

Page 1 of 5

Issued date: 22.10.2021 Revised date: 04.08.2023

Revision No.: 01

Ref: IIL/MATCO68WP

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

**Product name:** 

Use / description of product:

Company name:

MANCOZEB 64% + METALAXYL-M 4% WP (MATCO GOLD 68% WP) 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

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spary

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-M)	70630-17-0	4%
Other ingredients		QS



Page 2 of 5

Issued date: 22.10.2021 Revised date: 04.08.2023

Revision No.: 01

Ref: IIL/MATCO68WP

#### 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.

**Ingestion** There may be soreness and redness of the mouth and throat

Description of first aid measures

After eye contact

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 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



Page 3 of 5

Issued date: 22.10.2021 Revised date: 04.08.2023

Revision No.: 01

Ref: IIL/MATCO68WP

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 an 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:SolidColour:YellowOdour:Misty odour

Solubility in water: Forms dispersion in water pH 5 to 8 (1% dispersion)

Flash point °C: Not applicable

1

#### 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-M

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

Acute Oral LD50 (Rat):

Acute Dermal LD50 (Rat)

Acute Dermal LD50 (Rat)

Acute Inhalation LD50

EYE Irritation (Rabbit)

SKIN Irritation (Rabbit)

Skin Sensitization (Guinea Pig)

Mancozeb->5000 mg/kg; Metalaxyl-M - 375 mg/kg

>5000 mg/kg - Mancozeb; >2000 mg/kg: Metalaxyl-M

>5.14-Mancozeb; > 2.29 mg/l (4 h): Metalaxyl-M

Irritant - Mancozeb; Slight irritant (rabbits)-Metalaxyl-M

Not an irritant-Mancozeb; Not an irritant-Metalaxyl-M

Sensitize to Guinea pig skin-Mancozeb, Not a sensitizer-

Metalaxyl-M



Page 4 of 5

Issued date: 22.10.2021 Revised date: 04.08.2023

Revision No.: 01

Ref: IIL/MATCO68WP

#### 12. ECOLOGICAL INFORMATION

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

Aquatic toxicity:

Fish Mancozeb: LC50 (Oncorhynchus mykiss (rainbow trout)): 0,088

mg/l (90h)

**Metalaxyl-M:** LC50 (Oncorhynchus mykiss (rainbow trout)): >

100 mg/l (120h)

Algae EC<sub>50</sub> (120 hr) Mancozeb: ErC<sub>50</sub> (Raphidocelis subcapitata (freshwater green

alga)): 0,032 mg/l

Metalaxyl-M: ErC50 (Raphidocelis subcapitata (freshwater

green alga) 271 mg/l (96h)

Daphnia EC50 (48 hr) Mancozeb: EC50 (Daphnia magna (Water flea): 0,073 mg/l

(48h)

Metalaxyl-M: EC50 (Daphnia magna (Water flea)): > 100 mg/l

(48h)

**Environmental Fate:** 

Persistence and Degradability: Mancozeb & Metalaxyl-M: Not readily biodegradable

**Bio-accumulation potential:** Mancozeb Bio-concentration < 100

**Metalaxyl-M:** 1.71 (25°C)

**Mobility in soil:** Mancozeb: log Pow 1.38

Metalaxyl-M: log Pow 1.71

# 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: 307

**Shipping name:** Mancozeb 64% + Metalaxyl-M 4% WP, Environmentally

Hazardous Substance, solid, n.o.s.

**Hazard Class:** 

Packing group: III Land Transport (ADR / RID)

UN no: 3077

**Shipping name:** Mancozeb 64% + Metalaxyl-M 4% WP, Environmentally

Ш

Hazardous Substance, solid, n.o.s.

Hazard Class:
Packing group:

Marine Transport (IMDG / IMO)

UN no:

Shipping name: Mancozeb 64% + Metalaxyl-M 4% WP, Environmentally

Hazardous Substance, solid, n.o.s.

Hazard Class:



Page 5 of 5

Issued date: 22.10.2021 Revised date: 04.08.2023

Revision No.: 01

Ref: IIL/MATCO68WP

Packing group: III
Marine pollutant: Yes
EmS: F-A, S-F

Air transport (IATA / ICAO)

UN no: 3077

Shipping name: Mancozeb 64% + Metalaxyl-M 4% WP, Environmentally

Hazardous Substance, solid, n.o.s.

Hazard Class: 9
Packing group: III

Cargo Packing instructions:

#### 15. REGULATORY INFORMATION

#### Safety, health and environmental regulations/legislation specific for the substance or mixture

This Safety Data Sheet contains no country specific regulatory information. It may not meet the regulatory requirements of a specific country.

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

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

#### 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.