

Infosafe No™ 3NU40	Issue Date : March 2020	ISSUED by NUFARM
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 Product Name **PENNCOZEB® 750DF Fungicide**

Classified as hazardous

1. Identification

GHS Product Identifier	PENNCOZEB® 750DF Fungicide
Product Code	5360
Product Type	Group M3 Fungicide
Company Name	NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)
Address	103-105 Pipe Road Laverton North Victoria 3026 Australia
Telephone/Fax Number	Tel: +61 3 9282-1000
Emergency phone number	1800 033 498 (24hr Australia)
Email	sdsanz@nufarm.com
Recommended use of the chemical and restrictions on use	For the control of certain fungus diseases of field crops, vegetables, fruit, tobacco, turf and ornamentals as per the Directions for Use Table.
Other Information	This Safety Data Sheet describes the properties of the concentrated product. The physical properties and the assessments may not apply to the properties of the product once it has been diluted for application.

2. Hazard Identification

GHS classification of the substance/mixture	TR2 Toxic to Reproduction: Category 2 SS-1 Sensitization - Skin: Category 1
Signal Word (s)	WARNING
Hazard Statement (s)	H361 Suspected of damaging fertility or the unborn child. H317 May cause an allergic skin reaction. H400 Very toxic to aquatic life.
General Precautionary Statement (s)	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Read label before use.
Pictogram (s)	Exclamation mark, Health hazard, Environment, <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 10px;">    </div>
Precautionary statement – Prevention	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P261 Avoid breathing dusts. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves, clothing, eye and face protection.
Precautionary statement – Response	P308+P313 IF exposed or concerned: Get medical advice/attention. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P363 Wash contaminated clothing before reuse.
Other Information	Poisons Schedule S5

3. Composition/information on ingredients

Chemical Characterization	Solid		
Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Mancozeb	8018-01-7	750g/Kg
	Inerts (not hazardous)		to 100%

4. First-aid measures

Inhalation	Remove affected person to fresh air until recovered. If symptoms develop or persist, seek medical advice.
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Ingestion	If swallowed DO NOT induce vomiting. Give a glass of water. Seek medical advice if effects persist. If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 11 26.
Skin	If skin contact occurs, remove contaminated clothing and wash skin thoroughly with water. Remove contaminated clothing and launder before re-use.
Eye contact	If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes. Seek medical advice if irritation develops or persists.
Advice to Doctor	Treat symptomatically. Avoid giving alcohol - may cause vomiting and shock.

5. Fire-fighting measures

Suitable extinguishing media	None required but use water spray to cool containers or personnel threatened by fire. If involved in a fire, the product will not burn. Choose extinguishing media to suit the burning material. Avoid using large volumes of water which would spread the product.
Hazards from Combustion Products	Non-combustible. If involved in a fire, the dehydrated components may emit nitrogen and sulphur, possibly carbon disulphide or ethylene diamine and oxides of manganese or zinc.
Special Protective Equipment for fire fighters	Breathable air apparatus should be worn when fighting a fire in which mancozeb is involved.
Other Information	STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES.

6. Accidental release measures

Spills & Disposal	Recover the product by sweeping up or vacuuming without raising dust. Collect in sealed open top containers for disposal. Do not mix recovered product with combustible waste (eg. saw dust, cotton waste, paper, card board etc). Spontaneous combustion is possible in the presence of moisture.
Clean-up Methods - Large Spillages	Place damaged containers in recovery bins (if available) and return to manufacturer.
Environmental Precautions	Prevent from entering drains, waterways or sewers.

7. Handling and storage

Precautions for Safe Handling	Do NOT spray in high winds. Do NOT contaminate dams, rivers or streams, or any other water bodies with pesticide or used containers. No special precautions are necessary when handling sealed containers.
Conditions for safe storage, including any incompatibilities	Store in the closed, original container in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight.

8. Exposure controls/personal protection

Occupational exposure limit values	No exposure standard for this product has been set, however, an exposure standard has been set for manganese, dust and compounds at 1 mg/m ³ .
Appropriate engineering controls	Natural ventilation is sufficient when handling concentrate and preparing spray solution.
Respiratory Protection	Do not inhale spray mist.
Personal Protective Equipment	When opening the container and preparing the spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and face shield or goggles. Re-entry period: Do not enter treated area until spray has dried.
Hygiene Measures	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.

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9. Physical and chemical properties

Form	Solid
Appearance	Greyish free flowing granules
Melting Point	None - decomposes at about 192°C without melting
Solubility in Water	Disperses in water. Not soluble. Solubility of mancozeb is 6.2 mg/l @ 25°C
pH	6 - 7.5 (1% dispersion)
Vapour Pressure	Negligible at 20°C mancozeb
Volatile Component	None
Flammability	Not flammable

10. Stability and reactivity

Chemical Stability	Stable under normal conditions. May decompose slowly in the presence of heat or moisture.
Incompatible Materials	Avoid contact of the concentrate with strong acids, strong oxidizing agents, quaternary ammonium salts and sequestering agents.
Hazardous Polymerization	Hazardous polymerisation is not possible.

11. Toxicological Information

Toxicology Information	No harmful effects are expected if the precautions on the label and this MSDS are followed.
Acute Toxicity - Oral	LD50 (rat) >5000 mg/kg for mancozeb technical
Acute Toxicity - Dermal	LD50 (percutaneous, rat) >2,000 mg/kg for mancozeb
Acute Toxicity - Inhalation	LC50 (rat) (4hr) 5.14 mg/l
Ingestion	The concentrate is of low toxicity if swallowed.
Inhalation	Inhalation of dust may result in respiratory irritation.
Skin	May cause sensitisation by prolonged skin contact.
Eye	May irritate the eyes.
Reproductive Toxicity	Evidence from animal studies suggests the potential for developmental toxicity on repeated or prolonged exposure.
Chronic Effects	Prolonged exposure to dust or mists containing manganese compounds can cause progressive poisoning. The signs and symptoms are apathy, loss of balance and weakness. More advanced poisoning may show evidence of central nervous system disturbance.
Skin corrosion/irritation	Mild to moderate skin irritant.
Human Effects	Prolonged and repeated exposure can occasionally cause skin irritation, conjunctivitis and bronchitis. May cause sensitisation by inhalation or skin contact.
Other Information	The Australian Acceptable Daily Intake (ADI) for mancozeb for a human is 0.006 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 0.6 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Comm. Dept. of Health and Ageing, Office of Chemical Safety, 'ADI List', June 2014).

12. Ecological information

Persistence and degradability	Mancozeb is rapidly absorbed and inactivated by contact with soil. Half life in soil is typically 6 - 15 days.
Acute Toxicity - Fish	Harmful to fish. LC50 (48hr) for rainbow trout is 0.074 mg/l.
Acute Toxicity - Daphnia	EC50 (48hr) for daphnia magna is 0.073 mg/l for mancozeb.

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Acute Toxicity - Algae EC50 for Pseudokirchneriella subcapitata is 0.044 mg/l.

Acute Toxicity - Other Organisms Bees: Not toxic to bees. LD50 193 µg/bee.
Birds: Not toxic to birds. LD50 for mancozeb is >1000 mg/kg

13. Disposal considerations

Product Disposal On site disposal of the concentrated product is not acceptable. Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, approach local authorities who hold periodic collections of unwanted chemicals (ChemClear®).

Container Disposal Shake the last amount of product from the bag into application equipment. Dispose of in accordance with local regulations. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

14. Transport information

Storage and Transport Considered non dangerous for road and rail transport (in packaging) by the Australian Code for the Transport of Dangerous Goods by Road and Rail. Ref: ADG7; SP No. AU01. For bulk shipments as Class 9, use UN 3077, HazChem code 2Z.

UN Number (Sea Transport) 3077

IMO Class/Packing Group Class 9; Packing Group III

IMO Marine Pollutant Marine Pollutant

IMO Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains Mancozeb)

15. Regulatory information

Poisons Schedule S5

Packaging & Labelling CAUTION
KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Other Information This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA). APVMA product number: 53987.

16. Other Information

Date of preparation or last revision of SDS Revised 17/03/2020
This SDS replaces document dated March 2015

Contact Person/Point Normal Hours: SDS Coordinator Phone: +61 3 9282 1000
Email : SDSANZ@nufarm.com

Revisions Highlighted The SDS was revised to include aquatic toxicity.

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...End Of MSDS...

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