

SAFETY DATA SHEET

According to HSNO Hazardous Substances (Safety Data Sheets) Notice 2017

Section 1. Identification of the material and the supplier

Product: **T-KOTE**

Chemical Name of Active Ing: Thiabendazole Product Use: Fungicide

Restriction of Use: Refer to Section 15

New Zealand Supplier: Agrisource 2000 Ltd
Address: 45 Kitchener Road

Pukekohe, Auckland

Telephone: +64 9 237 0422

Emergency No: 0800 764 766 (National Poison Centre)

Date of SDS Preparation: 6 July 2023 v2

Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020.

EPA Approval No: HSR000581

Pictograms





Signal Word: Warning

GHS Classification and Category	Hazard Code	Hazard Statement
Specific target organ toxicity - repeated exposure Cat. 2	H373	May cause damage to liver and other organs through prolonged or repeated exposure.
Hazardous to the aquatic environment acute/chronic Cat. 1	H400/H410	Very toxic to aquatic life with long lasting effects.

Prevention Code	Prevention Statement-
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P260	Do not breathe fumes, gas, mist, vapours or spray.
P273	Avoid release to the environment.

Response Code	Response Statement
P101	If medical advice is needed, have product container or label at
	hand.
P314	Get medical advice/attention if you feel unwell.
P391	Collect spillage.

Storage Code	Storage Statement
None allocated	Store in original container tightly closed and in a locked, dry, cool, well-ventilated area, away from feed, seeds and foodstuffs. Avoid temperatures below 0°C and above 35°C.

Disposal Code	Disposal Statement
P501	Product Disposal: Ensure unwanted product is used by another operator strictly in accordance with label directions. Container Disposal: Triple rinse container and add rinsate to spray tank. Dispose of cleaned container at your local AGRECOVERY container collection point. Do not burn. Do not use container for any other purpose.
	Dispose of according to Local Regulations or Authorities

Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Wt%	CAS NUMB-ER.
Thiabendazole	50%	148-79-8
Inert ingredients	50%	Proprietary

Section 4.	First Aid Measures
	1

Routes of Exposure:

If in Eyes Rinse cautiously with water for 15 minutes. Remove contact lenses,

if present and easy to do. Continue rinsing. If eye irritation

persists: Get medical advice.

If on Skin
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.

If Swallowed 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.

If Inhaled Remove person to fresh air. Remove contaminated clothing and

loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Get medical advice if

breathing becomes difficult.

Most important symptoms and effects, both acute and delayed

Symptoms: May cause damage to organs through prolonged or repeated

exposure.

Section 5. Fire Fighting Measures

Hazard Type	Non Flammable
Hazards from products	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.
Suitable Extinguishing	Dry chemical, fine water spray or carbon dioxide.

media	
Precautions for	Wear protective clothing and self-contained breathing apparatus.
firefighters and	Do not breathe smoke or gases.
special protective	Do not allow run-off from firefighting to enter drains and/or water
clothing	courses.
HAZCHEM CODE	3Z

Section 6. Accidental Release Measures

For emergency responders:

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. If enters waterways notify authorities.

Methods and material for containment and cleaning up:

In the case of spillage, contain spilled material. Keep out animals and unprotected persons. 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.

Section 7. Handling and Storage

Precautions for Handling:

- Read carefully and follow all instructions.
- Do not breathe fumes, gas, mist, vapours or spray.
- Avoid release to the environment.
- 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.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Keep out of reach of children.
- Store in original container tightly closed and in a locked, dry, cool, well ventilated area, away from feed, seeds and foodstuffs.
- Store in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS8409).
- Packaging materials: HDPE Plastic Drum

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

TWA STEL Substance ppm mg/m³ ppm mg/m³

None of the components have assigned exposure limits.

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL

is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices APRIL 2022 13^{TH} EDITION.

Engineering Controls

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

Personal Protection Equipment



Eyes	Wear protective goggles.
Hands	Wear PVC elbow-length gloves.
Body	When opening the container, preparing spray and using prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat.
Respiratory	Where insufficient ventilation, use suitable respiratory protection.
General	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.

Section 9 Physical and Chemical Properties

Appearance	Liquid
Colour	White/beige
Odour	Weak aromatic
Odour Threshold	Not available
рН	6.0 - 7.0
Boiling Point	Approx. 100°C
Melting Point	Not available
Freezing Point	Not available
Flash Point	Not available
Flammability	Not flammable
Upper and Lower	Not available
Explosive Limits	
Vapour Pressure	Not available
Vapour Density	Not available
Specific Gravity or	Approx. 1.168
density	
Solubility	Soluble in water. Dispersible (20°C)
Partition Coefficient:	Not available
Auto-ignition	Not available
Temperature	
Decomposition	Not available
Temperature	
Viscosity	Approx. 600 sec (DIN 4 flow cup) (25°C)
Oxidising	Not an oxidiser

Section 10. Stability and Reactivity

Stability of Substance	Stable under normal conditions of use.
Possibility of hazardous reactions	None expected.

Product Name: T-KOTE

Date of SDS: 6 July 2023

Prepared by: Technical Compliance Consultants (NZ) Ltd

Tel: 64 9 475 5240 www.techcomp.co.nz

Conditions to Avoid	Extreme heat or Cold.	
Incompatible Materials	None known.	
Hazardous	May include oxides of carbon and nitrogen, hydrogen	
Decomposition	chloride, Hydrogen cyanide.	
Products		

Section 11 Toxicological Information

Acute Effects:

Swallowed	Not applicable. LD50 (rat) >5000 mg/kg	
Dermal	Not applicable. LD50 (rat) >2000 mg/kg	
Inhalation	Not applicable. LC50 (rat) >6.84 mg/L based on ai	
Eye	Not applicable.	
Skin	Not applicable.	

Chronic Effects:

Carcinogenicity	Not applicable.	
Reproductive	Not applicable.	
Toxicity		
Germ Cell	Not applicable.	
Mutagenicity		
Aspiration	Not applicable.	
STOT/SE	Not applicable.	
STOT/RE	May cause damage to organs through prolonged or repeated	
	exposure.	

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.

Section 12. Ecotoxicological Information

Very toxic to aquatic life with long lasting effects.

Product:		
Persistence and	No data available	
degradability		
Bioaccumulation	No data available	
Mobility in Soil	Propiconazole has low to medium mobility in soil.	
Other adverse effects Propiconazole is stable in water. Propiconazole is		
	persistent in soil, DT50 aerobic soil 40-70days (20°C)	

Acute Toxicity - Fish

LC50 = 1.3 mg/litre ,96 hr (Rainbow trout), Very toxic to aquatic organisms

Acute Toxicity - Daphnia

LC50 = 1.9 mg/litre ,48 hr (daphnia magna)

Earthworm Toxicity

 $LC^{50} > 500$ mg/litre (14 days)

Do not allow to enter waterways.

Section 13. Disposal Considerations

Disposal Method:

Triple rinse container and add rinsate to spray tank. Dispose of cleaned container at your local AGRECOVERY container collection site.



Precautions or methods to avoid: Avoid release to the environment.

Section 14 Transport Information

This product is classified as a Dangerous Good for transport in NZ; NZS 5433:2020



Road, Rail, Sea and Air Transport

UN No	3082	
Class - Primary	9	
Packing Group	III	
Proper Shipping	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S	
Name	(Contains thiabendazole)	
Marine Pollutant	Yes	
Special Provisions	If the product's individual container is below 5L, it can be transported as a non-DG as long as the product packaging is still labelled as per DG requirements and the driver is given safety information in accordance with Chapter 3.4 of the UNRTDG.	

Section 15 Regulatory Information

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval Code: HSR000581

HSW (HS) Regulations 2017	Trigger Quantity			
Signage Trigger Quantities (Schedule 3)	100L			
Emergency Response Plan (Schedule 5)	100L			
Secondary Containment (Schedule 5)	100L			
Tracking (Schedule 26)	Not required			
Certified Handlers	Not required			
HSNO Additional Controls (Restrictions of use)				
None known.				
ACVM Act and Regulations				
See <u>www.foodsafety.govt.nz</u> for registration	P8383			
Conditions				

Glossary

Cat Category

EC₅₀ Median effective concentration.
EEL Environmental Exposure Limit.
EPA Environmental Protection Authority

HSNO Hazardous Substances and New Organisms.

HSW Health and Safety at Work.

LC₅₀ Lethal concentration that will kill 50% of the test organisms

inhaling or ingesting it.

LD₅₀ Lethal dose to kill 50% of test animals/organisms.

LEL Lower explosive level.

OSHA American Occupational Safety and Health Administration.

TEL Tolerable Exposure Limit.

TLV Threshold Limit Value-an exposure limit set by responsible

authority.

UEL Upper Explosive Level WES Workplace Exposure Limit

References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017

2. Workplace Exposure Standards and Biological Exposure Indices April 2022 edition.

3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).

4. Transport of Dangerous goods on land NZS 5433:2020

5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

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Please contact the New Zealand distributor, if further information is required.

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