

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

Product name: TRICYCLAZOLE 65% + HEXACONAZOLE 10% WG (IMPRESSION)
Use / description of product: Use as an agricultural/horticultural fungicide
Company name: INDOFIL INDUSTRIES LIMITED
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2. HAZARDS IDENTIFICATION

GHS Classification
Hazard Symbol



Signal word:
Hazard statement(s):

DANGER

H302 Harmful if swallowed.
H316 Causes mild skin irritation.
H317 May cause an allergic skin reaction.
H320 Causes eye irritation.
H330 Fatal if inhaled.
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 (Tricyclazole)	41814-78-2	65
Active ingredient (Hexaconazole)	79983-71-4	10
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:

Solid

Colour:

Tan

Odour:

Odorless

Solubility in water:

Forms suspension in water

pH

6-8 (1% dispersion)

Flash Point

No data

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 and TRICYCLAZOLE

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

Acute Oral LD₅₀ (Rat)

for Hexaconazole >2000 mg/kg (rats)

for Tricyclazole 180 – 275 mg/kg (female rats)

Acute Dermal LD₅₀ (Rat)

for Hexaconazole (no data)

for Tricyclazole >2000 mg/kg (rats)

Acute Inhalation LD ₅₀	for Hexaconazole >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,)

for Hexaconazole : Rainbow Trout 3.4 mg/l (96h), Mirror carp
5.94 mg/l, Sheep head minnows 5.4 mg/l

for Tricyclazole : Rainbow Trout 10.3 mg/l (96h),

for Hexaconazole : 0.1 mg/bee (48h)

Honey Bees LD 50

Environmental Fate

Persistence and Degradability:

Half-life in soils is dependent on soil type and conditions and is approximately 6-20 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:

2588

Shipping name:

Environmentally Hazardous Substance, solid, n.o.s.
(Tricyclazole 65% + Hexaconazole 10% WG)

Hazard Class:

6.1

Packing group:

III

Land Transport (ADR / RID)

UN no:

2588

Shipping name:

Environmentally Hazardous Substance, solid, n.o.s.
(Tricyclazole 65% + Hexaconazole 10% WG)

Hazard Class:

6.1

Packing group:

III

Marine Transport (IMDG / IMO)

UN no:

2588

Shipping name:

Environmentally Hazardous Substance, solid, n.o.s.
(Tricyclazole 65% + Hexaconazole 10% WG)

Hazard Class:

6.1

Packing group:

III

Marine pollutant: Yes
EmS: F-A, S-F

Air transport (IATA / ICAO)

UN no: 2588
Shipping name: Environmentally Hazardous Substance, solid, n.o.s.
(Tricyclazole 65% + Hexaconazole 10% WG)
Hazard Class: 6.1
Packing group: III
Cargo Packing instructions:

15. REGULATORY INFORMATION

U.S. Regulation :

SARA HAZARD CATEGORY :

This product has been reviewed according to the EPA "Hazard Categories" promulgated under section 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered under applicable definitions to meet the following categories :

- An immediate health hazard
- A delayed health hazard

OSHA HAZARD COMMUNICATION STANDARD :

This Product is a "Hazardous Chemical" as defined by the OSHA Hazard Communicated Standard, 29 CFR 1910.1200.

Hazardous Products Act Information : CPR Compliance

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR).

Australian Inventory of Chemical Substances (AICS)

Tricyclazole 65% + Hexaconazole 10% WG is listed in the Australian Inventory of Chemical Substances (AICS).

This product is classified as a Hazardous Substance under Criteria of Safe Work Australia . Xn: Harmful.

This product is not classified as a Dangerous Good according to the ADG Code.

This product is classified as a Dangerous Good according to the IMDG and IATA.

European Inventory of Existing Commercial Chemical Substances (EINECS)

The components of this product are on the EINECS inventory or are exempt from inventory requirements.

EU Directive 67/548/EEC for classification, packaging and labeling of dangerous substances

Tricyclazole 65% + Hexaconazole 10% WG is classified as a Harmful and Dangerous for the environment under the Directive 67/548/EEC

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.