

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

**Product name:** CAPTAN 50% 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),  
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**2. HAZARDS IDENTIFICATION**

**GHS Classification**

|   |                     |
|---|---------------------|
| Acute toxicity – inhalation (Dusts/Mists) | Category 4 – (H332) |
| Serious eye damage/eye irritation         | Category 2 – (H319) |
| Skin sensitization                        | Category 1 – (H317) |
| Carcenogenicity                           | Category 2 – (H351) |
| Acute aquatic toxicity                    | Category 1 – (H400) |

**Hazard Symbol**



**Signal Word**

**DANGER**

**Hazard Statement(s)**

H317 - May cause an allergic skin reaction  
 H319 - Causes serious eye irritation  
 H332 - Harmful if inhaled  
 H351 - Suspected of causing cancer  
 H400 - Very toxic to aquatic life

**Precautionary Statement(s)**

P102 - Keep out of reach of children  
 P201 - Obtain special instructions before use  
 P261 - Avoid breathing dust/fume/gas/mist/vapours/spray  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection  
 P305 + P351 + P338 – If In Eyes : Rinse cautiously with water for several minutes.  
 Remove contact lenses, if present and easy to do.  
 Continue rinsing .  
 P501 - Dispose of contents/container to an approved waste disposal plant.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

| Chemical name              | CAS      | %                 |
|----------------------------|----------|-------------------|
| Active ingredient (Captan) | 133-06-2 | 50                |
| 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

|                    |  |
|--------------------|--|
| <b>Eye contact</b> | There may be irritation and redness. The vision may become blurred |
| <b>Ingestion</b>   | There may be soreness and redness of the mouth and throat          |

**Description of first aid measures**

|                           |  |
|---------------------------|--|
| <b>In general</b>         | Have the product container, label or Safety Data Sheet with you when calling the emergency number, a poison control center or physician, or going for treatment..                                |
| <b>After Ingestion</b>    | Take the victim into fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest<br>Call a physician or poison control center immediately. |
| <b>After eye contact</b>  | Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.              |
| <b>After skin contact</b> | Immediately wash skin with soap and plenty of water. Consult a physician if irritation develops.   |
| <b>After Inhalation</b>   | 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**

|                                     |  |
|-------------------------------------|--|
| <b>Extinguishing media:</b>         | Water spray, dry powder, foam, carbon dioxide  |
| <b>Exposure hazards:</b>            | Exposure to decomposition products may be a hazard to health.  |
| <b>Protection of fire-fighters:</b> | 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**

|                                   |  |
|-----------------------------------|--|
| <b>Personal precautions:</b>      | Eliminate all sources of ignition. Do not create dust.   |
| <b>Environmental precautions:</b> | Do not discharge into drains or rivers. Contain the spillage using bunding.  |
| <b>Clean-up procedures:</b>       | For small amounts: Pick up with suitable absorbent material<br>For large amounts: Dike spillage. Pump off product. |

**7. HANDLING AND STORAGE**

|                               |   |
|-------------------------------|---|
| <b>Handling requirements:</b> | Ensure there is sufficient ventilation of the area. Smoking is forbidden. Use non-sparking tools.<br>When handling do not eat, drink or smoke.  |
| <b>Storage conditions:</b>    | 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. |
| <b>Suitable packaging:</b>    | Must only be kept in original packaging.  |

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering measures:**

Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated. The extent of these protection measures depends on the actual risks in use. Maintain air concentrations below occupational exposure standards. Where necessary, seek additional occupational hygiene advice.

**Respiratory protection:**

Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

**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

|                             |                            |
|-----------------------------|----------------------------|
| <b>State:</b>               | Solid                      |
| <b>Colour:</b>              | Off White                  |
| <b>Odour:</b>               | Faint characteristic odour |
| <b>Solubility in water:</b> | Forms suspension in water  |
| <b>pH</b>                   | 5 – 8.5                    |
| <b>Flash point °C:</b>      | Not Applicable             |
| <b>Bulk Density :</b>       | 0.62 – 0.70                |

## 10. STABILITY AND REACTIVITY

|                                    |   |
|------------------------------------|---|
| <b>Stability:</b>                  | Stable under normal conditions.   |
| <b>Conditions to avoid:</b>        | Acids and moisture (in storage)   |
| <b>Hazardous decomp. products:</b> | No hazardous decomposition products if stored and handled as prescribed/indicated.. |

## 11. TOXICOLOGICAL INFORMATION

|  |               |
|--|---------------|
| <b>Hazardous ingredients:</b>  | CAPTAN        |
| <b><u>Acute toxicity (Assessment largely or completely based on data for active substance)</u></b> |               |
| Acute Oral LD <sub>50</sub> (Rat)  | > 5.000 mg/kg |
| Acute Dermal LD <sub>50</sub>  | > 2.000 mg/kg |
| Acute Inhalation LD <sub>50</sub>  | > 2.6 mg/l    |

|                                 |   |
|---------------------------------|---|
| EYE Irritation (Rabbit)         | Irritating to eyes                                    |
| SKIN Irritation (Rabbit)        | Non irritant  |
| Skin Sensitization (Guinea Pig) | There is no evidence of a skin-sensitizing potential. |

## 12. ECOLOGICAL INFORMATION

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

|  |  |
|--|--|
| <b><u>Aquatic toxicity :</u></b>       | Material is very toxic to aquatic organisms. |
| <b>Fish</b>                            | No data                                      |
| <b>Algae EC<sub>50</sub> (96 h)</b>    | No data                                      |
| <b>Daphnia EC<sub>50</sub> (48 hr)</b> | No data                                      |
| <b>Birds LD<sub>50</sub></b>           | > 2000 mg/kg Mallard Duck                    |
| <b>Honey Bees LD<sub>50</sub></b>      | > 100 µg/l                                   |
| <b>Environmental Fate</b>              |  |
| <b>Persistence and Degradability:</b>  | Not readily degradable.                      |
| <b>Bio-accumulation potential:</b>     | 2.57   |
| <b>Mobility in soil:</b>               | Potential for mobility in soil is low.       |

## 13. DISPOSAL CONSIDERATIONS

|                               |  |
|-------------------------------|--|
| <b>Disposal operations:</b>   | 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. |
| <b>Disposal of packaging:</b> | 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)

|                       |   |
|-----------------------|---|
| <b>Bulk</b>           |   |
| <b>UN no:</b>         | 3077  |
| <b>Shipping name:</b> | Environmentally Hazardous Substance, solid, n.o.s. (Captan) |
| <b>Hazard Class:</b>  | 9   |
| <b>Packing group:</b> | III   |

Land Transport (ADR / RID)

|                       |  |
|-----------------------|--|
| <b>UN no:</b>         | 3077   |
| <b>Shipping name:</b> | Environmentally Hazardous Substance, solid, n.o.s.(Captan) |
| <b>Hazard Class:</b>  | 9  |
| <b>Packing group:</b> | III  |

Marine Transport (IMDG / IMO)

|                       |   |
|-----------------------|---|
| <b>UN no:</b>         | 3077  |
| <b>Shipping name:</b> | Environmentally Hazardous Substance, solid, n.o.s. (Captan) |
| <b>Hazard Class:</b>  | 9   |
| <b>Packing group:</b> | 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. (Captan)  
**Hazard Class:** 9  
**Packing group:** III  
**Cargo Packing instructions:**

**15. REGULATORY INFORMATION**

Symbol : Xn : Harmful



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