

SAFETY DATA SHEET

MANCOZEB 64% + METALAXYL 8% WP (MATCO)

Page 1 of 5
Issued date: 22.10.2021
Revised date: 04.08.2023
Revision No.: 01
Ref: IIL/MAT72WP

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

Product name:	MANCOZEB 64% + METALAXYL 8% WP (MATCO 720 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



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.
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	64%
Active ingredient (Metalaxyl)	57837-19-1	8%
Other ingredients	-----	QS

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.
There may be soreness and redness of the mouth and throat

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Page 2 of 5
Issued date: 22.10.2021
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Description of first aid measures

In general,

Never give fluids or induce vomiting if patient is unconscious or is having convulsions. Seek medical advice immediately (show the label where possible)

After Ingestion

If swallowed dilute by giving 2 glasses of water to drink and call a doctor. Never give any by mouth to an unconscious person

After eye contact

Flush eyes with plenty of water for at least 15 minutes and see doctor

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.

When handling do not eat, drink or smoke.

Storage conditions:

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.

SAFETY DATA SHEET

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Page 3 of 5
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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:	Yellow
Odour:	Misty odour
Solubility in water:	Forms dispersion in water
pH	5 to 8 (1% dispersion)
Flash point °C:	Not applicable

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to avoid:	Excessive temperatures.
Hazardous decomp. products:	Decomposition on heating above 22°C. Decomposed on heating in alkaline media with the formation of copper oxides. Decomposition will evolve toxic and irritant vapors.

11. TOXICOLOGICAL INFORMATION

Hazardous ingredients:	MANCOZEB and METALAXYL
<u>Acute toxicity (Assessment largely or completely based on data for active substance)</u>	
Acute Oral LD ₅₀ (Rat):	Mancozeb->5000 mg/kg; Metalaxyl – 633 mg/kg
Acute Dermal LD ₅₀ (Rat)	>5000 mg/kg – Mancozeb; >3100 mg/kg; Metalaxyl
Acute Inhalation LD ₅₀	> 5.14-Mancozeb; > 3.6 mg/l (4 h); Metalaxyl
EYE Irritation (Rabbit)	Irritant – Mancozeb; Slight irritant (rabbits)-Metalaxyl
SKIN Irritation (Rabbit)	Not an irritant-Mancozeb; Not an irritant-Metalaxyl
Skin Sensitization (Guinea Pig)	Sensitize to Guinea pig skin-Mancozeb; Not a sensitizer-Metalaxyl

12. ECOLOGICAL INFORMATION

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

<u>Aquatic toxicity :</u>	Contamination of both terrestrial and marine environments should be avoided
LC ₅₀ (96 h,)	Rainbow trout 1 mg/L- Mancozeb; >100 mg/L-Metalaxyl;
Algae EC ₅₀ (120 hr)	<i>Selenastrum capricornutum</i> 0.044 mg/L-Mancozeb <i>Scenedesmus subspicatus</i> 33 mg/L-Metalaxyl

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Page 4 of 5
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Daphnia EC₅₀ (48 hr)
Bird .

3.8 mg/L-Mancozeb; >28 mg/l-Metalaxyl;

Honey Bee
LD₅₀ (contact)
Earthworm
LC₅₀ (14 d)

Acute Oral, LD₅₀ (10 d) Bobwhite quail and mallard duck >
10,000 mg/kg-Metalaxyl
Mallard duck >5500 mg/kg – Mancozeb

>400 □g/bee-Mancozeb; >200 □g/bee (48 h) - Metalaxyl

Eisenia foetida >1000 mg/kg soil – Metalaxyl

Eisenia foetida >1000 mg/kg soil – Mancozeb

Environmental Fate
Persistence and Degradability:

Metalaxyl: Phytolytically stable in water and on soil surfaces.
Mancozeb: It is rapidly degraded in the environment by hydrolysis, oxidation, photolysis and metabolism. It strongly adsorbed to soil, and half life in soil is 3 to 11 days (clay and loam soil)

Bio-accumulation potential:
Mobility in soil:

Bio-concentration potential is low for Cymoxanil and Mancozeb
Metalaxyl- No data

Mancozeb has low mobility and is not likely to leach.

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:

3077
Environmentally Hazardous Substance, solid, n.o.s.,
(Mancozeb 64% + Metalaxyl 8% WP)
9

Hazard Class:

Packing group: **III Land Transport (ADR / RID)**

III

UN no:
Shipping name:

3077
Environmentally Hazardous Substance, solid, n.o.s.,
(Mancozeb 64% + Metalaxyl 8% WP)
9

Hazard Class:

Packing group:

III

Marine Transport (IMDG / IMO)

UN no:
Shipping name:

3077
Environmentally Hazardous Substance, solid, n.o.s.,
(Mancozeb 64% + Metalaxyl 8% WP)

Hazard Class:

Packing group:

9

III

Marine pollutant:

Yes

EmS:

F-A, S-F

Air transport (IATA / ICAO)

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Hazard Class:	9
Packing group:	III
Cargo Packing instructions:	

15. REGULATORY INFORMATION

Risk Symbol : Xi



Risk Phrases

R36 – Irritating to eyes
R37 - Irritating to respiratory system.
R38 – Irritating to skin
R43 - May cause sensitisation by skin contact

Safety phrases

S 2 Keep out of the reach of children
S 8 Keep container dry.
S 24/25 Avoid contact with skin and eyes.
S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S 46 If swallowed, seek medical advice immediately and show this container and label

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.