

SAFETY DATA SHEET
ZINEB 68 % + HEXACONAZOLE 4% WP
(AVTAR)

Page 1 of 5
Issued date: 22.10.2021
Revised date: 04.08.2023
Revision No.: 01
Ref: IIL/ZNBHEX72WP

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

Product name:	ZINEB 68% + HEXACONAZOLE 4% WP
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



Hazard Statement

WARNING

H302	HARMFUL IF SWALLOWED
H317	MAY CAUSE AN ALLERGIC SKIN REACTION
H335	MAY CAUSE RESPIRATORY IRRITATION.
H373	MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE (BLOOD, THYMUS)
H400	VERY TOXIC TO AQUATIC LIFE
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.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	CAS	%
Active ingredient (Zineb)	12122-67-7	68
Active ingredient (Hexaconazole)	79983-71-4	4
Other ingredients	-----	QS to make up 100

4. FIRST AID MEASURES**Most Important symptoms and effects, both acute and delayed****Skin contact****Eye contact****Ingestion**

There may be mild irritation at the site of contact

There may be irritation and redness.

The vision may become blurred

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:

Grey to off white

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

Acute Oral LD ₅₀ (Rat)	for Hexaconazole >2000 mg/kg (rats) for Zineb > 5 mg/kg (rats)
Acute Dermal LD ₅₀ (Rat)	for Hexaconazole (no data) for Zineb (no data)
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

LC ₅₀ (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 Zineb : No data
Honey Bees LD 50	for Hexaconazole : 0.1 mg/bee (48h)

Environmental Fate**Persistence and Degradability:**

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

3077

Shipping name:Environmentally Hazardous Substance, solid, n.o.s.
(Zineb 68% + Hexaconazole 4% WP)**Hazard Class:**

9

Packing group:

III

SAFETY DATA SHEET
ZINEB 68 % + HEXACONAZOLE 4% WP
(AVTAR)

Page 5 of 5
Issued date: 22.10.2021
Revised date: 04.08.2023
Revision No.: 01
Ref: IIL/ZNBHEX72WP

Land Transport (ADR / RID)

UN no: 3077
Shipping name: Environmentally Hazardous Substance, solid, n.o.s.
(Zineb 68% + Hexaconazole 4% WP)
Hazard Class: 9
Packing group: III

Marine Transport (IMDG / IMO)

UN no: 3077
Shipping name: Environmentally Hazardous Substance, solid, n.o.s.
(Zineb 68% + Hexaconazole 4% WP)
Hazard Class: 9
Packing group: III
Marine pollutant: Yes
EmS: F-A, S-F

Air transport (IATA / ICAO)

UN no: 3077
Shipping name: Environmentally Hazardous Substance, solid, n.o.s.
(Zineb 68% + Hexaconazole 4% WP)
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 sensitisation by skin contact

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.