
1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Evershield Seed Treatment
Other Names: Thiabendazole / Thiram
Product Codes: None allocated
Recommended Use: For use as a seed treatment fungicide prior to sowing.
Chemical Family: Triazole / Carbamate
Supplier: Chemtura Australia Pty Ltd
ABN: 18 005 225 507
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: R43, R68, R20/22, R36/37. May cause sensitisation by skin contact. Possible risk or irreversible effects. Harmful by inhalation and if swallowed. Irritating to eyes and respiratory system.

Safety Phrases: S2, S20, S23, S28, S38, S46, S24/25, S36/37/39. Keep out of reach of children. When using, do not eat or drink. Do not breathe dusts or spray mists. After contact with skin, wash immediately with plenty of soap and water. In case of insufficient ventilation, wear suitable respiratory equipment. If swallowed, contact a doctor or Poisons Information Centre immediately and show this MSDS or label. Avoid contact with skin and eyes. Wear suitable protective clothing, gloves and eye/face protection.

Poisons Schedule: S6

Dangerous Goods Class: Class 9: Miscellaneous Dangerous Good for Marine Transport only

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Identity	Common Name(s) and Synonym(s)	CAS Number	Concentration
Tetramethylthiuram disulphide	Thiram	137-26-8	360 g/L
Thiabendazole	Thiabendazole	148-79-8	200 g/L
Other non-hazardous ingredients	Various	Various	<10
Water	Water	7732-18-5	To 100

Note: Australian and US Patents apply.

4. FIRST AID MEASURES

Ingestion: If swallowed, do NOT induce vomiting. Wash mouth with water and contact a Poisons Information Centre, or call a doctor

Inhalation: If symptoms of poisoning are evident, contact a Poisons Information Centre, or call a doctor at once. Remove source of contamination or move victim to fresh air. If breathing is difficult, oxygen may be beneficial if administered by trained personnel, preferable on doctor's advice. DO NOT allow victim to move about unnecessarily. Symptoms or pulmonary oedema can be delayed up to 48 hours after exposure.

Eye Contact: Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 20 minutes or until the product is removed, while holding the eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face. Obtain medical attention immediately. Take special

Skin Contact:	care if exposed person is wearing contact lenses. Wash gently and thoroughly with water (use non-abrasive soap if necessary) for 5 minutes or until chemical is removed.
Advice to Doctor:	Provide material safety data sheet to doctor.
First Aid Facilities:	Eye wash station.
Additional Information:	If poisoning occurs contact a doctor or Poison Information Centre. <i>Phone Australia 131 126; New Zealand 0800 764 766.</i>

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	Alcohol resistant foam is the preferred firefighting medium but, if it is not available, normal foam can be used. Try to contain spills, minimise spillage entering the drains or water courses.
Hazards from Combustion Products:	No data available.
Precautions for Fire fighters and Special Protective Equipment:	Body covering protective clothing, full 'turn-out' gear. Self contained breathing apparatus.
HazChem Code:	3Z
Additional Information:	Do not discharge extinguishing waters into streams, rivers and lakes.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures:	Personal precautions: Wear suitable protective equipment. Environmental precautions: Prevent from entering sewer system, surface water or soil. May be harmful to aquatic life.
Methods and Materials for Containment and Clean-Up Procedures:	Small spills: Absorb on inert material such as sand, earth, vermiculite or wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable, closed containers for disposal. Collect for disposal. Large spills: Dike to contain spill. Pump excess material into suitable container (metal drums, metal tank or such)

7. HANDLING AND STORAGE

Precautions for Safe Handling:	Avoid contact with eyes, skin and clothing. Use with adequate ventilation.
Conditions for Safe Storage:	Keep out of reach of children. Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

National Exposure Standards:	No value assigned for this specific material by the National Occupational Health and Safety Commission (NOHSC). However, for Thiram, TWA = 1 mg/m ³ The exposure limit is expressed as a time weighted average (TWA) concentration over an 8 hour working shift for a 5 day working week, and is the exposure standard recommended by Worksafe Australia.
Engineering Controls:	Ventilation: General (mechanical) room ventilation is expected to be satisfactory. Local ventilation is needed in the presence of airborne mists, sprays or aerosols and/or high vapour concentrations.
Personal Protective Equipment (PPE):	Respiratory protection: May be needed if product is used in a confined or poorly ventilated area. All respirators must be NIOSH approved. Hand protection/protective gloves: Elbow length chemical resistant protective gloves. Eye protection: Safety glasses with side shields. Skin protection: Wear cotton overalls buttoned to the neck and wrist (or equivalent clothing). Other protective equipment: Eye bath, safety shower.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Green opaque liquid
Odour:	Mild odour
pH:	No data
Melting Point:	Approximately 0°C
Solubility:	Completely soluble in water
Density:	1.13 g/cm ³
Decomposition Temp:	Not determined
Flashpoint:	Does not burn
Vapour Pressure:	2.37 kPa at 20°C

10. STABILITY AND REACTIVITY

Chemical Stability:	This product is stable under normal storage and handling conditions.
Conditions to Avoid:	Mixture with incompatible materials.
Incompatible Materials:	Oxidizing agents, strong acids, strong bases.
Hazardous Combustion Products:	No data available
Polymerisation:	Will not occur

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure:

Acute Health Effects:	Thiram: Acute oral LD50 (rat) >620 mg/kg bw Acute inhalation 4 hLC50 (rats) > 500 mg/m ³ Eye irritation: irritant Acute dermal irritation: irritant Acute dermal LD50 >1000 mg/kg bw Thiram is a sensitizer
Chronic Health Effects:	No data is available on the product itself

12. ECOLOGICAL INFORMATION

Ecotoxicity:	Toxicology (Thiram): Red-winged blackbird (acute oral): LD50: > 100mg/kg bw Japanese quail (5 day dietary): LC50 > 5000 ppm Mallard duck (5 day dietary): LC50 = 673 ppm Rainbow trout: LC50 = 0.13mg/L Bluegill sunfish: LC50 = 0.23mg/L Honey bee: Non-toxic
Persistence/Degradability:	Thiram: Low to moderate persistence
Mobility:	Low leaching potential.

13. DISPOSAL CONSIDERATIONS

Disposal Method(s):	Triple or preferably pressure rinse containers before disposal. Add rinsings to application equipment, or dispose of rinsings according to State/Territory legislative requirements. DO NOT dispose of undiluted chemicals on site. If not recycling, break, crush or puncture and deliver empty packaging to an approved waste management facility. DO NOT burn empty containers or product.
Precautions for Landfill or Incineration:	If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit. Empty containers and product should not be burnt.

14. TRANSPORT INFORMATION

UN Number: 3082
UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSATANCE, LIQUID, N.O.S.
DG Class & Subsidiary Risk: 9
Packing Group: III
EPG/GTEPG: None allocated
Special Precautions for User: Not available
HazChem Code: 3Z
Other Information: Not subject to the ADG Code when transported by Road or Rail. (ADG 7, Special Provision AU01)

15. REGULATORY INFORMATION

Poisons Schedule: S6
Additional Information: APVMA Product No. 65237

16. OTHER INFORMATION

Date of Preparation: September, 2010
Revision Date:
Revision Number: 0
Revision Summary: Rev 0 - Evershield Seed Treatment

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