

## SAFETY DATA SHEET

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

### Section 1. Identification of the material and the supplier

Product: **Extracta Herbicides Ethofumesate 500**  
Substance: Suspension concentrate of Ethofumesate  
Chemical Name: IUPAC Name: (±)-2-ethoxy-2,3-dihydro-3,3-dimethylbenzofuran-5-yl methanesulfonate

Product Use: Agricultural Herbicide  
Restriction of Use: Refer to Section 15

**New Zealand Supplier:** **Wholesale Seeds Limited**  
Address: 5 Bryant Street, Ashburton, New Zealand

Telephone No: 03 307 9260

**Emergency No:** **0800 CHEMCALL (0800243 622)**

Manufacturer: **Danken New Zealand Ltd**  
Address: P.O. Box 16194  
Hornby  
Christchurch, 8441

Telephone: 0800 326 536

Date of SDS Preparation: 21 May 2024

### Section 2. Hazards Identification

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

**EPA Approval No: HSR000449**

#### 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 chronic Cat. 2	H411	Toxic to aquatic life with long lasting effects.
Hazardous to soil organisms.	H422	Hazardous to soil organisms

Prevention Code	Prevention Statement
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
P314	Get medical advice/attention if you feel unwell.
P391	Collect spillage.

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	%	CAS NUMBER.
Ethofumesate	40-45	26225-79-6
Ethylene Glycol	1-5	107-21-1
Nonhazardous	To bal	

### Section 4. First Aid Measures

Routes of Exposure:

If in Eyes Rinse cautiously with water for several minutes. Seek medical assistance if needed.

If on Skin Take off contaminated clothin. Wash off skin immediately with soap and plenty of water. If skin irritation occurs: Get medical advice/attention.

If Swallowed Wash out mouth thoroughly with water. Never give anything by mouth to an unconscious person. Call a POISON CENTER or doctor/physician if you feel unwell.

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

**Notes to Doctor:** There is no specific antidote available. Treat symptomatically.

### Section 5. Fire Fighting Measures

<b>Hazard Type</b>	Non Flammable
<b>Hazards from products</b>	Combustion or thermal decomposition may evolve toxic and irritant vapors. Exposure to decomposition products may be a hazard to health.
<b>Suitable Extinguishing media</b>	Extinguish small fires with carbon dioxide, dry powder, or alcohol-resistant foam. Water spray can be used for larger fires or cooling of unaffected stock, but avoid the accumulation of polluted run-off from the site. Remove container from fire area if possible. Contain fire control water for later disposal. Use a recommended extinguishing agent for the type of surrounding fire. Avoid inhaling hazardous vapors. Keep upwind.

<b>Precautions for firefighters and special protective clothing</b>	Wear protective clothing and self-contained breathing apparatus. Do not allow run-off from firefighting to enter drains or water courses. Cool closed containers exposed to fire with water spray
<b>HAZCHEM CODE</b>	<b>3Z</b>

## Section 6. Accidental Release Measures

Wear personal protective equipment detailed in Section 8. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing vapours and mist.

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Absorb with absorbent material. Keep in suitable, closed containers for disposal. Dispose of in compliance with local and/or national regulations or as per Section 13.

## 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.
- Provide adequate ventilation.
- After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.
- Do not apply directly to areas where surface water is present, or to intertidal areas below the mean high water mark.
- Water used to clean equipment must be disposed of correctly to avoid contamination

### Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Keep out of reach of children.
- Store in its original labeled container in shaded, well-ventilated area, away from heat, sparks and other sources of ignition.

## Section 8 Exposure Controls / Personal Protection

### WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
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 APRIL 2022 13<sup>TH</sup> EDITION.

### Engineering Controls

Ensure adequate ventilation.

### Personal Protection Equipment



<b>Eyes</b>	Protective glasses or goggles should be worn when this product is being used. Failure to protect your eyes may cause them harm. Emergency eye wash facilities are also recommended in an area close to where this product is being used.
<b>Hands</b>	The information at hand indicates that this product is not harmful and that normally no special skin protection is necessary. However, we suggest that you routinely avoid contact with all chemical products and that you wear suitable gloves (preferably elbow-length) when handling this product.
<b>Skin</b>	Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
<b>Respiratory</b>	Not required where spray mist is not inhaled. Otherwise, respirator (organic vapour and particulate matter) is required.

## Section 9 Physical and Chemical Properties

<b>Appearance</b>	Liquid
<b>Colour</b>	Pale Beige
<b>Odour</b>	Odourless
<b>Odour Threshold</b>	Not available
<b>pH</b>	3.5 – 5.5 (1% dispersion)
<b>Boiling Point</b>	>100°C
<b>Melting Point</b>	<0°C
<b>Freezing Point</b>	Not available
<b>Flash Point</b>	Not available
<b>Flammability</b>	Not flammable
<b>Upper and Lower Explosive Limits</b>	Not available
<b>Vapour Pressure</b>	Not available
<b>Vapour Density</b>	Not available
<b>Relative Density</b>	1.12 g/mL (approx.)
<b>Water Solubility</b>	Dispersible
<b>Partition Coefficient:</b>	Not available
<b>Auto-ignition Temperature</b>	Not available
<b>Decomposition Temperature</b>	Not available
<b>Kinematic Viscosity</b>	Not available
<b>Particle Characteristics</b>	Not available

## Section 10. Stability and Reactivity

<b>Stability of Substance</b>	This product is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	Not available
<b>Conditions to Avoid</b>	Moisture, high temperature, direct sunlight.
<b>Incompatible Materials</b>	Strong basic and acids.
<b>Hazardous Decomposition Products</b>	No data available.

## Section 11 Toxicological Information

### Acute Effects:

<b>Swallowed</b>	Not triggered as hazardous. Rats and mice: LD50 >5000mg/kg
<b>Dermal</b>	Not triggered as hazardous. Rats: LD50>2000mg/kg
<b>Inhalation</b>	Not triggered as hazardous. Rats: LC50 (4 h) for male rats >3.97 mg/L (air).

<b>Eye</b>	Not triggered as hazardous.
<b>Skin</b>	Not triggered as hazardous.

### Chronic Effects:

<b>Carcinogenicity</b>	Not triggered as hazardous.
<b>Reproductive Toxicity</b>	Not triggered as hazardous.
<b>Teratogenic Effects</b>	Not triggered as hazardous.
<b>Germ Cell Mutagenicity</b>	Not triggered as hazardous.
<b>Aspiration</b>	Not triggered as hazardous.
<b>STOT/SE</b>	Not triggered as hazardous.
<b>STOT/RE</b>	May cause damage to organs through prolonged or repeated exposure.

## Section 12. Ecotoxicological Information

Hazardous to soil organisms.

<b>Product:</b>	
<b>Persistence and degradability</b>	Biodegradable. DT50 (soil) 22 days (typical)
<b>Bioaccumulation</b>	Octanol-water partition coefficient LogP = 2.7 (moderate)
<b>Mobility in Soil</b>	Soil organic carbon water partitioning coefficient. No data available

### Eco Toxicity:

Route	Species	Duration	Value LC50/EC50
Fish	Rainbow trout	96 hr	11.91 – 20.2
	Bluegill Sunfish	96 hr	12.37 – 21.2
	Mirror Carp	96 hr	10.92 mg/L
Daphnia	Daphnia	48 hr	13.52 – 22.0 mg/L
Algae	Algae	-	3.9 mg/l
Bees	Bees	-	>50µg/bee
Worms		-	134 mg/kg soil
Birds	Oral - Mallard Ducks	-	>3552 mg/kg
	Bobwhite quail	-	>8743 mg/kg
	Dietary - Mallard Ducks	8 days	>1082 mg/kg
	Bobwhite quail	-	>839 mg/kg b.w. daily
Other beneficial spp	Aleochara bilineata	-	>1250
	Poecilus cupreus and	-	
	Chrysoperla carnea	-	>2000 g/ha

Do not allow to enter drains or water courses.

## Section 13. Disposal Considerations

### Disposal Method:

Triple or preferably pressure rinse containers before disposal. Add rinsing to spray tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt. Dispose of washings, contaminated materials, used absorbents and other waste materials as directed by local regulations.

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

## Section 14 Transport Information



**Road, Rail, Sea and Air Transport**

<b>UN No</b>	3082
<b>Class - Primary</b>	9
<b>Packing Group</b>	III
<b>Proper Shipping Name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S (Ethofumesate)
<b>Marine Pollutant</b>	Yes
<b>Special Provisions</b>	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 classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval Code: HSR000449

<b>HSW (HS) Regulations 2017 and EPA Notices</b>	<b>Trigger Quantity</b>
Certified Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	1000L
Emergency Response Plan	1000L
Secondary Containment	1000L
Restriction of Use:	Use as for intended use.

**Section 16 Other Information**

**Glossary**

Cat	Category
EC <sub>50</sub>	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC <sub>50</sub>	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD <sub>50</sub>	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

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

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