



# DAVID GRAY & CO PTY LIMITED

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Page 1 of 5

## MATERIAL SAFETY DATA SHEET

### IDENTIFICATION

HAZARDOUS ACCORDING TO CRITERIA OF WORKSAFE AUSTRALIA

Product name: David Grays Mancozeb Fungicide 750 DF  
Substance: Mancozeb is a dithiocarbamate compound  
PROPER SHIPPING NAME (ADG Code): None allocated  
UN NUMBER: None allocated  
DANGEROUS GOODS CLASS: None allocated  
SUBSIDIARY-RISK: None allocated  
PACKING GROUP: None allocated  
HAZCHEM CODE: None allocated  
POISONS SCHEDULE: 5 Caution  
USE: For control of various Fungal Diseases on some Fruit and Vegetables, Flowers and Shrubs in the home garden

### PHYSICAL DESCRIPTION / PROPERTIES

APPEARANCE: Fine yellow powder  
MELTING POINT: Not applicable  
BOILING POINT: Not applicable  
VAPOUR PRESSURE: Not applicable  
DENSITY: Not applicable  
FLASH POINT: Not applicable  
FLAMMABILITY LIMITS: Not applicable  
SOLUBILITY IN WATER: Disperses in water (wetable powder)  
CORROSIVENESS: Slightly corrosive to mild steel  
OTHER PROPERTIES: Product decomposes > 120°C.

### INGREDIENTS

| CHEMICAL NAME                              | CAS.NO.   | PROPORTION |
|--|-----------|------------|
| Mancozeb                                   | 8010-01-7 | 750g/kg    |
| Ingredients determined to be non hazardous | -         | To 100%    |

## HEALTH HAZARD INFORMATION

### HEALTH EFFECTS

**HAZARD CLASSIFICATION (In accordance with criteria of Worksafe Australia):** Xn – Harmful

**RISK PHRASES:** R43 – May cause sensitisation by skin contact  
R37 – Irritating to the respiratory system.

**SAFETY PHRASES:** S2 – Keep out of reach of children  
S24/25 – Avoid contact with skin and eyes.  
S46 – If swallowed, contact a doctor or Poisons Information Centre immediately.  
National Poisons Information Centre 131 126

#### GENERAL:

No adverse health effects are expected when the product is used in accordance with label directions. Poisoning symptoms include itching, scratchy throat, sneezing, coughing, inflammation of the nose or throat, and bronchitis.

#### ACUTE

##### SWALLOWED:

The acute oral toxicity is low. Oral LD50 (rat) 5000mg/kg (Mancozeb).

For product Oral LD50 (rat) 6250mg/kg

##### EYE:

Moderate eye irritant.

##### SKIN:

The acute dermal toxicity is low. Repeated skin contact may cause allergic reactions.  
Dermal LD50 (rabbit) >5000mg/kg (Mancozeb).

##### INHALED:

The acute inhalation toxicity is moderate. Excessive exposure to dust may be harmful. Prolonged exposure to the dust may cause eye and respiratory irritation, dizziness and headaches.  
Inhalation LD50 (rat) = Not available mg/m<sup>3</sup> (4 hours) (Mancozeb).

##### CHRONIC:

No adverse health effects are expected when the product is used in accordance with label directions.

### FIRST AID

#### GENERAL:

In every case of suspected poisoning contact a doctor or a Poisons Information Centre immediately.

#### SWALLOWED:

Seek medical attention immediately.

**NOTE:** Do not give fluids if patient is unconscious or convulsing.

#### EYE:

Hold eyelids open and flush eyes with water for at least fifteen minutes. Seek medical attention if symptoms occur.

**SKIN:**

Immediately remove contaminated clothing and wash skin thoroughly with soap and water for at least fifteen minutes. If symptoms of poisoning occur, seek medical attention immediately.

**INHALED:**

Immediately remove patient to fresh air. If difficulty in breathing is experienced, give oxygen and artificial respiration if necessary. Seek medical attention if symptoms occur.

**FIRST AID FACILITIES:**

Soap, water.

**ADVICE TO DOCTOR:**

Treat symptomatically

## PRECAUTIONS FOR USE

**EXPOSURE STANDARDS:**

Worksafe Occupational Exposure Standard (TWA – Time Weighted Average)

No data available

Time Weighted Average (TWA) means the average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day working week.

**ENGINEERING CONTROLS:**

Use only in a well ventilated area

**PERSONAL PROTECTION:**

Gloves, glasses and dust mask

**FLAMMABILITY:**

Product is not flammable

## SAFE HANDLING INFORMATION

**STORAGE**

Store product in original container only in a locked, well-ventilated area, out of direct sunlight and out of the reach of children. Keep away from foodstuffs.

**TRANSPORT**

Product is not classified as a dangerous good in accordance with the Australian Code for the Transport of Dangerous Goods by Road and Rail.

**SPILLAGE**

Wear appropriate clothing while cleaning up spill (see Personal Protection). Prevent entry into drainage systems, waterways, rivers, etc. Sweep up the material. If product spilt indoors, wash contaminated surfaces with a damp cloth.

## DISPOSAL

Place empty container in a plastic bag and place in the garbage.

## FIRE/EXPLOSION HAZARD

Not a fire or explosion hazard

### HAZARDOUS DECOMPOSITION PRODUCTS:

Hydrogen sulfite and carbon disulfide

### FIRE FIGHTING EQUIPMENT:

Foam, carbon dioxide (CO<sub>2</sub>), or dry chemical extinguishers may be used. Run-off must be contained.

## OTHER INFORMATION

### ECOTOXICITY DATA:

Mancozeb is slightly toxic to birds, moderately toxic to fish and is not hazardous to bees.

### ENVIRONMENTAL FATE:

Mancozeb breaks down in the soil and has a half-life of 4-8 weeks under normal field conditions.

## CONTACT POINT

**TITLE:** Technical Department

**TELEPHONE NUMBER:** (08) 9337 4933

**AUTHORISED:** Celine Schnell

**DATE:** 13.10.2010

### NOTICE:

This Material Safety Data Sheet has been developed according to the Worksafe Australia/NOHSC Codes of Practice.

The information contained herein is given in good faith however and is considered to be accurate at the specified issue date. No warranty expressed or implied is made to the accuracy or completeness of the data and information contained herein.

No person, other than an authorised representative of David Gray & Company Pty Ltd, has the authority to make any alterations to this MSDS.

Contact David Gray & Co Pty Limited for further product information on (08) 9337 4933 during normal business hours.