

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

**Product name:** **HEXACONAZOLE 5% SC**  
**Use / description of product:** Use as an agricultural/horticultural fungicide  
**Company name:** INDOFIL INDUSTRIES LIMITED  
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Kondivita Road, Off. Andheri Kurla Road, Andheri (E),  
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**2. HAZARDS IDENTIFICATION**

GHS Classification

Hazard Symbol



Signal word:

Hazard statement(s):

**DANGER**

H303 May be harmful if swallowed.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H412 Harmful 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:**

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:**

White

**Odour:**

Odorless

**Solubility in water:**

Forms suspension in water

**pH**

6-8 (1% dispersion)

**Density**

1.02 – 1.1 g/cc

## 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

**Acute toxicity (Assessment largely or completely based on data for active substance)**

Acute Oral LD<sub>50</sub> (Rat)

>2000 mg/kg (rats)

Acute Dermal LD <sub>50</sub> (Rat)	no data
Acute Inhalation LD <sub>50</sub>	> 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

LC<sub>50</sub> (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% SC, 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% SC, Environmentally Hazardous Substance, solid, n.o.s.

**Hazard Class:**

6.1

**Packing group:**

III

#### Marine Transport (IMDG / IMO)

**UN no:**

2902

**Shipping name:**

Hexaconazole 5% SC, 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% SC, 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.