



SAFETY DATA SHEET

Thiram WDG

Date of Issue: 14 February 2013

1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

Chemical name of active ingredient(s): Thiram

Recommended use: Fungicide

Supplier: Agrisource Limited
PO Box 789
Pukekohe
+64 9 237 1081

Emergency telephone number: 0800 Poison (0800 764 766) 24 Hours

2. HAZARDS IDENTIFICATION

Hazard Classification: 6.1C, 6.3B, 6.4A, 6.5B, 6.9B, 9.1A, 9.3B
APPROVED HANDLER APPLIES ENVIRONMENTAL WARNING:
VERY TOXIC TO AQUATIC ORGANISMS.
Avoid contamination of any water supply with product or empty container.

Required Identification Details: **TOXIC TO TERRESTRIAL VERTEBRATES.**
This substance can cause irritation to sensitive persons.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation Information on hazardous ingredients

Common name	CAS No	%
Thiram	137-26-8	80

4. FIRST-AID MEASURES

Description of necessary first aid measures:

Effects and symptoms **TOXIC** – may be fatal if swallowed inhaled or absorbed through the skin. **HARMFUL** - May cause irritation or sensitization from prolonged skin contact. Avoid skin contact. May cause eye irritation. Avoid eye contact. Repeated oral

exposure at high doses may cause damage to heart, kidneys and cardiovascular system.

If swallowed DO NOT induce vomiting. For advice, contact the National Poisons Centre 0800 Poison (0800 764 766) or a doctor immediately. If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. DO NOT SCRUB THE SKIN. If concentrate is splashed in the eyes, flush with running water for at least 15 minutes. Take to hospital without delay.

First-aid measures

Inhalation:

Remove patient to fresh air. If not breathing, give artificial respiration, preferably mouth-to-nose. Get medical attention if symptoms develop.

Ingestion:

DO NOT induce vomiting. For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. Do not give anything by mouth to an unconscious person.

Skin contact:

If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water and soap. Wash clothing before reuse. Destroy contaminated shoes and other contaminated leather articles such as belts and watchbands.

Eye contact:

Hold eyelids apart and flush the eye continuously with running water for at least 15 minutes. Get medical attention.

Notes to a physician:

Workplace facilities:

Required Instructions:

5. FIRE-FIGHTING MEASURES

HAZCHEM Code: 2XE

Extinguishing media : Extinguish fires with dry chemical or CO₂. During a fire toxic fumes may be released. Cool sealed drums with water to prevent rupture due to thermal expansion. Contain run-off. Keep non-involved persons away.

Hazardous thermal (de)composition products:

Protection of fire-fighters: Wear PVC protective clothing and breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Wear overalls, chemical resistant gloves, boots and safety goggles. Wash down affected area with water plus detergent.

Environmental precautions:	Prevent further spillage. Sweep up solids without generating dust.
Methods for cleaning up:	Absorb and collect washings and place in the same sealable container for disposal. Seek advice from the local authority regarding disposal.

7. HANDLING AND STORAGE

Handling:	When mixing or applying, avoid contact with skin and eyes. Wear protective clothing, gloves and goggles. Do not eat or drink while using. Wash hands and face before meals and after work. Wash protective clothing after work. Flush spray equipment thoroughly with water after use.
Storage:	Store in original container tightly closed and in a locked, dry, cool, well ventilated area, away from feed, seeds and foodstuffs. This product is classified under HSNO as 9.1A, and storage of certain quantities may require bunding and signage. See the PRODUCT SAFETY CARD for further information. When stored appropriately this product should show no significant degradation for 2 years from date of manufacture. Contact your supplier for further information about the use of any product that is older than this. <i>(include any legislative requirement and compatibility issues)</i>
Packaging materials:	

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace Exposure Guidelines

Workplace exposure standards:	No exposure limits have been specifically designed for the product. WES TWA for Thiram = 1mg/m ³
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Engineering measures

Hierarchy of controls:	Handle in well ventilated areas, generally natural ventilation is adequate.
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Personal Protective Equipment

Detail specifications for equipment:	When opening the container, preparing and using product, wear safety goggles, waterproof gloves, cotton overalls buttoned at neck and wrists, boots and approved half face mask.
General hygiene:	Do not eat, drink or smoke while using. Remove protective clothing and wash face and hands thoroughly before meals and after work. Wash protective clothing daily after work.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Whitish dispersible granule
pH:	8.0
Vapour Pressure:	Negligible at room temperature.

Solubility: Miscible
Specific gravity or density: 1.14 g/ml @20°C
Falmmability: Non-flammable

10. STABILITY AND REACTIVITY

Stability: When stored appropriately this product should show no significant signs of degradation for 2 years from date of manufacture.

Conditions to avoid: Decomposes under acidic conditions. Product may deteriorate on prolonged exposure to heat, air or moisture.

Materials to avoid: Reacts vigorously with oxidising material. Do not mix with Bordeaux mixture, copper compounds, lime sulphur or alkaline materials such as hydrated lime.

11. TOXICOLOGICAL INFORMATION

No specific toxicological data is available for the product; data below is for constituents.

Health Hazard: Symptoms of poisoning may be one or more of the following: dermatitis, nausea, vomiting, diarrhoea, hyper-excitability, weakness and unco-ordination. In association with alcohol, thiram causes violent nausea, vomiting and collapse.

Inhalation: *Harmful if inhaled. Irritating to respiratory tract.*

Ingestion: *Harmful if swallowed.*

Skin irritation : *Irritating. May cause sensitisation by skin contact.*

Eye irritation: Irritating.

12. ECOLOGICAL INFORMATION

Environmental fate: In plants the major metabolite is ethylene thiourea, followed by ethylene thiuram monosulphide, and presumably ethylene thiuram disulphide & sulphur.

Bio-accumulative potential This material has a small potential to bioaccumulate in Aquatic species.

Basis for assessment Ecotoxicological data have not been determined specifically for this product. Data is for the the active ingredient.

Ecotoxicity:

Fish LC50 (96 hours) common mirror coloured carp = 0.3 µg/L

Algae (scenedesmus subspicatus) EC50 Selenastrum caprocornutum (5D) = 0.045 ppm

Rabbits: LD -50 rabbit oral 210 mg/kg

Other Organisms: Not toxic to bees.

Other : Non phytotoxic

13. DISPOSAL CONSIDERATIONS

Methods of disposal :	Disposal of product only according to label, or at an approved landfill.
Container disposal:	Triple rinse container and add residue to spray tank. Burn if permitted and circumstances, especially wind direction allow, otherwise bury in landfill.

14. TRANSPORT INFORMATION

International transport regulations

Transport Information:	It is good practice to separate this product from food, food-related materials, animal feedstuffs, seed or fertilizers during transport.
Proper shipping name :	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (thiram 80%)
UN number:	3077
DG Class:	9
Hazchem code:	2XE
Marine Pollutant:	Yes
Subsidiary Risk Class:	none
Packing Group:	III
Maximum Transport Quantity:	250kg

15. REGULATORY INFORMATION

ACVM Registered Number:	P677
HSNO Approval Code:	HSR000738

16. OTHER INFORMATION

Contact:	EMERGENCY: DIAL 111 – FIRE OR POLICE National Poisons Centre 0800 Poison (0800 764 766)
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Disclaimer

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