

SAFETY DATA SHEET

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

Section 1. Identification of the material and the supplier

Product: **Tribunil (Methabenzthiazuron 70%)**
 Product Use: Selective herbicide for weed control in wheat, peas, onions, leeks, garlic, potatoes and asparagus.
 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: 17 March 2023

Section 2. Hazards Identification

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

EPA Approval No: HSR000536

Pictograms



Signal Word: **Warning**

GHS Classification and Category	Hazard Code	Hazard Statement
Eye irritation Cat. 2	H319	Causes serious eye irritation.
Hazardous to the aquatic environment acute/chronic Cat. 1	H400/410	Very toxic to aquatic life with long lasting effects.
Hazardous to soil organisms	H421	Hazardous to soil organisms.

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective clothing as detailed in Section 8.

Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P338	Remove contact lenses, if present and easy to do. Continue rinsing.
P391	Collect spillage.
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/attention.

Storage Code	Storage Statement
None allocated	

Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations or Authorities

Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Wt%	CAS NUMBER.
Methabenzthiazuron	70%	18691-97-9
Naphtalenesulfonic acid, methyl-,polymer with formaldehyde, sodium salt	2.0	81065-51-2
Non hazardous ingredients	28%	-

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
If on Skin	If skin contact occurs remove contaminated clothing and wash affected areas thoroughly with soap and water.
If Swallowed	Rinse mouth. 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. Keep at rest until fully recovered. Apply artificial respiration if not breathing. Get medical advice if breathing becomes difficult.

Most important symptoms and effects, both acute and delayed

Symptoms: Causes serious eye irritation.

Section 5. Fire Fighting Measures

Hazard Type	This product is non-flammable.
Hazards from decomposition products	In a fire, formation of hydrogen cyanide, carbon monoxide, sulphur dioxide and nitrogen oxides can be expected.
Suitable Extinguishing media	Water spray, foam, dry powder, carbon dioxide, sand.
Precautions for firefighters and special protective clothing	When fighting a major fire wear an air-supplied respirator. Wear protective equipment.
HAZCHEM CODE	2Z

Section 6. Accidental Release Measures

Ensure suitable personal protection during removal of spillages. This means wearing eye protection, chemically resistant gloves, boots and overalls.

Do NOT allow spilled product or wash solution to enter sewers, drains, dams, creeks or any other waterways.

Keep all bystanders away. Wear goggles, half face-piece respirator with combined dust and vapour cartridge, full length clothing and PVC gloves. Contaminated material must be disposed of in accordance with all local authority requirements.

- For quantities up to 50kg of product bury in a secure approved landfill site.
- For quantities greater than 50kg seek advice from the manufacturer (use emergency contact number) before attempting disposal. Contain in a secure location until disposal method is established.

Decontaminate the spill area with detergent and water and rinse with the smallest volume of water practicable. Dispose as per Section 13.

Section 7. Handling and Storage

Precautions for Handling:

- Read carefully and follow all instructions.
- Wash hands thoroughly after handling and before eating, drinking or smoking.
- Avoid release to the environment.
- Wear protective clothing as detailed in Section 8.
- Avoid contact with skin and eyes and inhalation of concentrate or spray mist.
- When using, do not eat, drink or smoke.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Store in a cool, dry, well ventilated place and protect from sunlight.
- Keep from contact with fertilizers, insecticides, fungicides and seeds.
- Keep out of reach of children.
- Store in original container, tightly closed, away from foodstuffs.
- This product may cause dust explosion, if water soluble bag is broken.
- Fine dust particles can form explosive mixtures with air.

Section 8. Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³
Kaolin (as inhalable dust) (as respirable dust)	-	10	-	-
	-	2	-	-
Silica, quartz	-	-	-	0.2

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 13TH EDITION.

Engineering Controls

Use in well ventilated areas.

Personal Protection Equipment



Eyes	Wear chemical goggles or face shield.
Skin	Wear suitable protective gloves (e.g. Polyvinyl chloride – PVC). After contamination with product change the gloves immediately. Wear suitable protective clothing.
Respiratory	Where insufficient ventilation, use suitable respiratory protection.
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.

Section 9. Physical and Chemical Properties

Appearance	Powder
Colour	Beige
Odour	Slight characteristic odour
Odour Threshold	Not available
pH	9.0 – 10.5 (1% in water)
Boiling Point	Not available
Melting /Freezing Point	Not available
Flash Point	Not available
Flammability	Not flammable
Upper and Lower Explosive Limits	Not available
Vapour Pressure	5.9 x 10 ⁻⁶ Pa at 20°C (methabenzthiazuron)
Vapour Density	Not available
Bulk Density	340/292 mL/100g (loose/packed)
Solubility	Disperses in water
Octanol/water partition coefficient:	Log Pow: = 2.64 The value relates to the active methabenzthiazuron.
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Kinematic Viscosity	Not available
Octanol/Water Particle Coefficient	Not available

Section 10. Stability and Reactivity

Stability of Substance	Stable under normal conditions of use.
Possibility of hazardous reactions	None expected.
Conditions to Avoid	Moisture, heat.
Incompatible Materials	Strong acids and alkalis, strong oxidizing agents.
Hazardous Decomposition Products	No hazardous reactions.

Section 11. Toxicological Information

Acute Effects:

Swallowed	Not applicable. LD50: >2500mg/kg
Dermal	Not applicable. LD50: >5000mg/kg
Inhalation	Not applicable. LC50: 5.12mg/L (dust) (4h)
Eye	Causes serious eye irritation.
Skin	Not applicable.

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive Toxicity	Not applicable.
Germ Cell Mutagenicity	Not applicable.
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Not applicable.

Section 12. Ecotoxicological Information

Very toxic to aquatic life with long lasting effects.
Hazardous to soil organisms.

Product:	
Persistence and degradability	No data available
Bioaccumulation	No data available
Mobility in Soil	No data available
Other adverse effects	No data available

Data for technical active ingredient:

Aquatic:

LC50: 29mg/L; golden orfe (*Leuciscus melanotus*) (96h)
LC50: 15.9mg/L; Rainbow trout (*Onchorhynchus mykiss*) (96h)
LC50: 30.6mg/L; Water flea (*Daphnia magna*) (48h)

Algae:

Growth rate: IC50: 0.119mg/L green algae (*Scenedesmus subspicatus*) (96h)

Do not allow to enter waterways.

Section 13. Disposal Considerations

Disposal Method:

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.

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 5433:2012



Road, Rail, Sea and Air Transport

UN No	3077
Class - Primary	9
Packing Group	III
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Methabenzthiazuron)
Marine Pollutant	Yes
Special Provisions	If the product's individual container is below 5L/kg, 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 hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval No: HSR000536

HSW (HS) Regulations 2017	Trigger Quantity
Signage Trigger Quantities (Schedule 3)	100kg
Emergency Response Plan (Schedule 5)	100kg
Secondary Containment (Schedule 5)	Not required
Tracking (Schedule 26)	Not required
Certified Handlers	Not required
Location Certificate	Not required
Restrictions of use	Refer to EPA website for full control details www.epa.govt.co.nz
ACVM Registration Number (See www.foodsafety.govt.nz for registration Conditions).	P1343

Glossary

EC ₅₀	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC ₅₀	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD ₅₀	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 Agrisource 2000 Ltd, if further information is required.

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