

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product name: DIFENOCONAZOLE 25% EC
Use / description of product: Use as an agricultural/horticultural fungicide
Company name: INDOFIL INDUSTRIES LIMITED
Kalpataru Square, 4th Floor,
Kondivita Road, Off. Andheri Kurla Road, Andheri (E),
Mumbai 400 059, Maharashtra, India.
Email: customercare@indofil.com
Toll Free No.: 1800-120-003-004

2. HAZARDS IDENTIFICATION

GHS Classification

Hazard Symbol



Signal word:

Hazard statement(s):

DANGER

H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H316 Causes mild skin irritation.
H320 Causes eye irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/
spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this
product.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves/ eye protection/ face
protection.
P284 Wear respiratory protection.
P301 + P312 IF SWALLOWED: Call a POISON
CENTER or doctor/ physician if you feel unwell.
P302 + P352 IF ON SKIN: Wash with
plenty of soap and water.
P304 + P340 IF INHALED: Remove victim to fresh air
and keep at rest in a position comfortable for
breathing.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	CAS	%
Active ingredient (Difenoconazole)	119446-68-3	25
Other ingredients	-----	QS to make up 100

4. FIRST AID MEASURES

Most Important symptoms and effects, both acute and delayed

Skin contact

Promptly wash the contaminated skin using soap or water, remove the affected clothing and wash the skin with soap and water.

Eye contact

Flush with plenty of water for atleast 15 minutes. Seek medical attention if irritation begins and / or persists.

Ingestion

There may be soreness and redness of the mouth and throat

Description of first aid measures

In general

Never give fluids or induce vomiting if patient is unconscious or is having convulsions.

After Ingestion

Do not induce vomiting. Provided the patient is conscious, wash mouth with water and give plenty of water to drink. Consult a physician. The decision of whether to induce vomiting or not should be made by a physician.

After eye contact

Flush eyes thoroughly with water for several minutes. Remove contact lenses after initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.

After skin contact

Immediately wash skin with soap and plenty of water. Consult a physician if irritation develops.

After Inhalation

Remove to fresh air. Consult a physician if irritation develops

Indication of any immediate medical attention and special treatment needed

Supportive care. No specific antidote. Treatment based on judgement of physician, in response to symptoms of patient.

5. FIRE-FIGHTING MEASURES

Extinguishing media:

Water spray. Carbon dioxide. Dry chemical powder.

Exposure hazards:

May form flammable / explosive dust-air mixture. In combustion emits toxic fumes of sulphur Oxides, nitrogen oxides, carbon dioxide / carbon monoxide.

Protection of fire-fighters:

Wear self-contained breathing apparatus. Run-off from fire control may be a pollution hazard. If area is not too heavily exposed to fire, and if conditions permit, let fire burn itself out, since water may increase the contamination hazard.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Eliminate all sources of ignition. Do not create dust.

Environmental precautions:

Do not discharge into drains or rivers. Contain the spillage using bunding.

Clean-up procedures:

Transfer to a closable, labelled salvage container for disposal by an appropriate method.

Do not use equipment in clean-up procedure which may produce sparks.

7. HANDLING AND STORAGE

Handling requirements:

Ensure there is sufficient ventilation of the area. Smoking is forbidden. Use non-sparking tools.

Storage conditions:

When handling do not eat, drink or smoke.

Store in cool, well ventilated area. Keep away from sources of ignition. Keep container tightly closed. Keep in original containers, out of reach of children Never allow the product to become wet during storage. This may lead to chemical changes, which will reduce the effectiveness as a fungicide and could create flammable vapours.

Suitable packaging:

Must only be kept in original packaging.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures:

Ensure there is sufficient ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition.

Respiratory protection:

Wear approved respirator.

Hand protection:

Protective gloves

Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

Eye protection:

Safety goggles.

Skin protection:

Mixers and loaders must wear overalls , protective goggles and chemical-resistant apron.

Applicators and other handlers must wear overalls, goggles and waterproof gloves. Any clothing or other absorbent material which has been drenched or heavily contaminated must be discarded.

9. PHYSICAL AND CHEMICAL PROPERTIES

State:

Liquid

Colour:

Yellow to Brown

Odour:

Aromatic solvent

Solubility in water:

Forms emulsion in water

pH

4 - 10

Melting / Freezing Point

76°C Technical

Specific Gravity / Bulk Density

0.99 – 1.01 g/cc

Boiling Point

> 220°C

10. STABILITY AND REACTIVITY

Stability:

Stable under normal conditions.

Conditions to avoid:

Acids and moisture (in storage)

Hazardous decomp. products:

Exposure to elevated temperatures can cause product to decompose.

11. TOXICOLOGICAL INFORMATION

Hazardous ingredients:	DIFENOCONAZOLE
<u>Acute toxicity (Assessment largely or completely based on data for active substance)</u>	
Acute Oral LD ₅₀ (Rat)	> 1453 mg/kg (rat)
Acute Dermal LD ₅₀ (Rat)	> 2000 mg/kg (rat)
Acute Inhalation toxicity	> 2.065 mg/L
EYE Irritation (Rabbit)	non irritant
SKIN Irritation (Rabbit)	non irritant
Skin Sensitization (Guinea Pig)	non sensitizing

12. ECOLOGICAL INFORMATION

Ecotoxicity: (Assessment largely or completely based on data for active substance)

Aquatic toxicity :

Material is harmful to aquatic organisms.

Fish

LC₅₀ (96 h,)

Rainbow Trout 0.81 mg/L; Bluegill sunfish 1.2 mg/L

Algae EC₅₀ (48h)

Scenedesmus subspicatus 0.032 – 1.2 mg/L

Daphnia EC₅₀ (48h)

0.77 mg/L

Honey Bees LD 50

Non toxic to bees

LC₅₀ (Oral)

> 187 µg/bee

LC₅₀ (Contact)

> 1.00 µg/bee

Environmental Fate

Persistence and Degradability:

After oral administration to rats, difenoconazole is rapidly absorbed and also rapidly and almost completely eliminated with urine and faeces. Residues in tissues were not significant and there was no evidence for accumulation.

Bio-accumulation potential:

Bio-concentration potential is low.

Mobility in soil:

The product must not be allowed to go into sewers or waterways. Prevent penetration into the ground.

13. DISPOSAL CONSIDERATIONS

Disposal operations:

Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product may be disposed of at an approved waste disposal facility.

Disposal of packaging:

Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. TRANSPORT INFORMATION

U.S> Department of Transportation (DOT)

Bulk

UN no:

3082

Shipping name:

Difenoconazole 25 EC, Environmentally Hazardous Substance, solid, n.o.s.

Hazard Class:

9

Packing group:

III

Land Transport (ADR / RID)

UN no:

3082

Shipping name:

Difenoconazole 25 EC, Environmentally Hazardous Substance, solid, n.o.s.

SAFETY DATA SHEET
DIFENOCONAZOLE 25% EC
(DEBUT)

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Issued date: 22.10.2021
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Ref: IIL/DIFEN25EC

Hazard Class: 9
Packing group: III
Marine Transport (IMDG / IMO)
UN no: 3082
Shipping name: Difenoconazole 25 EC, Environmentally Hazardous Substance, solid, n.o.s.
Hazard Class: 9
Packing group: III
Marine pollutant: Yes
EmS: F-A, S-F

Air transport (IATA / ICAO)

UN no: 3082
Shipping name: Difenoconazole 25 EC, Environmentally Hazardous Substance, solid, n.o.s.
Hazard Class: 9
Packing group: III
Cargo Packing instructions:

15. REGULATORY INFORMATION

Risk Symbol : Xi



Xi - Irritant

Risk Phrases

R36 – Irritating to eyes
R37 - Irritating to respiratory system.
R38 – Irritating to skin
R43 - May cause sensitization by skin contact

Safety Phrases

S1/2 – Keep out of reach of children
S36/37/39 – Wear suitable protective clothing, gloves and eye protection.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Legal disclaimer:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.