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

Product name: Use / description of product: Company name:

MANCOZEB 75% WG

Use as an agricultural/horticultural fungicide INDOFIL INDUSTRIES LIMITED Kalpataru Square, 4th Floor, Kondivita Road, Off. Andheri Kurla Road, Andheri (E), Mumbai 400 059, Maharashtra, India. Email: <u>customercare@indofil.com</u> Toll Free No.: 1800-120-003-004

2. HAZARDS IDENTIFICATION

GHS Classification

Hazard Symbol

Signal word: Hazard statement(s):



WARNING

H303 May be harmful if swallowed.

- H317 May cause an allergic skin reaction.
- H335 May cause respiratory irritation.
- H361 Suspected of damaging fertility or the unborn child.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- 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 (Mancozeb)	8018-01-7	75
Other ingredients		25

4. FIRST AID MEASURES

Most Important symptoms and effects, both acute and delayed

Skin contact Eye contact There may be mild irritation at the site of contact There may be irritation and redness. The vision may become blurred



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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

Do not discharge into drains or rivers. Contain the spillage using
bunding.
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.

Handling requirements:

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Storage conditions:

Ensure there is sufficient ventilation of the area. Smoking is forbidden. Use non-sparking tools.

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



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8. EXPOSURE CONTROLS / PERSONAL PROTECTION	
Suitable packaging:	Must only be kept in original packaging.
	create flammable vapours.
	which will reduce the effectiveness as a fungicide and could
	become wet during storage. This may lead to chemical changes,

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 PROPI	ERTIES
State:	Solid / Granules
Colour:	Yellow to brown
Odour:	Characteristic
Solubility in water:	Forms suspension in water
pH	6 – 8 (1% dispersion)
Flash point °C:	Not Applicable

10. STABILITY AND REACTIVITY

Stability:
Conditions to avoid:
Hazardous decomp. products:

Stable under normal conditions.

Acids and moisture (in storage)

Elevated temperature or free water promotes decomposition, which may cause spontaneous combustion. In combustion emits toxic fumes. In combustion emits toxic fumes of sulphur oxides, carbon dioxide / carbon monoxide, nitrogen oxides.

11. TOXICOLOGICAL INFORMATION

Hazardous ingredients:	MANCOZEB	
Acute toxicity (Assessment largely or completely based on data for active substance		
Acute Oral LD ₅₀ (Rat)	>2000 mg/kg	
Acute Dermal LD ₅₀ (Rat)	>2000 mg/kg	
Acute Inhalation LD ₅₀	> 5.14 mg/ls	
EYE Irritation (Rabbit)	May cause eye irritation.	
SKIN Irritation (Rabbit)	Non irritant	
Skin Sensitization (Guinea Pig)	sensitizing to Guinea pig skin	



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12. ECOLOGICAL INFORMATION

Ecotoxicity: (Assessment largely or completely based on data for active substance)		
<u>Aquatic toxicity :</u>	Material is very toxic to aquatic organisms.	
Fish		
LC ₅₀ (96 h,)	Rainbow Trout < 1.0,	
	Bluegill sunfish < 1.0 mg/l	
Algae EC ₅₀ (120 hr)	Selenastrum capricornutum < 1.0 mg /L	
Daphnia EC ₅₀ (48 hr)	EC ₅₀ < 1.0 mg/L	
Bird	Material is practically non-toxic to birds.	
Acute Oral, LD ₅₀ (10 d)	Mallard ducks > 5500 mg/kg	
Acute dietary, LC ₅₀ (8 d)	Bobwhite quail and mallard ducks > 5200 mg/kg diet.	
Honey Bee	Material is non-toxic to bees.	
LD ₅₀ (oral)	> 100 µg/bee;	
LD ₅₀ (contact)	$> 100 \ \mu g/bee.$	
Earthworm		
LC ₅₀ (14 d)	<i>Eisenia foetida</i> > 1000 mg/kg soil.	
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.	
	Partition coefficient, n-octanol/water (log Pow): 1.38	
Mobility in soil:	Potential for mobility in soil is low.	
	Partition coefficient, soil organic carbon/water (Koc): 1000	
	Estimated	

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: Shipping name: Hazard Class: Packing group:

3077Environmentally Hazardous Substance, solid, n.o.s. (Mancozeb)9III

Land Transport (ADR / RID)



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UN no:	3077
Shipping name:	Environmentally Hazardous Substance, solid, n.o.s. (Mancozeb)
Hazard Class:	9
Packing group:	III
Marine Transport (IMDG / IMO)	
UN no:	3077
Shipping name:	Environmentally Hazardous Substance, solid, n.o.s. (Mancozeb)
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. (Mancozeb)
Hazard Class:	9
Packing group:	III
Cargo Packing instructions:	956

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.