keep away from food, drink and animal feeding stuffs.

8. EXPOSURE CONTROLS/PERSCIAL PROTECTION

Personal protective equipment

Respiratory protection: No special protective equipment required.
Hand protection: PVC or nitrile-rubber gloves
Eye protection: Safely glasses, or, goggles.
Skin and body protection: Lightweight protective clothing.

Hygiene measures: Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and immediately after handing the product. When using, do not eat, drink or smoke

Protective measures: Avoid contact with skin, eyes and clothing. Keep working clothes separately.
9. PHYSICAL AND CHEMICALS PROPERTIES

Physical state: Amber liquid
Form: Emulsifiable concentrate
Flash point: 75°C
Autoignition temperature: >260°C
Density: 1.06g/cm³ (20°C)
Water solubility: emulsifiable
Partition coefficient: log POW=4.4 at 25°C

10. STABILITY AND REACTIVITY

Conditions to Avoid: none under normal use.
Materials to avoid: strong acids and strong bases.

11. TOXICOLOGICAL INFORMATION

Oral LD50: >2000mg/kg b.w. (Rat)
Dermal LD50: >2000 mg/kg b.w. (Rat)
Skin Irritation –Moderately Irritating (Rabbit)
Eye Irritation –Severe-Irritating (Rabbit)
Sensitization –No sensitizer to Guinea Pig.

12. ECOLOGICAL INFORMATION

Birds LD50 (9-11 d) for mallard ducks >2150, Japanese quail >2000 mg/kg. LC50 for bobwhite quail 4760, mallard ducks >5000 ppm.
Fish LC50 (96 h) for rainbow trout 0.81, bluegill sunfish 1.2, sheepshead minnow 0.82 mg/l, Daphnia LC50 (48 h) 0.77 mg/l.
Algae EC50 (72 h) for Scenedesmus subspicatus 0.032-1.2 mg/l.
Other aquatic spp.: LC50 (96 h) for mysid shrimp 0.15 mg/l; EC50 (96 h) for Eastern oysters 0.45 mg/l; (14 d) for duckweed (Lemna gibba)18.5 mg/l. NOEC (28 d) for reproduction in the sediment dweller, Chironomus riparis 50 mg/kg sediment.
Bees Non-toxic to honeybees; LD50 (oral) >187 g/bee; LC50 (contact) >100 g/bee.
Worms LC50 for earthworms >610 mg/kg.
Other beneficial spp. NOEC (28 d) for reproduction in Collembola (Folsomia candida) 500 mg/kg soil.
Use under field conditions is not expected to result in adverse effects on soil
micro-organisms or on soil and foliar dwelling non-target arthropods.

13. DISPOSAL CONSIDERATIONS

Product: Dispose of product and packaging in accordance with the Green Code. (The Code of Practice for the safe use of Pesticides on Farms and Holdings)

Contaminated packaging: Do not dispose with household waste. Do not re-use empty containers. Dispose at licensed waste disposal site capable of accepting pesticides in compliance with applicable regulations.

14. TRANSPORT INFORMATION

UN No.: 3082
Class: 9
Packaging group: III

15. REGULATORY INFORMATION

Symbol(s): Xn Harmful
  N Dangerous for the environment
R-phrase(s): R38 Irritating to skin.
  R41 Risk of serious damage to eyes.
  R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrase(s): S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
  S35 This material and its container must be disposed of in a safe way.
  S39 Wear eye/face protection.
  S57 Use appropriate containment to avoid environmental contamination.

16. OTHER INFORMATION

This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.