



1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Mantle Fungicide Seed Dressing
Other Names: Metalaxyl
Product Codes: None allocated
Recommended Use: Fungicide used in agricultural applications
Chemical Family: Phenylamide
Supplier: Chemtura Australia Pty Ltd
ABN: 005 225 507
Street Address: Level 7, 435 King William Street
Adelaide South Australia 5000
Telephone Number: 61 8 8112 0900
Facsimile Number: 61 8 8112 0999
Emergency Telephone: **1800 033 111 (24-hour service)**

2. HAZARDS IDENTIFICATION

Hazard Classification: **HAZARDOUS SUBSTANCE, NON-DANGEROUS GOOD**
Classified according to the criteria of the National Occupational Health and Safety Commission (NOHSC).

Risk Phrases: Harmful (Xn)
R22- ...Harmful if swallowed
R41 Risk of serious eye damage

Safety Phrases: S26 ...In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S39 Wear eye/face protection
S46 If swallowed, seek medical advice immediately and show this container or label

Poisons Schedule: S5

Dangerous Goods Class: This product is not a dangerous good

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Identity	Common Name(s) and Synonym(s)	CAS Number	Proportion by Weight
Metalaxyl	Metalaxyl	57837-19-1	30-60% (350g/kg)
	Inorganic Filler	secret	30-60%
	Other non hazardous ingredients	secret	10-30%

Note: Australian and US Patents apply.

4. FIRST AID MEASURES

Ingestion: If poisoning occurs contact a doctor or Poison Information Centre. Phone Australia 131 126; New Zealand 03 4747 000

Inhalation: 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

Eye Contact:	30 minutes, seek medical attention. 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 Contact:	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.
First Aid Facilities:	Eye wash station
Advice to Doctor:	Treat symptomatically
Additional Information	If poisoning occurs contact a doctor or Poison Information Centre. Phone Australia 131 126; New Zealand 03 4747 000

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	Use dry chemical, CO ₂ , water spray or foam.
Hazards from Combustion Products:	Decomposition Products: Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Nitrogen and under some circumstances, oxides of nitrogen. Water. Special Fire & Explosion Hazards: Fire decomposition products from Mantle may form toxic and corrosive mixtures in confined spaces.
Materials to avoid:	Strong oxidising agents.
Precautions for Fire fighters and Special Protective Equipment:	None allocated
HazChem Code:	None allocated.
Additional Information:	This product is not flammable. There is no risk of an explosion from Mantle under normal circumstances if it is involved in a fire.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures:	
Methods and Materials for Containment and Clean-Up Procedures:	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.
	DISPOSAL AFTER ACCIDENT OR SPILL: Dispose of sealed containers at an approved local waste disposal site.

7. HANDLING AND STORAGE

Precautions for Safe Handling:	Avoid contact with eyes and skin. Do not inhale dust or spray mist.
Conditions for Safe Storage:	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.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

National 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 ³ for dusts 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.
Biological Limit Values:	Not applicable.
Engineering Controls:	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 Protective Equipment (PPE):

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Bright pink coloured granulated powder.
Odour:	Characteristic odour.
pH:	Not available
Boiling Point:	Not determined.
Melting Point:	Not determined.
Solubility:	Insoluble in water.
Specific Gravity (Water = 1):	No data available
Decomposition Temp:	Not determined.
Flashpoint:	Not flammable.

10. STABILITY AND REACTIVITY

Chemical Stability:	Not available
Conditions to Avoid:	Strong oxidising agents
Incompatible Materials:	Not available
Hazardous Decomposition Products:	Fire decomposition products from Mantle may form toxic and corrosive mixtures in confined spaces. Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Nitrogen and under some circumstances, oxides of nitrogen. Water.
Hazardous Reactions:	None recorded
Polymerisation:	Not relevant

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure:	<u>Swallowed:</u> Data suggests that this product is harmful if swallowed. Acute Oral LD50 = 669 mg/kg in rats (Metalaxyl)
Acute Health Effects:	<u>Eye:</u> 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. <u>Skin:</u> 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 LD50 > 3100 mg/kg in rats (Metalaxyl)
Chronic Health Effects:	<u>Inhaled:</u> Data suggests that this product should present no significant problems to typical persons if used as intended. 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.

12. ECOLOGICAL 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 LC50 = 12.5 - 28 mg/L (metalaxyl)
Persistence/Degradability:	Not available
Mobility:	Not available

13. DISPOSAL CONSIDERATIONS

Disposal Method(s): 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.

Precautions for Landfill or Incineration: Empty containers and product should not be burnt.

14. TRANSPORT INFORMATION

UN Number: None allocated.

UN Proper Shipping Name: None allocated.

DG Class & Subsidiary Risk: None allocated.

Packing Group: None allocated.

EPG/GTEPG: Not relevant.

Special Precautions for User: None allocated.

HazChem Code: None allocated.

15. REGULATORY INFORMATION

Poisons Schedule: S5

Additional Information: APVMA Product No. 52418

16. OTHER INFORMATION

Date of Preparation: April, 2006

Revision Date: August, 2008

Revision Number: 1

Revision Summary: Rev 1 - Update of Chemtura contact details

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~END OF SAFETY DATA SHEET~