

## SAFETY DATA SHEET

### EAGLE®

#### SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND COMPANY

##### 1.1 Identifiers

Product name: **EAGLE®**

##### 1.2 Recommended use of the chemical and restrictions on use

Product Use: A herbicide for barley grass control in pasture and weed control in turf ryegrass, fodder beet and red beet.

##### 1.3 Supplier contact details:

Company name: Grosafe Chemicals Limited  
Address: 20 Jean Batten Drive Mt Maunganui, 3116  
Telephone: 0800 220 002  
Email: [info@grosafe.co.nz](mailto:info@grosafe.co.nz)

Emergency telephone number: 0800 CHEMCALL (0800 243 622)

#### SECTION 2: HAZARD IDENTIFICATION

##### 2.1 Classification of the Hazardous Chemical

Hazardous substance according to Hazardous Substances and New Organisms (HSNO) Act 1996  
Classifications according to the Hazardous Substances (Hazard Classification) Notice 2020.

**Approval Number:** HSR000826

**Classifications:** Hazardous to soil organisms; Hazardous to the aquatic environment chronic Category 2.

##### 2.2 Label elements:

###### Pictograms:



**Signal Word:** No signal word

###### Hazard statements:

H411 Toxic to aquatic life with long lasting effects  
Hazardous to soil organisms.

###### Precautionary statements:

###### Prevention

P103 Read label before use.

###### Response

P391 Collect spillage

###### Storage

- -

###### Disposal

P501 Dispose of contents/container in accordance with local regulations.

**Additional labelling statements required under Hazardous Substances (Labelling) Notice 2017**

Do not apply directly into or onto water.

Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS	% w/w
Ethofumesate	26225-79-6	50
Other ingredients	Trade secret	balance

### SECTION 4: FIRST AID MEASURES

#### 4.1 Description of first aid measures

**General Information:**

For advice call the National Poison Centre, telephone 0800 POISON [0800 764 766]. Have container or label at hand.

**IF SWALLOWED:** Contact a POISON CENTRE or doctor for advice.

**IF ON SKIN:** Remove contaminated clothing and wash skin with plenty of soap and water. Get medical advice if irritation develops.

**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.

**IF INHALED:** Remove person to fresh air and keep at rest in a position comfortable for breathing. Call the NATIONAL POISONS CENTRE or doctor for advice.

#### 4.2 Medical attention and special treatment

Treat symptomatically.

### SECTION 5: FIRE FIGHTING MEASURES

#### 5.1 Suitable extinguishing media

Suitable: Dry chemical extinguisher, foam, carbon dioxide or waterspray.

Unsuitable: Direct jet of water.

#### 5.2 Specific hazards arising from the chemical

Dangerous gases are evolved in the event of a fire., In the event of fire the following may be released:, Carbon dioxide (CO<sub>2</sub>), Carbon monoxide (CO), Sulphur oxides.

#### 5.3 Special protective equipment and precautions for fire fighters

In the event of fire and/or explosion do not breathe fumes. Wear self-contained breathing apparatus and protective suit.

#### 5.4 Further Information

Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat. Whenever possible, contain fire-fighting water by diking area with sand or earth. Do not allow run-off from fire-fighting to enter drains or water courses.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Keep people away from and upwind of spill/leak. Avoid contact with spilled product or contaminated surfaces. Use personal protective equipment. When dealing with a spillage do not eat, drink or smoke.

### 6.2 Environmental precautions

Prevent spillage from entering drains or waterways. If contamination of drains, streams, watercourses, etc. is unavoidable, warn the local water authority.

### 6.3 Methods and materials for containment and cleaning up

Contain spilled material. Recover large liquid spills into labelled drums that can be sealed for safe disposal. For small spillage, absorb with inert material (e.g.vermiculate, soil), recover into labelled container that can be sealed and sent for disposal to landfill. Clean area with water and detergent, observing environmental regulations.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Read the label before use. Do not handle until all safety precautions have been read and understood. Avoid contact with skin and eyes and inhalation of spray mist. Wear personal protective equipment. Wash hands and exposed skin after handling. Do not use spray equipment contaminated with this product for any other purpose unless first thoroughly cleaned with a suitable cleaning detergent. Avoid unintended release into the environment.

### 7.2 Conditions for safe storage

Store in the closed original packaging, out of reach of children and in a dry, cool, well-ventilated area away from direct sunlight. Keep away from food, drink and animal feedstuffs.

## SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

### 8.1 Control parameters – exposure standards, biological monitoring

Components	CAS-No	Control parameters
Ethofumesate	26225-79-6	none set

### 8.2 Engineering controls

Use outdoors to ensure adequate ventilation.

### 8.3 Personal protective equipment (PPE)

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**.

**Eye/Face Protection:** Wear chemical goggles or face shield when mixing or applying product.

**Skin Protection:** Wear impervious gloves (e.g. nitrile, butyl), coat, trousers, waterproof hat. Ensure all skin areas are covered.

**Respirator:** Where product is being sprayed and a mist could be produced, a respirator should be worn. It should be fitted with a cartridge suitable for agricultural chemicals.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Beige to brown
Odour	Very slight odour
Odour threshold	No data
pH	5 – 8

Melting Point	150°C
Freezing Point	No data
Boiling Point /Range	No data
Flash point	No data
Flammability (solid, gas)	No data
Upper/lower flammability or explosive limits	No data
Vapour Pressure	No data
Vapour density	No data
Specific gravity	No data
Solubility	No data
Partition Co-efficient n-octanol/water	No data
Auto-ignition temperature	No data
Decomposition temperature	No data
Viscosity	760mPas
Particle Characteristics	No data

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Chemical stability and reactivity

This product is unlikely to react or decompose under normal storage conditions.

### 10.3 Conditions to Avoid

Avoid storage in direct sunlight and storage at temperatures >20°C.

### 10.4 Incompatible materials

Explosives (class 1), oxidising gases, oxidising liquids, oxidising solids, organic peroxides

### 10.5 Hazardous decomposition products

No decomposition products expected under normal conditions of use.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Health hazard information

The product is not classified for health hazards according to an assessment of information on product.

### 11.2 Toxicological information

Acute toxicity:	Acute Oral, LD <sub>50</sub> greater than 2000mg/kg Acute Dermal, rat LD <sub>50</sub> greater than 4000mg/kg Acute Inhalation LC <sub>50</sub> 4.29 mg/l
Aspiration hazard:	Product contains no components with aspiration hazard.
Respiratory irritation:	Non-irritant
Skin corrosion/irritation	Non-irritant
Serious eye damage/irritation	Non-irritant
Respiratory or skin sensitisation	Not a sensitiser
Germ cell mutagenicity:	No ingredients in product classified as presumed or suspected mutagens.
Carcinogenicity	No ingredients in product classified as presumed or suspected carcinogens.
Reproductive toxicity	Not suspected of damaging fertility or the unborn child.
Specific target organ toxicity – single/repeated exposure	Doesn't cause damage to organs through prolonged or repeated exposure.
Narcotic effects	Product contains no ingredient identified as causing narcotic effects.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Ecotoxicity

This product is classified as toxic to aquatic life and hazardous to soil organisms.

Ethofumesate	Soil DT <sub>50</sub> 10–122 d days
	Birds: Acute: oral LD <sub>50</sub> for mallard ducks >2000 mg/kg, Chronic: short term dietary NOEL > 5200 mg/kg feed
	Fish: Acute: LC <sub>50</sub> (96 h) for <i>Cyprinus carpio</i> 10.92 Chronic: NOEC 21 day <i>Danio rerio</i> 0.156 mg/L
	Crustacea: Acute: EC <sub>50</sub> <i>Daphnia magna</i> (48 hour) 13.52 gm/L Chronic: NOEC <i>Daphnia magna</i> (21 day) 0.25 mg/L
	Alga: Acute EC <sub>50</sub> (growth) 3.9 mg/l.
	Bees: LC <sub>50</sub> (contact and oral) >50 µg/bee (honeybee).
	Earthworms: Acute LC <sub>50</sub> 134 mg/kg soil. Chronic: NOEC reproduction >4.42 mg/kg

### 12.2 Environmental Fate

**Persistence and biodegradability:** Non-persistent to moderately persistent, DT<sub>50</sub> (typical) 21.6; DT<sub>50</sub> (field) 37.8

**Potential to Bioaccumulate:** Moderate.

**Mobility in soil:** Moderately mobile in soils.

**Other adverse effects:** High leaching potential (calculated).

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Product Disposal

Dispose of this product only by using according to the label, or through a Chemical Recovery service or other licensed hazardous waste disposal facility.

### 13.2 Container Disposal

Triple rinse empty container and add rinsate to spray tank. Submit clean empty container to an Agrecovery® depot for recycling. Alternatively, puncture and dispose of at an approved landfill.

## SECTION 14: TRANSPORT INFORMATION

### Road and Rail Transport:

Classified as Dangerous Good Class 9 according to NZS5433 Transport of Dangerous Goods on Land 2020.

### Marine Transport (IMO/IMDG):

Classified as Dangerous Good Class 9 by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

### Air Transport (ICAO/IATA):

Classified as Dangerous Good Class 9 by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulation for transport by air.

<b>UN Number:</b>	3082
<b>UN Proper Shipping Name:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains ETHOFUMESATE 50%)
<b>Transport hazard class(es)</b>	9

<b>Packing Group:</b>	III
<b>HAZCHEM:</b>	2X
<b>Special Precautions for User:</b>	-
<b>IMDG Marine pollutant:</b>	YES
<b>Transport in Bulk:</b>	-

## SECTION 15: REGULATORY INFORMATION

### 15.1 HSNO Act 1996

Hazardous substance according to Hazardous Substances (Hazard Classification) Notice 2020.

**Approved substance number:** HSR000826

**Hazardous classifications:** Hazardous to soil organisms, Hazardous to the aquatic environment chronic Category 2.

**Controls:** Refer to HS Notices ([www.epa.govt.nz](http://www.epa.govt.nz)) and HSW HS Regulations ([www.worksafe.govt.nz](http://www.worksafe.govt.nz))

Certified Handler required:	No
Location certificate:	Not required
Fire extinguishers:	-
Signage:	1000 L
Emergency response plan:	1000 L
Secondary containment:	1000 L
Tracking:	Not required
Qualifications:	A person mixing or loading agrichemicals in preparation for application must be suitably qualified, refer to Schedule 10 of the Hazardous Substances (Hazardous Property Controls) Notice 2017
Record keeping:	A person who applies the substance must retain the following written records for 12 months from the date of transfer of the substance. Refer 13 (3) of the Hazardous Substances (Hazardous Property Controls) Notice 2017 for record keeping requirements.
Tolerable Exposure Level (TEL)	None set
Environmental Exposure Level (EEL)	None set
International Agreements	Not applicable

### 15.2 ACVM Act 1997

**Registration number:** P10175.

Refer to [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) for registration conditions.

## SECTION 16: OTHER INFORMATION

### 16.1 Date of preparation or last revision of SDS

<b>SDS issued</b>	05 August 2024
<b>SDS supersedes</b>	N/A
<b>Reason issued</b>	Initial SDS

## 16.2 ABBREVIATIONS

<b>ADE</b>	Acceptable Daily Exposure
<b>ADI</b>	Acceptable Daily Intakes
<b>CAS number</b>	Chemical Abstracts Service Registry Number
<b>CCID</b>	Chemical Classification Identification Database
<b>EPA</b>	Environmental Protection Authority
<b>ErC<sub>50</sub></b>	Half maximal Effective Concentration
<b>GHS</b>	Globally Harmonized System of Classification and Labelling of Chemicals
<b>Hazchem Code</b>	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
<b>HSNO</b>	Hazardous Substances and New Organisms
<b>HS</b>	Health and Safety
<b>HSR</b>	Hazardous Substances Register
<b>IARC</b>	International Agency for Research on Cancer
<b>LC<sub>50</sub></b>	Median Lethal Concentration
<b>LD<sub>50</sub></b>	Median Lethal Dose
<b>SDS</b>	Safety Data Sheets
<b>NOAEL</b>	No Observable Adverse Effect Level
<b>NOEL</b>	No Observable Effect Level
<b>NOS</b>	Not otherwise specified
<b>PDE</b>	Potential Daily Exposure
<b>STEL</b>	Short Term Exposure Limit
<b>SWA</b>	Safety Work Australia
<b>TEL</b>	Tolerable Exposure Level
<b>TWA</b>	Time-Weighted Average
<b>UN Number</b>	United Nations Number

## 16.3 REFERENCES

EPA CCID and Approved Substance databases  
 PPDB Pesticide Properties DataBase <https://sitem.herts.ac.uk>

## 16.4 OTHER

Eagle® is a trademark of Grosafe Chemicals Ltd

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End of Safety Data Sheet