

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

PRODUCT NAME: RAINETHEET

OTHER NAME: Suspension concentrate containing 500 g/L ethofumesate

USE: Pre and post emergent herbicide

SUPPLIER NAME: AGPRO NZ Ltd

SUPPLIER ADDRESS: 10 Polaris Place, East Tamaki, Auckland 2013
PO Box 58-963, Botany, Auckland 2163

SUPPLIER CONTACT: 09 273 3456 or freephone 0508 536 536
www.agpro.co.nz

POISON INFORMATION: National Poison Centre, 0800 POISON (0800 764 766) 24 hours

CHEMICAL EMERGENCY: 0800 CHEMCALL (0800 243 622) 24 hours

2. HAZARDS IDENTIFICATION

NEW ZEALAND: Hazardous according to the Hazardous Substances (Hazard Classification) Notice 2020 of the HSNO Act, 1996

APPROVAL NUMBER: HSR000826

HAZARD CLASSIFICATIONS: Hazardous to soil organisms, Hazardous to the aquatic environment chronic Category 2.

PICTOGRAMS:



SIGNAL WORD: -

HAZARD STATEMENTS: Toxic to aquatic life and with long lasting effects.
Very toxic to the soil environment.

PREVENTION: Read label before use.
Avoid release to the environment.

RESPONSE: Collect spillage.

STORAGE: -

DISPOSAL: Dispose of unwanted product and used packaging in compliance with local regulations.

TRANSPORT: This product is a Dangerous Good Class 9 for Transport.

3. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS No	% w/w
Ethofumesate	26225-79-6	43 - 45 *
Other ingredients	Trade secret	balance

* equivalent to 500 g/L ethofumesate

4. FIRST - AID MEASURES

Contact the National Poisons Centre on 0800 POISON (0800 764 766) or a doctor for advice. Have product label or SDS at hand.

Ingestion: If swallowed do NOT induce vomiting. Rinse mouth with water. Contact the National Poisons Centre on 0800 POISON (0800 764 766) or a doctor for advice.

Inhalation: Remove patient to fresh air. Keep in position comfortable for breathing.
If breathing is shallow or has stopped ensure airway is clear, apply resuscitation and seek medical assistance immediately.

Skin contact: Remove contaminated clothing and wash affected area thoroughly with plenty of soap and water. If irritation persists, get medical advice.

Eye contact: If in eyes flush with plenty of water holding eyelids open if necessary. Remove contact lenses if present, after a few minutes,

then continue flushing with water. Get medical advice if irritation persists.

Advice to Doctor No specific antidote. Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flammability Non-flammable.
 Hazardous Combustion Products If involved in a fire, may evolve toxic/harmful compounds.
 Extinguishing media Water fog or spray, carbon dioxide or dry chemical as appropriate to surrounding materials.
 Protective Equipment Full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Spills and Disposal: Wear personal protective equipment. Exclude non-essential people from the area. Contain spillage. Collect spillage in labeled containers than can be closed, 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.

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

7. HANDLING AND STORAGE

Handling: Keep out of reach of children. Read label before use. Keep container tightly closed when not in use. Use only according to label. Wear personal protective equipment. Avoid contact with skin and eyes and inhalation of vapours or spray mist. Use outdoors or in well-ventilated area. Do not apply directly into or onto water. Take all reasonable steps to ensure the product does not cause any significant adverse effects to the environment beyond the application area. Written record of use required if more than 3 kg applied within 24 hours in a place where the product is likely to enter air or water and leave the application area.

Storage: Signage, emergency response plan and secondary containment required when more than 1000 L on site. Store in original container tightly closed and in a secure, dry, cool area away from foodstuffs, fertilizer and seed. For guidance refer to current version of NZS 8409 Management of Agrichemicals and Health and Safety at Work (Hazardous Substances) Regulations 2017.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits: Worksafe NZ (12th edition, November 2021)

<i>Ingredient</i>	<i>Exposure</i>	<i>Form</i>	<i>Ceiling</i>
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Protective Equipment: When opening the container, preparing to measure, load or when applying: wear safety goggles, waterproof gloves, cotton overalls buttoned to the neck and wrist, and boots.

The following Standards provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: **AS/NZS 4501**, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

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

Hygiene Precautions: 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 and equipment daily after work.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Beige to brown liquid
Odour:	Slight
Odour threshold:	No information available
pH	5.0 - 8.0
Melting point/freezing point:	Not available
Initial boiling point/range:	>100 °C
Flashpoint:	Non-flammable
Flammability (solid, gas):	Not applicable
Upper/lower flammability limits:	Not applicable
Vapour pressure:	Not applicable
Vapour density:	Not applicable
Relative density:	c.a. 1.16
Solubilities:	Forms suspension in water
Partition coefficient: n-octanol/water:	Not available
Auto-ignition temperature:	No information available
Decomposition temperature:	Not available
Kinematic viscosity:	Not available
Particle characteristics:	Not applicable

10. STABILITY AND REACTIVITY

Stability:	Stable under normal storage conditions in original container for at least two years.
Conditions to avoid:	Keep out of direct sunlight and protect from frost.
Incompatible substances or materials:	Not specified.
Hazardous polymerization:	Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:	Not classified for acutely toxic effects if swallowed, in contact with skin or if inhaled.
Aspiration hazard:	Not classified.
Respiratory irritation:	Not classified.
Skin corrosion/irritation:	Not classified.
Serious eye damage/irritation:	Not classified.
Respiratory or skin sensitization:	Not classified.
Germ cell mutagenicity:	Not classified.
Carcinogenicity:	Not classified.
Reproductive toxicity:	Not classified.
Specific organ toxicity:	Not classified. Possible liver toxicant.
Narcotic effects:	No components identified with narcotic effects.
Toxicological information:	<u>Ethofumesate (active)</u> Oral, rat LD ₅₀ >2000 mg/kg bw Dermal, rat LD ₅₀ 2000 mg/kg bw Inhalation, rat LC ₅₀ (4 hr) 0.16 mg/L

12. ECOLOGICAL INFORMATION

Ecotoxicity:	Product is classified as being toxic to aquatic life and with long-lasting effects. Also very toxic in the soil environment.
Ecotoxicological information:	<u>Ethofumesate (active)</u> Fish; <i>Cyprinus carpio</i> LC ₅₀ (96 h) 11 g/L Crustacean: <i>Daphnia magna</i> EC ₅₀ (48 h) 13.52 mg/L Alga; <i>Raphidocelis subcapitata</i> EC ₅₀ (72 hr) growth 3.9 mg/L
Persistence and degradability:	DT ₅₀ (typical) 21.6 days
Potential to be bioaccumulative:	Not expected to be bioaccumulative.
Mobility in soil:	Ethofumesate has minimal solubility in water (50 mg/L). Expected to be absorbed on soil.
Other adverse effects:	No information available.

13. DISPOSAL CONSIDERATIONS

Product disposal:	Dispose of product only by using according to label or dispose of at an approved landfill.
Container Disposal:	Ensure container is completely empty. Triple rinse with water and use rinsings to spray mix. Dispose of empty clean container to recycler for agricultural chemicals, otherwise crush and bury in an approved landfill. Do not use container for any other purpose.

14. TRANSPORT INFORMATION

UN Number:	3082
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (CONTAINS ETHOFUMESATE 50%)
DG Class:	9
Packing Group:	III
Marine Pollutant:	Yes
HAZCHEM	3Z

15. REGULATORY INFORMATION

New Zealand	Registered pursuant to the ACVM Act 1997, No. P9436 See www.foodsafety.govt.nz for registration conditions Approved pursuant to the HSNO Act 1996, Approval Code HSR000826 See www.epa.govt.nz for Controls and www.worksafe.govt.nz .
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Qualifications	Qualified Handler.
Tracking:	No
Safety Data Sheet:	Any quantity
Restricted to workplace only:	No
Quantity that must be secured when unattended:	-
Quantity for secondary containment and emergency response plan:	1000 L
Quantity for signage:	1000 L
Quantity for Location certificate	-
Records of use (3 kg or more applied to area within 24 hours)	Yes
Quantity that requires management in accordance with HSW HS Regulations	-

16. OTHER INFORMATION

Version: 2.1

Issue Date: 18 June 2023

Reason for Issue: Added distributor's contact details

Replaces: 26th November 2021

References:

Supplier Safety Data Sheets

NZ EPA Approved hazardous substances databases.

Worksafe NZ Workplace Exposure Standards and Biological Exposure Indices

Abbreviations:

ACVM	Agricultural Chemicals and Veterinary Medicines Group
ADI	Acceptable Daily Intakes
BCF	Bioconcentration factor
CAS Number	Chemical Abstracts Service Registry Number
CCID	Chemical Classification Identification Database
EPA	Environmental Protection Authority
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
HSNO	Hazardous Substances and New Organisms
HS	Health and Safety
HSR	Hazardous Substances Register
IARC	International Agency for Research on Cancer
LC ₅₀	Median Lethal Concentration
LD ₅₀	Median Lethal Dose (50% population)
SDS	Safety Data Sheet
NOAEL	No Observable Adverse Effect Level
NOEL	No Observable Effect Level
NOS	Not otherwise specified
STEL	Short Term Exposure Limit
TWA	Time-Weighted Average
UN Number	United Nations Number
WES-STEL	Workplace exposure standards – Short-term exposure limit
WES-TWA	Workplace exposure standards – Time-weighted average

The data given here is based on current knowledge and experience. The purpose of this safety data sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

End of Safety Data Sheet