

SAFETY DATA SHEET

T-KOTE

Date of Issue: 1st July 2018

1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

Chemical name of active ingredient(s): Thiabendazole

Recommended use: Fungicide

Supplier: Agrisource 2000 Limited
45 Kitchener Road
Pukekohe
Phone: 09 237 0422

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

2. HAZARDS IDENTIFICATION

Hazard Classifications: 6.9B, 9.1A

Required identification Details: **WARNING** – KEEP OUT OF THE REACH OF CHILDREN
ECOTOXIC
6.9B: **Toxic - may cause liver damage from repeated oral exposure at high doses.**
9.1A: **Toxic to aquatic organisms with long lasting effects.**

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation Information on hazardous ingredients

Common name	CAS No	%
thiabendazole	148-79-8	50%
Inert ingredients		50%

4. FIRST-AID MEASURES

Description of necessary first aid measures: In case of poisoning by any exposure route contact the National Poisons and Hazardous Chemicals Information Centre, PO Box 913, Dunedin. **Phone 0800 764 766, (0800 POISON).**

First-aid measures

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion:	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.
Skin contact:	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Eye contact:	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Get medical attention.

5. FIRE-FIGHTING MEASURES

HAZCHEM Code:	2X
Extinguishing media :	Fine water spray, dry chemical extiguisher, Carbon dioxide.
Fire Hazard Properties:	Product contains combustible organic components and fire will produce black smoke likely to contain hazardous products of combustion. Exposure is likely to be a hazard to health.
Protection of fire-fighters:	Wear protective clothing and self contained breathing apparatus. Do not breathe smoke or gases.
Other information:	Do not allow run-off from fire fighting to enter drains and/or water courses.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Avoid contact with skin and eyes. Do not inhale spray. Wear long sleeved shirt, long pants, waterproof gloves and safety goggles or face shield. Do not eat, drink or smoke when using. Wash hands and face before meals and after work.
Environmental precautions:	Do NOT allow spilled product or wash solution to enter sewers, drains, dams, creeks or any other waterways.
Methods for cleaning up:	In the case of spillage, contain spilled material. Keep out animals and unprotected persons. Keep material out of streams and sewers. Vacuum or shovel waste into a drum. To decontaminate spill area, tools and equipment, wash with water. Dispose of drummed wastes in accordance with the requirements of Local Authorities

7. HANDLING AND STORAGE

Handling:	When mixing or applying, avoid breathing dust and 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.
Storage:	Store in original container tightly closed and in a locked, dry, cool, well ventilated area, away from feed, seeds and

foodstuffs. Keep out of reach of children. Store in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS8409).

Packaging materials: HDPE Plastic drum.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace Exposure Guidelines

Workplace exposure standards: Thiabendazole 10 mg/m³.

**Exposure Standards outside:
The workplace:** Not required.

Engineering measures

Exposure control measures: Ensure ventilation is adequate, generally natural ventilation is adequate. Facilities should be equipped with an eyewash facility and safety shower.

Personal Protective Equipment

Detail specifications for equipment:

Respiratory system: Where insufficient ventilation, use suitable respiratory protection.

Skin and body: When opening the container, preparing spray and using prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and goggles.

Hands: Elbow-length and PVC gloves

Eyes: Wear chemical goggles or face shield.

General hygiene: Avoid inhaling aerosols and vapours. Avoid contact with eyes and skin. Store work clothes and street clothes separately. Wash hand before breaks and at the end of work. Change contaminated protective clothing. Keep away from food, drinks and tobacco.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Colour: White/beige

Odour: Weak aromatic

pH: 6.0 to 7.0

Boiling Point: Approx. 100°C

Solubility: Soluble in water. Dispersible (20°C)

Specific gravity or density: Approx. 1.168

Flashpoint: Not Flammable.

Viscosity: Approx. 600 sec (DIN 4 flow cup) (25°C)

Explosion properties: Not an explosive

Oxidation properties: Not an oxidizer

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions of use.
Conditions to avoid:	Extreme heat or Cold.
Materials to avoid:	None known
Hazardous decomposition Products:	May include oxides of carbon and nitrogen, hydrogen chloride Hydrogen cyanide.
Hazardous reactions :	None expected.

11. TOXICOLOGICAL INFORMATION

Acute toxicity – Oral :	LD50 > 5,000 mg/kg (rat)
Acute toxicity - Dermal :	LD50 > 2,000 mg/kg (rat)
Acute toxicity – Inhalation	LC50 > 6.84 mg/litre (rat) based on ai
Skin irritation :	Non-irritant (rabbit)
Eye irritation:	Non-irritant (rabbit)
Sensitization :	Non sensitising (guinea pig)
Chronic toxicity	Thiabendazole technical has been extensively tested on laboratory mammals and in test-tube systems. The liver was identified as the target organ. No evidence of neurotoxic, mutagenic, teratogenic or reproductive effects was obtained. No carcinogenic potential was noticed in rats.

12. ECOLOGICAL INFORMATION

Fish toxicity:	LC ⁵⁰ = 1.3 mg/litre ,96 hr (Rainbow trout), Very toxic to aquatic organisms
Daphnia toxicity:	LC ⁵⁰ = 1.9 mg/litre ,48 hr (daphnia magna)
Bee toxicity:	Non toxic to bees/terrestrial invertebrates.
Earthworm toxicity:	LC ⁵⁰ >500mg/litre (14 days)

13. DISPOSAL CONSIDERATIONS

Methods of disposal :	Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, follow the recommendations in NZS 8409. CONTAINER DISPOSAL: Triple rinse container and add rinsate to spray tank. Dispose of cleaned container at your local AGRECOVERY container collection site.
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14. TRANSPORT INFORMATION -International transport regulations

UN number:	3082
Class:	9
Packing Group:	III
Marine Pollutant:	Yes
Proper shipping name :	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,N.O.S. (Contains thiabendazole)
INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA):	Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

15. REGULATORY INFORMATION

ACVM Registered Number:	P8383 (See www.nzfsa.govt.nz/acvm for registration Conditions).
HSNO Approval Code:	HSR000581 (See www.epa.govt.nz for controls).
Approved Handler:	This product must be under the personal control of an approved handler or secured.
Tracking:	Not required.

16. OTHER INFORMATION

Disclaimer EXCLUSION OF LIABILITY: PLEASE READ

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