

**MANTLE® FUNGICIDE SEED DRESSING**

MSDS No: FMAN001AU

DATE OF ISSUE: 19<sup>th</sup> April, 2004

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**STATEMENT OF HAZARDOUS NATURE**

Mantle has been determined as hazardous according to the criteria of the National Occupational Health & Safety Commission.

**COMPANY DETAILS**

COMPANY: Crompton Specialties Pty Ltd  
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**IDENTIFICATION**

PRODUCT NAME: Mantle Fungicide Seed Dressing  
OTHER NAMES: Metalaxyl  
MANUFACTURER'S CODE: No code number  
UN NUMBER: None allocated  
DANGEROUS GOODS CLASS: None Allocated  
HAZCHEM CODE: None Allocated  
POISONS SCHEDULE NUMBER: S 5  
USE: Fungicide used in agricultural applications.

**PHYSICAL DESCRIPTION/PROPERTIES:**

APPEARANCE AND ODOUR: Bright pink coloured granulated powder. Characteristic odour.  
MELTING POINT: Decomposes before melting.  
BOILING POINT: Not Applicable  
VAPOUR PRESSURE @ 20°C): No data  
SPECIFIC GRAVITY (H<sub>2</sub>O = 1): No data  
FLASHPOINT: Not flammable  
FLAMMABILITY LIMITS (%): Not Available  
SOLUBILITY IN WATER: Insoluble

**INGREDIENTS:**

CHEMICAL ENTITY	CAS NUMBER	PROPORTION
Metalaxyl	57837-19-1	35
Inorganic Filler	secret	40-60
Other non hazardous ingredients	secret	to 100

This is a commercial product whose exact ratio of components may vary. Trace quantities are also likely.

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**HEALTH HAZARD INFORMATION**

Mantle is classified as hazardous according to the National Occupational Health and Safety Commission approved criteria.

**Harmful (Xn):** R22 Harmful if Swallowed

**HEALTH EFFECTS:****ACUTE**

**Swallowed:** Data suggests that this product is harmful if swallowed.

Acute Oral LD<sub>50</sub> = 669 mg/kg in rats (Metalaxyl)

**Eye:** This product may irritate eyes. However, it is unlikely to cause anymore than mild transient discomfort. It is also unlikely to cause any significant lasting effects.

**Skin:** This product may irritate skin. However, it is unlikely to cause more than minor discomfort or effects such as itchiness or slight reddening.

Acute Dermal LD<sub>50</sub> > 3100 mg/kg in rats (Metalaxyl)

**Inhaled:** Data suggests that this product should present no significant problems to typical persons if used as intended.

**CHRONIC**

Long term studies of metalaxyl on animals showed no reproductive, teratogenic and mutagenic effects. Available studies of the carcinogenicity of metalaxyl are inconclusive. Long term exposure to metalaxyl may cause liver damage.

**FIRST AID:**

If poisoning occurs, contact a Doctor or Poisons Information Centre. *Phone Australia* 131 126.

**Swallowed:** If swallowed and if more than 15 minutes from a hospital induce vomiting preferably using Ipecac Syrup APF.

**Eye:** If product gets in eyes, wash material from them with running water. If they begin watering or reddening, take special care in washing thoroughly.

**Skin:** If product gets on skin, wash skin to remove material. No further measures should normally be required unless irritation is noticed. If irritation persists, seek medical attention.

**Inhaled:** No first aid measures normally required. However, if mists or dusts have been inhaled, and irritation has developed, remove to fresh air and observe until recovered. If irritation persists more than about 30 minutes, seek medical advice.

**FIRST AID FACILITIES:**

Eye wash station

**ADVICE TO DOCTOR:**

Treat symptomatically.

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**PRECAUTIONS FOR USE****EXPOSURE STANDARDS:**

A time weighted average (TWA) concentration for an 8 hour day, and 5 day week has not been established by Worksafe Australia for any of the major ingredients in this product. There is a blanket limit of 10 mg/m<sup>3</sup> for ducts or mists when limits have not otherwise been established. The nature of this product makes it unlikely that this level will be approached in normal use.

**ENGINEERING STANDARDS:**

In industrial situations, concentration values below the TWA value should be maintained. Values may be reduced by process modification, use of local exhaust, ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify the process or environment to reduce the problem.

**PERSONAL PROTECTION:**

**Respiratory Protection:** It is usually safe to not use a dust mask or respirator protection on account of this product. However, if the product is being used in dusty or confined conditions, use of a mask or respirator may be preferred.

**Protective Gloves:** Impermeable protective gloves should be worn when you are using this product, to prevent irritation.

**Eye Protection:** Protective eyewear is not normally necessary when using this product. However, it is always prudent to use protective eye wear.

**Clothing:** This product is essentially safe to use without special protective clothing. However, its use is recommended as a good industrial practice. Clean overalls or protective clothing should be worn, preferably with an apron.

**Safety Boots:** Wearing safety boots in industrial situations is advisory.

Always wash hands before smoking, eating, or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

**FLAMMABILITY:**

Not flammable under conditions of use.

**SAFE HANDLING INFORMATION**

**Safety phrases:** S20 When using, do not eat or drink.

**STORAGE AND TRANSPORT:**

Not defined as a dangerous good by the Australian Code for the transport of Dangerous Goods by Road and Rail. This material is a Scheduled Poison (S5) and must be stored, maintained and used according to the relevant regulations.

Containers should be kept closed in order to minimise contamination. Keep from extreme heat and open flames, and make sure that the product does not come into contact with strong oxidising agents. Keep away from children, animals, food and food stuffs. Storage must be secure, and/or seals in order, so contacts cannot be tampered with.

**SPILLS:**

In the event of major spill, prevent spillage from entering drains or water courses. Wear full protective clothing including face mask, face shield and gauntlets. All skin areas should be covered. Though launder protective clothing before storage or re-use. Stop leak is safe to do so, and contain spill. Sweep up and shovel or collect recoverable product into labeled containers for recycling or salvage. After spills, wash area, preventing runoff from entering drains. If there is contamination of crops or waterways, advise emergency services or state department of agriculture.

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**DISPOSAL:**

**Disposal after intended use:** Break, crush or puncture and bury empty containers in a local authority landfill. If not 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.

**Disposal after accident or spill:** Dispose of sealed containers at an approved local waste disposal site.

**FIRE/EXPLOSION HAZARD:**

There is no risk of an explosion from Mantle under normal circumstances if it is involved in a fire.

**Flammability:** Not applicable. This product is not flammable.

**Extinguishing Media:** Use dry chemical, CO<sub>2</sub>, water spray or foam.

**Special Fire & Explosion Hazards:** Fire decomposition products from Mantle may form toxic and corrosive mixtures in confined spaces.

**Decomposition Products:** Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Nitrogen and under some circumstances, oxides of nitrogen. Water.

**Materials to avoid:** strong oxidising agents.

**OTHER INFORMATION****ENVIRONMENTAL HAZARDS:**

Do not feed or otherwise expose treated seed to wild animals and birds.

Do not contaminate streams, rivers or waterways and drains with this product or used containers.

Metalaxyl is practically non toxic to birds, aquatic organisms and bees.

Daphnia magna LC<sub>50</sub> = 12.5 – 28 mg/L (metalaxyl)

**IMPORTANT PLEASE READ:**

This Material Safety Data Sheet provides certain basic health and safety information ("Information") about Mantle Fungicide Seed Dressing ("Product").

You should read the Information carefully. This product may be dangerous if not handled or used properly. You should not use the Product unless you are satisfied after reading the Information that it is suitable for your purposes outline.

Crompton Specialties Pty Ltd and its related companies and distributors ("Crompton") shall not be liable (including, without limitation, liable in negligence) for any expenses, losses, damages or costs that you may suffer or incur as a result of your failure to read the Information carefully or the Product being incapable of achieving any purpose.

Crompton excludes all implied conditions, warranties and other terms implied by statute or common law, except any implied condition or warranty the exclusion of which would contravene any statute or cause any part of this paragraph to be void ("Non-excludable Condition"). In the event of any breach of any Non-excludable Condition (other than where the customer is a "consumer" as defined under the Trade Practices Act and there is a breach of any Non-excludable Condition in respect of goods or service of a kind ordinarily acquired for personal, domestic or household use or consumption) Crompton's liability shall be limited to any one of supplying, replacing or repairing the goods in respect of which the breach occurred.

**CONTACT POINT:**

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