

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

Product name:	HEXACONAZOLE 5% 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

DANGER

- H303 May be harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H316 Causes mild skin irritation.
H317 May cause an allergic skin reaction.
H320 Causes eye irritation.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs through prolonged or repeated exposure.
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 (Hexaconazole)	79983-71-4	5
Other ingredients	-----	QS to make up 100

4. FIRST AID MEASURES

Most Important symptoms and effects, both acute and delayed

Skin contact

There may be mild irritation at the site of contact

Eye contact

There may be irritation and redness. The vision may become blurred

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:
Hand protection:

Wear approved respirator.
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:

Brown

Odour:

Solvent Odour

Solubility in water:

Forms suspension in water

pH

6-8

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:	HEXACONAZOLE
<u>Acute toxicity (Assessment largely or completely based on data for active substance)</u>	
Acute Oral LD ₅₀ (Rat)	>2000 mg/kg (rats)
Acute Dermal LD ₅₀ (Rat)	no data
Acute Inhalation LD ₅₀	> 5.9 mg/l (rats)
EYE Irritation (Rabbit)	May cause eye irritation.
SKIN Irritation (Rabbit)	Non irritant
Skin Sensitization (Guinea Pig)	sensitizing to Guinea pig skin

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 3.4 mg/l (96h), Mirror carp 5.94 mg/l, Sheep head minnows 5.4 mg/l

Bluegill sunfish 15.6 mg/l

Honey Bees LD 50

0.1 mg/bee (48h)

Environmental Fate

Persistence and Degradability:

Half-life in soils is dependent on soil type and conditions and is approximately 6-15 days.

Bio-accumulation potential:

Bio-concentration potential is low.

Mobility in soil:

Potential for mobility in soil is low.

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:

2902

Shipping name:

Hexaconazole 5% EC, Environmentally Hazardous Substance, solid, n.o.s.

Hazard Class:

6.1

Packing group:

III

Land Transport (ADR / RID)

UN no:

2902

Shipping name:

Hexaconazole 5% EC, Environmentally Hazardous Substance, solid, n.o.s.

Hazard Class:

6.1

Packing group:

III

Marine Transport (IMDG / IMO)

SAFETY DATA SHEET
HEXACONAZOLE 5% EC
(SITARA)

UN no: 2902
Shipping name: Hexaconazole 5% EC, Environmentally Hazardous Substance, solid, n.o.s.
Hazard Class: 6.1
Packing group: III
Marine pollutant: Yes
EmS: F-A, S-F

Air transport (IATA / ICAO)

UN no: 2902
Shipping name: Hexaconazole 5% EC, Environmentally Hazardous Substance, solid, n.o.s.
Hazard Class: 6.1
Packing group: III
Cargo Packing instructions:

15. REGULATORY INFORMATION

Symbol : Xn : Harmful



Special Risks : R22 : Harmful if swallowed.
(R-Phrases) 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.

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.