

SAFETY DATA SHEET

PROMANZ[®] Fungicide

Date of Issue: 11th July 2018

1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

Chemical name of active ingredient(s):	mancozeb
Recommended use:	Fungicide
Supplier:	Agrisource 2000 Limited 45 Kitchener Road Pukekohe Phone: 09 237 0422
Emergency telephone number:	0800 Poison (0800 764 766) 24 Hours

2. HAZARDS IDENTIFICATION

Hazard Classifications:	6.3B, 6.4A, 6.5B, 6.9B, 9.1A
Required identification Details:	WARNING – Keep out of Reach of Children 6.3B: HARMFUL – may cause mild skin irritation. 6.4A: HARMFUL – may cause eye irritation. 6.5B: HARMFUL – may cause sensitisation from prolonged skin contact. 6.9B: WARNING - may cause organ damage from repeated oral exposure at high doses. 9.1A: ECOTOXIC – Very Toxic to aquatic organisms with long lasting effects.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation Information on hazardous ingredients

Common name	CAS No	%
mancozeb	8018-01-7	75%
Non hazardous materials		balance

4. FIRST-AID MEASURES

Description of necessary first aid measures: In case of poisoning by any exposure route contact the National Poisons and Hazardous Chemicals Information Centre, PO Box 913, Dunedin. **Phone 0800 764 766, (0800 POISON).**

Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
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Ingestion: Rinse the mouth, Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to

an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Skin contact: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Eye contact: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Get medical attention.

5. FIRE-FIGHTING MEASURES

Type of Hazard: This product is non-flammable, non-explosive and is non-combustible.

Extinguishing media : Dry chemical extinguisher, foam, carbon dioxide or water spray.

HAZCHEM Code: 2X

Fire Hazard Properties: In the event of fire, the emission of nitrogen & sulphur along with carbon disulphide or ethylene diamine and oxides or manganese or zinc.

Protection of fire-fighters: Wear protective clothing and self contained breathing apparatus. Do not breathe smoke or gases.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid contact with skin and eyes. Do not inhale spray. Wear long sleeved shirt, long pants, waterproof gloves and safety goggles or face shield. Do not eat, drink or smoke when using. Wash hands and face before meals and after work.

Environmental precautions: Do NOT allow spilled product or wash solution to enter sewers, drains, dams, creeks or any other waterways.

Methods for cleaning up: In the case of spillage, contain spilled material. Keep out animals and unprotected persons. Keep material out of streams and sewers. Vacuum or shovel waste into a drum. To decontaminate spill area, tools and equipment, wash with water. Dispose of contained wastes in accordance with the requirements of Local Authorities.

7. HANDLING AND STORAGE

Handling:	When mixing or applying, avoid breathing dust and contact with skin and eyes. Wear protective clothing, gloves and goggles. Do not eat or drink while using. Wash hands and face before meals and after work. Wash protective clothing after work.
Storage:	Store in original container tightly closed and in a locked, dry, cool, well ventilated area, away from feed, seeds and foodstuffs. Keep out of reach of children. Store in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS8409).
Packaging materials:	Multi-Wall bags.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<u>Exposure standards:</u>	No Exposure Limits have been set.
<u>Engineering measures</u> Exposure control measures:	Ensure ventilation is adequate, as product is used outdoors generally natural ventilation is adequate.
<u>Personal Protective Equipment</u>	
Respiratory system:	Where insufficient ventilation, use suitable respiratory protection.
Skin and body:	When opening the container, preparing spray and using prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and goggles.
Hands:	Elbow-length and chemical resistant gloves.
Eyes:	Wear chemical goggles or face shield.
General hygiene:	Avoid inhaling aerosols and vapours. Avoid contact with eyes and skin. Store work clothes and street clothes separately. Wash hand before breaks and at the end of work. Change contaminated protective clothing. Keep away from food, drinks and tobacco.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Solid
Colour:	beige
Odour:	Slightly characteristic
pH value:	6.0 – 7.5 (1% solution)
Density:	Approx – .63g/ml (refer to specific batch)
Solubility in water:	Disperses in water.
Flash point:	does not flash (non-flammable)
Autoignition:	Auto-ignition temp = 159°

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions of use.
Conditions to avoid:	Direct sunlight, extreme heat or Cold.
Materials to avoid:	Strong oxidizers, acids, dampness.
Hazardous decomposition Products:	Ethylene thiourea and carbon disulphide.
Hazardous reactions :	None expected when stored and handled according to the label.

11. TOXICOLOGICAL INFORMATION

Acute toxicity – Oral :	LD ₅₀ > 4470 mg/kg (rat)
Acute toxicity - Dermal :	LD ₅₀ > 2000 mg/kg (rat)
Acute toxicity – Inhalation	LC ₅₀ > 4.6 mg/l air (4 h) - rat
Skin irritation :	Non irritating (rabbit)
Eye irritation:	Moderate irritating (rabbit)
Sensitization :	Non-Sensitizer (guinea pig)

12. ECOLOGICAL INFORMATION

Data for technical active ingredient:

Toxicity to fish:	LC ₅₀ (96 h) 2.2mg/l rainbow trout
Toxicity to daphnia:	EC ₅₀ (48 h) 3.8mg/L, daphnia magna (pencycuron)
Toxicity to algae:	EC ₅₀ (120 h) 0.044mg/L, green algae

13. DISPOSAL CONSIDERATIONS

Methods of disposal :	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.
Container disposal:	Ensure container is completely empty. Burn in an appropriate incinerator if circumstances such as wind direction permit. Otherwise bury in a approved landfill.

14. TRANSPORT INFORMATION - International transport regulations (Land, Sea and Air)

UN number: 3077
Class: 9
Packing Group: III
Marine Pollutant: Yes
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
SOLID, N.O.S. (mancozeb)

15. REGULATORY INFORMATION

ACVM Registered Number: **P8105** (See www.foodsafety.govt.nz for registration Conditions).
HSNO Approval Code: **HSR000808** (See www.epa.govt.nz for controls).

Approved Handler: When in use

Not required

Tracking:

16. OTHER INFORMATION

Disclaimer EXCLUSION OF LIABILITY: PLEASE READ

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