

SAFETY DATA SHEET

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

Section 1. Identification of the material and the supplier

Product: **Gesagard**
 Product Use: Selective herbicide for Pre & post-emergence weed control in carrots, parsnips, onions, peas and potatoes
 Pack Size: 10L
 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: 11 August 2025

Section 2. Hazards Identification

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

EPA Approval No: HSR000558

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 organs through prolonged or repeated exposure.
Hazardous to the aquatic environment acute Cat. 1	H400	Very toxic to aquatic life.
Hazardous to the aquatic environment chronic Cat. 1	H410	Very toxic to aquatic life with long lasting effects.
Hazardous to soil organisms.	H423	Hazardous to soil organisms
Specific target organ toxicity – repeated exposure Cat. 2	H373	May cause damage to organs through prolonged or repeated exposure.

HSNO Specific Precautions		
HPC	-	Do not apply onto or into water
HPC	-	Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.

Prevention Code	Prevention Statement
P103	Read carefully and follow all instructions.
P260	Do not breathe 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
	Store in original container tightly closed and in a locked, dry, cool, well-ventilated area, avoiding temperatures below -5° and above 30°C, away from feed, seeds and foodstuffs. Keep out of reach of children.

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

Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Wt%	CAS NUMBER.
Prometryn	40-45	7287-19-6
Ethylene glycol	3-5	107-21-1
Other non-hazardous ingredients	To Balance	NA

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	Take off contaminated clothing and wash before reuse. Wash skin with plenty of water. If skin irritation or rash occurs: Get medical advice/attention.
If Swallowed	Rinse mouth with water. If swallowed, do NOT induce vomiting. Never give anything by the mouth to an unconscious patient. Contact the National Poisons Centre on 0800 POISON (0800 764 766) or a doctor for advice.
If Inhaled	Remove to fresh air and keep at rest in a position comfortable for breathing. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Contact the National Poisons Centre on 0800 POISON (0800 764 766) or a doctor for advice.

Most important symptoms and effects, both acute and delayed

Symptoms:

Swallowed: Not applicable.

Inhaled: Not applicable

Eyes: Not applicable

Skin: Not applicable

Chronic: May cause damage to organs through prolonged or repeated exposure.

Notes to Doctor: Treat symptomatically. No specific antidote.

Section 5. Fire Fighting Measures

Hazard Type	This product is non-flammable.
Hazards from decomposition products	If involved in a fire, may evolve toxic/harmful substances, e.g. carbon oxides and other unspecified compounds.
Suitable Extinguishing media	Water fog, carbon dioxide or dry chemical as appropriate to surrounding materials.
Precautions for firefighters and special protective clothing	Full protective clothing and self-contained breathing apparatus.
HAZCHEM CODE	3Z

Section 6. Accidental Release Measures

For emergency responders:

Wear protective equipment as detailed in Section 8. Avoid inhalation of vapours mist or spray.

Clear area of all unprotected personnel.

Environmental precautions:

Prevent from entering drains, waterways or sewers. If spill does enter waterways immediately contact local authority.

Methods and material for containment and cleaning up:

Contain spillage. Collect spillage for reuse or disposal. For small liquid spills absorb spillage with sand, sawdust or other inert material, and place in a sealable labelled waste container. Dispose of waste safely in an approved landfill or hazardous waste facility as per Section 13.

Section 7. Handling and Storage

Precautions for Handling:

- Read carefully and follow all instructions.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Do not breathe mist, vapours or spray.
- Wash hands thoroughly after handling.
- Use only outdoors or in a well-ventilated area.
- Contaminated work clothing should not be allowed out of the workplace.
- Avoid release to the environment [if this is not the intended use].
- Wear protective clothing [as detailed in SDS Section 8].
- Avoid contact with skin and eyes and inhalation of vapours or spray mist.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Store in original container tightly closed and in a locked, dry, cool, well-ventilated area, avoiding temperatures below -5° and above 30°C, away from feed, seeds and foodstuffs.
- Keep out of reach of children.
- Store in accordance with NZ 8409 Management of Agrichemicals.
- Stores containing more than 100 litres are subject to signage and secondary containment and require an emergency response plan.
- Shelf Life: When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³
Ethylene glycol (vapour and mist) [107-21-1]		Ceiling 50		127

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 NOV 2023 14TH EDITION.

Engineering Controls

Handle outdoors or in a well-ventilated area. Use local exhaust ventilation, or other engineering controls as appropriate to conditions.

Personal Protection Equipment



Eyes	Wear Safety goggles.
Skin	Wear waterproof gloves, cotton overalls buttoned to the neck and wrist and boots.
Respiratory	When opening the container, preparing to measure or applying, and when contact is likely: wear respiratory protection (mask with cartridge for particulates).
General Hygiene	Do not eat, drink or smoke while using this product. Remove protective clothing and wash hands and face before meals and after work. Wash protective clothing daily after work.

Section 9 Physical and Chemical Properties

Appearance	Suspension Liquid
Colour	Off -white
Odour	Characteristic
Odour Threshold	Not available
pH	6.00 – 8.00 (1% Solution)
Boiling Point	>100°C
Melting /Freezing Point	Not available
Flash Point	Not available
Flammability	Not flammable
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Vapour Density	Not available
Relative Density	c.a 1.12
Solubility	Forms suspension in water.
Octanol/water partition coefficient:	Not available
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 storage conditions in original container for at least two years.
Possibility of hazardous reactions	None expected.
Conditions to Avoid	Protect from frost.
Incompatible Materials	Oxidizing agents, strong acids or strong alkalis.
Hazardous Decomposition Products	If involved in a fire, may evolve toxic/harmful substances, e.g. carbon oxides and other unspecified compounds.

Section 11 Toxicological Information**Acute Effects:**

Swallowed	Not applicable. Oral, rat LD50 >2000 mg/kg bw (OECD 423)
Dermal	Not applicable.
Inhalation	Not applicable.
Eye	Not applicable.
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	May cause damage to organs through repeated or prolonged exposure.

Individual component information:**Acute Toxicity:**

Chemical Name	Oral – LD50	Dermal – LD50	Inhalation – LC50
Prometryn (active)	LD50 = 1802 mg/kg bw	-	-
Ethylene glycol	LD50=1670 mg/kg bw		

Section 12. Ecotoxicological Information

Very toxic to aquatic life with long lasting effects.

Product:	
Persistence and degradability	The product has not been tested.
Bioaccumulation	The product has not been tested.
Mobility in Soil	The product has not been tested.
Other adverse effects	The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. The product has not been tested.

Ecotoxicological information:

Prometryn (active)

Classification key study: Bioaccumulation
BCF (aquatic species): 270 dimensionless

Bio accumulative: No
An estimated BCF of 270 [HSDB]

Biodegradation in water: not biodegradable

Fish

ACUTE

SPECIES: Rainbow trout *Oncorhynchus mykiss* LC50 2.9 mg/l, 96 hr

CHRONIC

SPECIES: Fathead minnow

ENDPOINT: NOEC: VALUE: 800 ppb (= 0.8 mg/l)

Aquatic Invertebrates: Acute: Mysid *Mysidopsis bahia* : LC50 = 1.7 mg/L 96hr

SPECIES: Water flea *Daphnia magna*; 21 day: NOEL: 1.0 ppm (= 1.0 mg/l)

Freshwater Algae and Cyanobacteria: EC50 for freshwater algae: 0.001 mg/L

Freshwater diatom (*Navicula pelliculosa*): 5 day: EC50=1 ppb (= 0.001 mg/l)

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 or use the Agrecovery® Chemical Recovery service or other approved facility.

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.

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 Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains 45% Prometryn)
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: HSR100383

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
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).	P10302

Section 16 Other Information**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 NOV 2023 14th 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

This document has been prepared by TCC (NZ) Ltd and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, TCC (NZ) Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

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Please contact the Agrisource 2000 Ltd, if further information is required.

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