

# SAFETY DATA SHEET

# Manzate Evolution Fungicide®

Date of Issue: 2nd July 2020

#### 1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

Chemical name of active ingredient(s): Mancozeb Recommended use: Fungicide

Supplier: UPL New Zealand Limited

PO Box 51584, Pakuranga

**Auckland** 

Phone 0800 100 325

Emergency telephone number: 0800 Poison (0800 764 766) 24 Hours

# 2. HAZARDS IDENTIFICATION

Hazard 6.3B, 6.4A, 6.5B, 6.9B, 9.1A

Classification:



#### Signal Word: WARNING

Required identification Details:

May cause skin and eye irritation.

May cause sensitisation from prolonged skin contact.

May cause lung and liver damage from repeated oral exposure at high doses.

Very toxic to the aquatic environment.

# **Precautionary Statements**

## Prevention

P201 Obtain special instruction before use.

P280 Do not handle until all safety precautions have been read and understood

P273 Avoid release to the environment.

#### Response

P308+P313 IF exposed or concerned: Get medical advice/attention P391 Collect spillage.

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Page 1 of 5
Product: Manzate Evolution Fungicide

#### Storage

P405 Store locked up

#### Prevention

P501 Dispose of contents/container to an approved waste disposal plant.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation Information on hazardous ingredients

Common name CAS No %

Mancozeb 8018-01-7 75

#### 4. FIRST-AID MEASURES

Description of necessary first aid measures

**Effects and symptoms** 

**Inhalation:** IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Give artificial respiration if victim is not breathing. If signs/symptoms continue, get medical attention.

**Ingestion:** Rinse mouth. Never give anything by mouth to an unconscious

person. Do not induce vomiting unless told by physician. If vomiting

occurs ensure patient can breathe. Get medical attention.

**Skin contact:** Wash off immediately with plenty of water for at least 15 minutes. Get

medical attention immediately if symptoms occur.

**Eye contact:** Hold eye open and rinse slowly and gently with water for 15 - 20

minutes. Remove contact lenses, if present and easy to do. Continue

rinsing. Call a poison centre or doctor for treatment advice.

**Notes to a physician:**Treat symptomatically and supportively.

## 5. FIRE-FIGHTING MEASURES

(de)composition products:

**HAZCHEM Code:** 

Extinguishing media: Water spray. Foam. Carbon dioxide. Dry chemical.

Hazardous thermal Thermal decomposition can lead to release of irritating gases and

vapours. Keep product and empty container away from heat and sources of ignition. Hazardous decomposition products formed under fire conditions: Carbon oxides, Nitrogen oxides (NOx), Oxides of sulfur, Carbon disulphide, Hydrogen sulphide, Ethylenethiourea

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**Protection of fire-fighters:** Wear SCBA and protective suit. Use standard firefighting procedures

and consider the hazards of involved material.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid contact with skin and eyes. Avoid dust formation. Remove all

sources of ignition. Provide adequate ventilation. Wash thoroughly after handling. Wear protective gloves/protective clothing and

eye/face protection.

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Page 2 of 5

Product: Manzate Evolution Fungicide

**Environmental precautions:** Contain spill, do not allow material to enter sewers or bodies of

water. Keep unprotected persons and animals out of the area. Avoid dust formation. Take up mechanically and collect in suitable

container for disposal. Remove all ignition sources.

# 7. HANDLING AND STORAGE

Methods for cleaning up:

**Handling:** Avoid dust formation. Avoid contact with skin and eyes. Provide adequate

ventilation. Do not eat, drink or smoke when using this product. Wash

thoroughly after handling. Keep out of reach of children.

Storage: Store locked up. Keep in a dry, cool and well-ventilated place. Keep out of

the reach of children

Incompatible materials: Alkaline, Strong acids, Strong oxidizing agents, Quaternary ammonium

salts, Sequestering agents

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Workplace Exposure Guidelines** 

**Exposure Standards:** Not established.

**Engineering measures** 

**Exposure control measures:** Ensure adequate ventilation, especially in confined areas. If

applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended

exposure limits. If exposure limits have not been established,

maintain airborne levels to an acceptable level.

**Personal Protective Equipment** 

**Detail specifications for equipment:** 

**Respiratory system:** Wear respiratory protection if ventilation is inadequate.

Skin and body:Wear suitable long-sleeved clothing.Hands:Wear suitable protective gloves.Eyes:Wear face shield or goggles.

General hygiene: After use and before eating, drinking or smoking, wash hands, arms

and face thoroughly with soap and water.

After each day's use, wash contaminated clothing and safety

equipment.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Powder

Colour:Yellowish-greenOdour:OdourlesspH:6.5 - 7.5

**Vapour Pressure:** <5.6 x 10-7 hPa at 25°C

Boiling Point:

Freezing/melting point:

Solubility:

Specific gravity or density:

Not available
Not available
Negligible
0.65 kg/L

Information for flammable material

including:

Not flammable.

Flashpoint: Not applicable Octanol/water partition coefficient: Not available

## 10. STABILITY AND REACTIVITY

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Page 3 of 5

Product: Manzate Evolution Fungicide

Stability: This product is unlikely to react or decompose under normal storage

conditions.

Conditions to avoid: Do not store near strong acids, Keep away from children. Keep away

from heat and sources of ignition. Avoid dust formation.

Materials to avoid:

Alkaline, Strong acids, Strong oxidizing agents, Quaternary

ammonium salts, Sequestering agents.

Hazardous Decomposition Carbon oxides, Nitrogen oxides (NOx), Oxides of sulfur, Carbon

**Products:** disulphide, Hydrogen sulphide, Ethylenethiourea

Hazardous polymerization:

This product will not undergo polymerisation reactions.

#### 11. TOXICOLOGICAL INFORMATION

Acute toxicity – Oral: LD<sub>50</sub> >2,000 mg/kg Acute toxicity - Dermal: LD<sub>50</sub> >2,000 mg/kg

**Acute toxicity – Inhalation: LC**<sub>50</sub> 3.13 mg/L (maximum breathing zone concentration – no mortality)

Skin irritation:No skin irritationEye irritation:No eye irritation

Sensitization: Repeated or prolonged skin contact may cause allergic reactions

with susceptible persons.

**Chronic toxicity** Suspected of damaging the unborn child.

Other information:

#### 12. ECOLOGICAL INFORMATION

No data available for this product. Values are for a similar product.

Aquatic LC<sub>50</sub>: 8.9 mg/L (96hr, Poecilia reticulate)

LC<sub>50</sub>: 0.18 mg/L (48hr, Daphnia magna) EC<sub>50</sub>: 7.76 ug/L (72hr, Chlorella vulgaris)

**Bioaccumulation** Does not bioaccumulate (Log Pow 1.38)

**Degradability** No data

Soil No evidence of soil toxicity

**Terrestrial vertebrate**No evidence of toxicity towards terrestrial vertebrates **Terrestrial invertebrate**No evidence of toxicity towards terrestrial invertebrates

# 13. DISPOSAL CONSIDERATIONS

**Methods of disposal:** Avoid contamination of any waterway with chemical or empty container.

**Product:** Ideally, the product should be used for its intended purpose. If there is a need to

dispose of the product, follow the recommendations in NZS 8409.

**Empty Container:** Triple rinse container and bury in a suitable landfill.

# 14. TRANSPORT INFORMATION - International transport regulations

UN number: 3077

Class or Division: 9

Packing Group: III
Marine Pollutant: Yes

**Proper shipping name:** Environmentally hazardous substance, solid, N.O.S (Mancozeb)

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Page 4 of 5

Product: Manzate Evolution Fungicide

# INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA):

# 15. REGULATORY INFORMATION

ACVM Registered Number: P007514
HSNO Approval Code: HSR000808

## **16. OTHER INFORMATION**

Additional information: Original Issue Date: 22 November 2011

Revision Date: 2<sup>nd</sup> July 2020

Replaces: ES520

#### Disclaimer EXCLUSION OF LIABILITY: PLEASE READ

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