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Infosafe No. 3NU40 Issue Date : July 2004

Product Name : PENNCOZEB 750DF Fungicide

Classified as hazardous according to criteria of NOHSC

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

Product Name	PENNCOZEB 750DF Fungicide
Product Code	5360
Product Use	For the control of certain fungus diseases of field crops, vegetables, fruit, tobacco, turf and ornamentals as per the Directions for Use Table.
Company Name	NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)
Address	103-105 Pipe Road Laverton North Victoria 3026 Australia
<b>Emergency Tel.</b>	24hr 1800 033 498
<b>Telephone/Telex</b>	Tel: (03) 9282-1000 Fax: (03) 9282-1001
Number	
Product Type	Group Y Fungicide
Other Information	This MSDS describes, to the best of our knowledge, the properties of the concentrated product. The physical properties and some of the assessments do not apply to the properties of the product once it has been diluted for application. Acute health effects of the diluted product are likely to be much less severe.

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

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

# **3. HAZARDS IDENTIFICATION**

Irritating to respiratory system. May cause sensitization by skin contact. Poisons Schedule 5

### **4. FIRST AID MEASURES**

**Other Information** 

Inhalation	Remove affected person to fresh air until recovered. If symptoms develop or persist, seek medical advice.
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 Poisons Information Centre on 13 11 26 (Australia).
Skin	If skin contact occurs, remove contaminated clothing and wash skin thoroughly with water. Remove contaminated clothing and launder before re-use.
Eye	If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes.
Advice to Doctor	Seek medical advice if irritation develops or persists. Treat symptomatically. Avoid giving alcohol - may cause vomiting and shock.

# **5. FIRE FIGHTING MEASURES**

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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.
Hazardous	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.
Protective Equipment	Breathable air apparatus should be worn when fighting a fire in which mancozeb is involved.
Other Information	Contain fire water. Prevent fire water from entering drains or water bodies. Hazchem code has not been assigned.

#### 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.
Environmental	Prevent from entering drains, waterways or sewers.
Precautions	
Clean-up Methods -	Place damaged containers in recovery bins (if available) and return to
Large Spillages	manufacturer.

#### 7. HANDLING AND STORAGE

Handling	Do NOT spray in high winds. Do NOT contaminate dams, rivers or streams, or any other water bodies with pesticide or used containers.
Storage	No special precautions are necessary when handling sealed containers. 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

Exposure Limits No exposure standard for this product has been set, however, an exposure standard has been set for manganese, dust and compounds at 1 mg/m3.

Respiratory Protection Do not inhale spray mist.

 Personal Protective
 When opening the container and preparing the spray wear cotton overalls buttoned

 Equipment
 to the neck and wrist and a washable hat, elbow-length PVC gloves and face shield or goggles.

 Eng. Controls
 Natural ventilation is sufficient when handling concentrate and preparing spray solution.

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.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Greyish free flowing granules	
<b>Melting Point</b>	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	
Vapour Pressure	Negligible at 20°C mancozeb	
Volatile Component	None	
Flammability	Not flammable	

#### **10. STABILITY AND REACTIVITY**



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Stability	Stable under normal conditions.
Hazardous	Hazardous polymerisation is not possible.
Polymerization	
Materials to Avoid	Avoid contact of the concentrate with strong acids.

# **11. TOXICOLOGICAL INFORMATION**

Toxicology Information	No harmful effects are expected if the precautions on the label and this MSDS are followed.
Inhalation	Inhalation of dust may result in respiratory irritation.
Ingestion	The concentrate is of low toxicity if swallowed.
Skin	May cause sensitisation by prolonged skin contact.
Eye	May irritate the eyes.
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.
Acute Toxicity - Oral	LD50 (rat) >5000 mg/kg for mancozeb technical
Acute Toxicity - Dermal	LD50 (percutaneous, rat) >10,000 mg/kg for mancozeb LD50 (percutaneous, rabbit) >5,000 mg/kg for mancozeb
Skin 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, 'ADI List', TGA, August 2003).

# **12. ECOLOGICAL INFORMATION**

Persistence /	Mancozeb is rapidly absorbed and inactivated by contact with soil.	
Degradability	Half life in soil is typically 6 - 15 days.	
Acute Toxicity - Fish	Harmful to fish. LC50 (48hr) for goldfish is 9.0 mg/l.	
	Harmful to fish. LC50 (48hr) for rainbow trout is 2.2 mg/l.	
	Harmful to fish. LC50 (48hr) for carp is 4.0 mg/l.	
Acute Toxicity - Other Bees: Not toxic to bees. LD50 193 µg/bee.		
Organisms	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 (ChemCollect).
	contections of unwanted chemicars (chemicorrect).
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**

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# Product Name : PENNCOZEB 750DF Fungicide

Classified as hazardous according to criteria of NOHSC **DG Class** None Allocated Hazchem Code None Allocated **Packing Group** None Allocated Storage and Transport Considered non dangerous for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail. UN Number (Sea 3077 **Transport**) IMO Class/Packing Class 9; Packing Group III Group IMO Proper Shipping ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains Mancozeb) Name **15. REGULATORY INFORMATION Risk Phrase** R37 Irritating to respiratory system. R43 May cause sensitization by skin contact. **Safety Phrase** S24/25 Avoid contact with skin and eyes. S46 If swallowed, seek medical advice immediately and show this container or label. S8 Keep container dry. **Poisons Schedule** S5

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Hazard Category	Irritant
Packaging &	CAUTION
Labelling	KEEP OUT OF REACH OF CHILDREN
	READ SAFETY DIRECTIONS BEFORE OPENING OR USING
AICS (Australia)	All of the components in this product are listed on the Australian Inventory of
	Chemical Substances.

### **16. OTHER INFORMATION**

 Contact Person/Point
 Normal Hours:
 Mr Volker Maier
 Phone: (03) 9282 1000

 After Hours:
 Shift Supervisor
 Phone: 1800 033 498

 Revisions Highlighted
 The MSDS was reviewed. Minor changes were made to the information. The MSDS is now issued in a 16 header format.

 ...End Of MSDS...