

1: Identification of the Substance and Supplier

Product Name MANCO 75WG

Recommended Use Fungicide

Suppliers Details Orion AgriScience Ltd

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Telephone Number (03) 928 2386 (office hours), 0800 674 6627 (free phone)

 Emergency Telephone
 0800 CHEMCALL (0800 243 622) (24 hours)

 National Poison Centre
 0800 POISON (0800 764 766) (24 hours)

Date of Issue/Revision June 2020

2: Hazards Identification

Hazard Pictograms

Signal Words

Hazard Classes:

6.3B Skin Irritation (Cat. 3)

6.4A Eye Irritation (Cat. 2)

6.5B Skin Sensitisation (Cat. 1)

6.9B Target Organ Systemic Toxicity (Oral Cat. 2)

9.1A Aquatic Ecotoxicity (Cat. 1)

Precautionary Statements:

Prevention

Response



Warning

Hazard Statements:

H316 Causes mild skin irritation

H319 Causes serious eye irritation

H317 May cause an allergic skin reaction

H373 May cause damage to organs through prolonged or repeated exposure

H410 Very toxic to aquatic life with long lasting effects

P264 Wash hands thoroughly after handling

P280 Wear eye protection / face protection

P272 Contaminated work clothing should not be allowed out of the workplace

P280 Wear protective gloves/protective clothing/eye protection/face protection

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

Keep out of reach of children. Read label before use. Avoid contact with eyes and skin. Do not breathe in the dust or spray mist. When mixing or applying, wear personal protection as described in section 8. Take all reasonable steps to ensure that this product does not cause any significant adverse effects to the environment beyond the application area. Do not apply directly into or onto water.

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P332+P317 If skin irritation occurs get medical advice

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do so. Continue rinsing

P337+P317 If eye irritation persists: Get medical help P302+P352 IF ON SKIN: Wash with plenty of water

1302 11332 II GIV SIGN. Wash with plenty of water

P333+P317 If skin irritation or rash occurs: Get medical help P321 Specific treatment (See first aid instructions)

P362+P364 Take off contaminated clothing and wash it before reuse

P319 Get medical help if you feel unwell

P391 Collect spillage

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First aid measures described in section 4. Contain and collect spillage for disposal. In an emergency call 111, Police or Fire Brigade. For specialist advice in an emergency only,

call 0800 CHEMCALL (0800 243 6225) (24 hrs).

Storage Keep out of reach of children.

Disposal P501 Dispose of contents by using it in accordance with this label. Dispose of the

container via AgRecovery after triple rinsing (use the rinsate for spraying).

3: Composition/ Information on Ingredients

Ingredient CAS No Content (% w/w)

Mancozeb (active ingredient) 8018-01-7 75

Other ingredients Proprietary Remainder

4: First Aid Measures

If medical advice is needed, have product container or label at hand. For advice call the National Poisons Centre or a Doctor

Ingestion: Seek medical advice if feeling unwell

Skin Contact: Wash with plenty of soap and water. Seek medical advice if skin irritation or rash occurs

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if easy to do so. Continue rinsing.

Seek medical advice if irritation persists.

Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. Seek medical advice if feeling

unwell.

Workplace Facilities: Hand wash facility. Eye wash facility

Advice to Doctor: No specific requirements. Treat symptomatically.

National Poison Centre 0800 POISON (0800 764 766) (24 hours)

Symptoms of Exposure which could occur if this material is not handled in accordance with instructions:

Ingestion: Nausea, vomiting, diarrhoea

Skin Contact: Irritation. May cause an allergic skin reaction

Eye Contact: Irritation
Inhalation: Irritation

5: Fire-Fighting Measures

Fire/Explosion Hazard Non-flammable. As with many dusts, an explosive air/dust mixture may be formed if rough handling

liberates dust from the granules in enclosed or poorly ventilated areas.

HAZCHEM Code 2Z ERP Guide No 47

Extinguishing Media Water spray, foam, dry chemical or C02. Avoid water jet.

Fire Fighting Instructions During a fire, toxic fumes may be emitted. Wear self-contained breathing apparatus. Contain runoff.

Specific Hazards Arising from Fire No data available

6: Accidental Release Measures

Personal Precautions Wear protective clothing as described in section 8. Do not inhale dust. Exclude non-essential people from

the area.

Environmental Precautions Prevent further spillage or leakage. Prevent material from entering drains, waterways, etc.

Clean Up

Keep bystanders away. Do not inhale dust. If dust is generated, wear respiratory protection (with particulate

matter cartridge). Moisten to prevent dusting and carefully sweep up. Place spilled product in a sealable

container. Dispose of to a suitable landfill.

7: Handling and Storage

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Storage: Keep out of reach of children. Store in the original tightly closed container in a secure area.

Handling and Use: Keep out of reach of children. Refer to Prevention statements in section 2 above. Keep people and animals

away from the area while spraying and for the duration of the REI.

REI Until spray has dried

8: Exposure Controls / Personal Protection

Tolerable Exposure Limit

None established

Workplace Exposure Standards

None established

Engineering ControlsSelect spray application equipment to minimize exposure to operator and bystanders

Personal Protection:

Eye Safety glasses/goggles when mixing or applying

SkinCotton overalls snugly fitting at the neck, wrist and ankle, boots and water proof gloves when mixing and

applying

RespiratoryNot required where dust or spray mist is not inhaled. Otherwise, respirator (organic vapour and particulate

matter) is required.

Clean protective equipment after use

9: Physical and Chemical Properties

Appearance Light Brown Powder

Odour Mild musty

Odour Threshold No data available

pH 6.5 – 7.5 (1% dispersion)

Melting Point/Freezing PointNo data availableBoiling PointNo data availableFlash PointNot applicableFlammabilityNot flammable

Upper/Lower Flammability Limits Not available. As with many dusts, an explosive air/dust mixture may be formed if rough handling liberates

dust in enclosed or poorly ventilated areas

Vapour Pressure No data available **Vapour Density** No data available No data available **Relative Density** Solubility in Water Dispersible Partition Coefficient: n-octanol/water See section 12 **Auto ignition Temperature** Not applicable **Decomposition Temperature** No data available No data available **Kinematic Viscosity**

10: Stability and Reactivity

Stability Stable under normal conditions

Hazardous ReactionsNone ExpectedIncompatibilityNone ExpectedHazardous Decomposition ProductsNone Known

11: Toxicological Information

This section describes effects which could occur if this material is not handled in accordance with this data sheet and label instructions

Skin Irritant/Corrosive Irritant

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Eye Irritant/Corrosive Irritant

Sensitisation Effects May cause an allergic skin reaction in susceptible individuals

Mutagenic EffectsNoneCarcinogenic EffectsNoneReproductive EffectsNone

Specific Organ Toxicity Long term animal feeding studies on mancozeb has noted effects on neurotoxicity (nervous system)

12: Ecological Information

This section describes effects which could occur if this material is not handled in accordance with this data sheet and label instructions

The following information is presented in respect of the active ingredient:

• Acute Oral LD50 (Mammal) >10000 mg/kg

LC50 (48 hr) (Rainbow trout) 2.2 mg/l

• EC50 (Daphnia) 0.073 mg/l

EC50 (Algae) 1.1 mg/l

Non-toxic to bees.

Persistence/degradability Biodegradable DT50 (soil) 18 days (typical)

Bioaccumulative Potential Octanol-water partition coefficient LogP = 2.3 (low)

Soil Mobility Soil organic carbon water partitioning coefficient Koc = 998 (slightly mobile)

Environmental Exposure Limit: None established

13: Disposal Considerations

Product Dispose of product by using it in accordance with the label. Waste product should be disposed of to a

suitable landfill. For disposal of large quantities contact Orion AgriScience Ltd.

Container Dispose of to a suitable landfill or via AgRecovery. Do not burn. Do not use packaging for any other

purpose

14: Transport Information

Dangerous Goods

UN Number 3077

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (MANCOZEB 75%)

Class 9
Subsidiary Class None

Packing Group

Additional Information MARINE POLLUTANT

MTQ (Non-Commercial) 1000 Kg

Passenger Service Vehicle Maximum quantity 3 Kg

15 Regulatory Information

EPA Approval No

ACVM Registration No

P7578

Qualified Person

Certified Handler

Workplace Only

HSR000808

P7578

Required

Not required

No

Tracking Not required

Record KeepingNot required (unless > 3 Kg applied within 24 hours, and which is likely to leave the application area)

Site Requirements under EPA Notice

• A hazardous substance location compliance certificate is not required

• A hazardous area is not required

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and HSWHS Regs:



| • | Separation distances for class 3 and class 6 substances to protected places and public places is |
|---|--|
| | not applicable |

- Fire extinguishers are not required
- Signage is required for more than 100 Kg
- An emergency response plan is required for more than 100 Kg
- Secondary containment is not required
- Segregation from incompatible substances is not required

Additional Requirements

Refer to NZS 8409:2004 'Management of Agrichemicals', and relevant local and regional council plans

| 16: Other Information Glossary | | | |
|-------------------------------------|--|--|--|
| ADE | Acceptable Daily Exposure – A daily dose, received via any route, below which no adverse effects are | | |
| AUL | expected over a lifetime of exposure | | |
| ACVM | Agricultural Compounds and Veterinary Medicines group of the Ministry of Primary Industries | | |
| | | | |
| Cat. | GHS category | | |
| Ceiling | A concentration that should not be exceeded at any time during any part of the working day | | |
| Certified Handler | A qualification issued by a Compliance Certifier to handle and use particularly toxic substances (6.1A and | | |
| | 6.1B) | | |
| DT50 | Time (days) for 50% reduction in concentration | | |
| EC50 | Concentration required to produce an effect in 50% of organisms | | |
| Environmental Exposure Limit | Maximum concentration limit of a substance in an environmental medium, e.g., water, soil. | | |
| EPA Notice | Hazardous Property Controls Notice 2017 | | |
| ERP Guide | Dangerous Goods – Initial Emergency Response Guide SNZ HB 76:2008 | | |
| GHS | Globally harmonized system of classification and labelling of chemicals | | |
| Hazardous Substance Location | For locations storing hazard substances of certain classes above threshold quantities | | |
| Compliance Certificate | | | |
| Hazardous Area | A designated area designed for the presence of flammable substances - Refer AS/NZS 60079.10.1:2009 | | |
| HAZCHEM Code | Emergency action code for emergency services | | |
| HSWHS Regs | Health and Safety at Work (Hazardous Substances) Regulations 2017 | | |
| LC50 | Concentration that will kill 50% of organisms | | |
| LD50 | Dose that will kill 50% or organisms | | |
| MTQ | Maximum Transport Quantity. The maximum amount of dangerous goods that can be transported by road | | |
| | by the user | | |
| Notification | Advance notice given to neighbours and other affected parties, of details of proposed application, and | | |
| | other details as described | | |
| Octanol-Water Partition Coefficient | The partition coefficient of a substance between n-octanol and water, used as the Logarithm base 10 | | |
| | form, as an indicator that a substance may bioaccumulate | | |
| PDE | Permitted Daily Exposure - A daily dose below which no adverse effects are expected over a lifetime of | | |
| | exposure | | |
| Protected Place | Residential properties, schools, hospitals, kindys, factories, shops, warehouses, etc., and other places where | | |
| | people assemble | | |
| Public Place | A place frequented by the public, including roads (does not include private property) | | |
| Qualified Person | A requirement for the loader, contractor or person applying the product to hold a qualification such as a | | |
| | GROWSAFE Certificate, Unit Standard 21563, etc. | | |
| Record Keeping | Includes a spray diary or other record of application | | |
| REI | Restricted Entry Interval – The length of time after application before entry into the treated area is | | |
| | | | |

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permitted without the use of protective equipment. For indoor environments, this time period commences

once ventilation after treatment begins.

Segregation Certain classes of substances must not be in contact with, and must be stored separately from, certain

other classes as specified in HSWHS Regs

Separation Distances The distances specified in Part 11 and Part 13 of HSWHS Regs between storage and/or use of hazardous

substances and protected places and/or public places

Signage Positioned at entrances to commercial premises providing information on the hazardous substances

resent

Soil Adsorption Coefficient (Kd)

The ratio of the concentrations of a substance adsorbed onto a solid sorbent to that dissolved in a liquid

phase. The higher the value the less mobile the chemical is in soil

Soil Organic Carbon-Water

The ratio of the mass of a chemical that is adsorbed in the soil per unit mass of organic carbon in the soil.

Partitioning Coefficient (Koc)

The higher the value the less mobile the chemical is in soil

STEL

Short term exposure level – 15 minute time weighted average

Tolerable Exposure LimitMaximum concentration limit of a substance above which persons must not be exposed

Tracking For some particularly hazardous substances, a record must be kept of the transport, storage, sale and use

of the product

TWA Time weighted average calculated over an 8 hour working day

Workplace Exposure Standard An occupational health standard limiting concentrations of specified substances to which persons are

exposed

Workplace Only A product that is restricted to a workplace only and under the supervision of a certified handler

Please Note

Users must ensure that the most up to date version of this safety data sheet is used.

This Safety Data Sheet summarises information on this product, and how to safely handle and use the product. Each user should familiarise themselves with the product label and Safety Data Sheet, and consider the information in the context of how the product will be handled and used, including in conjunction with other products. Orion AgriScience Ltd assumes no responsibility for the accuracy, completeness or suitability of this information. The user is responsible for determining the suitability and accuracy of this information for their particular purposes.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

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