

# SAFETY DATA SHEET

# **TriBeet™**

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

1.1 Identifiers

Product name: TriBeet™

Suspension concentrate containing phenmedipham 50 g/L,

Other Name(s): ethofumisate 50 g/L and metamitron 150 g/L

1.2 Recommended use of the chemical and restrictions on use

Product Use: Herbicide for use in fodder beet, red beet and sugar 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

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 HSNO Substance Approval: HSR101136

Classifications: Acute inhalation toxicity Category 4; Specific target organ toxicity - repeated exposure Category 2; Hazardous to the aquatic environment chronic Category 2; Hazardous to soil organisms.

## 2.2 Label elements:

## Pictograms:







Signal Word: WARNING

**Hazard statements:** 

H332 Harmful if inhaled.

H373 May cause damage to organs through prolonged or repeated exposure

H411 Toxic to aquatic life with long lasting effects

#### Additional labelling statements required under Hazardous Substances (Labelling Notice 2017

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

Do not apply directly into or onto water.



### **Precautionary statements:**

Prevention

P102 Keep out of reach of children.

P103 Read label before use.

P260 Avoid breathing mist/vapour/spray.
P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in well-ventilated area.

Response

P101 If medical advice is needed, have product container or label at hand.

P304 + P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for

breathing.

P312 Call a POISON CENTRE or doctor if you feel unwell.

P391 Collect spillage.

Storage

Disposal

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

## **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

| Ingredients        | CAS          | Proportion<br>% w/w |
|--------------------|--------------|---------------------|
| Metamitron         | 41394-05-2   | 13.9                |
| Phenmedipham       | 13684-63-4   | 4.6                 |
| Ethofumisate       | 26225-79-6   | 4.6                 |
| Other ingredients* | Trade secret | balance             |

This is a commercial product whose exact ratio of components may vary slightly.

## **SECTION 4: FIRST AID MEASURES**

### 4.1 Description of first aid measures

## **General Information:**

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

IF SWALLOWED: Rinse mouth. Get medical advice if you feel unwell.

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

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice if irritation persists.

**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 if you feel unwell.

## 4.2 Symptoms caused by exposure

Unlikely to cause harmful effects under normal conditions of handling and use.

## 4.3 Medical attention and special treatment

Treat symptomatically.

<sup>\*</sup>Do not affect the hazardous classifications of the product.



## **SECTION 5: FIRE FIGHTING MEASURES**

#### 5.1 Suitable extinguishing media

Use water spray or fog or foam as appropriate for surrounding materials. Contain extinguishing media to prevent runoff into drains, sewers, waterways.

## 5.2 Specific hazards arising from the chemical

Fire decomposition products may be toxic/harmful and/or irritating if inhaled.

Evacuate people to safe area upwind of fire.

## 5.3 Special protective equipment and precautions for fire fighters

Wear full personal protective equipment including with self-contained breathing apparatus (SCBA).

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

## 6.1 Personal precautions, protective equipment and emergency procedures

Have this SDS available. In the event of a spill, wear appropriate protective clothing, eye and skin protection. Wash contaminated personal protective equipment and clothing, and dry before re-use.

### 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. For small liquid spills, use absorbent material and recover into labelled containers that can be sealed for safe disposal. For large liquid spills, recover liquid into labelled containers then absorb remaining liquid and transfer to labelled containers for disposal. Clean area with water and detergent.

If spillage of this product is near trees or valuable plants, remove the top 50mm of soil after the spillage is cleaned up. For further information contact the supplier for advice.

Dispose of contaminated materials to approved landfill in accordance with local 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.

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.

Use only outdoors or in well ventilated area.

Avoid inhalation of mist/vapours/spray. Wear protective equipment such as coat/trouser (overalls), boots, gloves and eye protection. Do not eat, drink or smoke when using this product. Wash hands and exposed skin with soap and water after handling and before rest or meal breaks.

Do not use spray equipment contaminated with this product for any other purpose unless first thoroughly cleaned with a suitable cleaning detergent.

#### 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 and out of direct sunlight. Keep away from food, drink and animal feedstuffs.

Storage of 1000L or more of this product requires an emergency response plan, secondary containment and signage.



## **SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION**

## 8.1 Control parameters - exposure standards, biological monitoring

| Ingredient       | TWA (mg/m³)   | STEL (mg/m³) |
|------------------|---|--------------|
| Propylene glycol | 474 (vapour and particulates);<br>10 (particulates only)<br>(150 ppm) |              |

## 8.2 Engineering controls

Use only outdoors or in a well-ventilated area..

## 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 splash goggles if eye contact is possible.

**Skin Protection:** Wear impervious chemical resistant gloves (e.g. nitrile, butyl), coveralls, socks and chemical resistant footwear. For overhead spray exposure, wear chemical resistant headgear. Ensure all skin areas are covered.

**Respirator:** Use outdoors in a well-ventilated area or use local exhaust ventilation. 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 particulates.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance White/cream liquid suspension

Odour Aromatic
Odour threshold Not known

pH 4.0 – 7.0 (as 1% aqueous)

Melting/Freezing Point No data available

Boiling Point /Range <100 °C

Flash point Non flammable
Flammability (solid, gas) Not applicable
Upper/lower flammability or No data available

explosive limits

Vapour Pressure No data available Vapour density No data available

Specific gravity ca 1.08

Solubility Forms emulsion in water

Partition Co-efficient n- No data available

octanol/water

Auto-ignition temperature No data available
Decomposition temperature No data available
Viscosity Not applicable
Particle characteristics No data available



## **SECTION 10: STABILITY AND REACTIVITY**

## 10.1 Reactivity

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

### 10.2 Chemical stability

Stable under normal temperatures and pressure for storage and use.

#### 10.3 Conditions to Avoid

Contact with oxidising agents.

## 10.4 Incompatible materials and possible hazardous reactions

Incompatible with explosives, oxidising agents, organic peroxides.

## 10.5 Hazardous decomposition products

Fire Decomposition: Carbon dioxide, carbon monoxide, smoke and other unspecified compounds.

#### 10.6 Polymerisation

Not known to occur.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

#### 11.1 Health hazard information

The product is classified for health hazards according to an assessment of information on product.

### 11.2 Toxicological information

Acute toxicity: Classified as harmful if inhaled.

Aspiration hazard: Product is not classified with aspiration hazard.

Respiratory irritation:

Skin corrosion/irritation

Serious eye damage/irritation

Respiratory or skin sensitisation

Not classified.

Not classified.

Not classified.

Germ cell mutagenicity: No ingredients in product identified as presumed or suspected

mutagens.

Carcinogenicity Not classified

Reproductive toxicity

No ingredients in product identified as suspected of damaging

fertility or the unborn child.

Specific target organ toxicity -

single/repeated exposure

May cause damage to organs through prolonged or repeated

exposure at high doses.

Narcotic effects Product contains no ingredient identified as causing narcotic

effects.

11.3 Toxicological data:

Product Not available

Metamitron Oral, dog and mouse LD<sub>50</sub> 650 mg/kg b.w

Dermal, rat LD<sub>50</sub> 1000 mg/kg b.w.

Inhalation, mouse and hamster LC<sub>50</sub> (4 hr) 0.206 mg/L

Phenmedipham Oral, dog and guinea pig LD<sub>50</sub> 4000 mg/kg b.w

Dermal, rabbit LD<sub>50</sub> 1000 mg/kg b.w.

Ethofumisate Oral, rat LD<sub>50</sub> >2000 mg/kg b.w

Dermal, rat LD<sub>50</sub> >2000 mg/kg b.w. Inhalation, rat LC<sub>50</sub> (4 hr) > 0.16 mg/L



## **SECTION 12: ECOLOGICAL INFORMATION**

#### 12.1 Ecotoxicity

This product is classified as being toxic to aquatic life with long lasting effects and hazardous to soil organisms.

### 12.2 Environmental Fate

Breakdown in soil and groundwater: Not rapidly biodegradable.

Metamitron  $DT_{50} > 30 \text{ days}$ Phenmedipham  $DT_{50} > 25 \text{ days}$ 

Ethofumisate DT<sub>50</sub> 10 – 122 days (laboratory); 84 -407 days (field)

Bioaccumulation: Not expected to bioaccumulative.

Metamitron BCF = 75Phenmedipham BCF = 165Ethofumisate BCF = 144

Partition coefficient (octanol/water): Not available.

Soil mobility: Low 12.3 Ecotoxicity data:

Metamitron Fish; Oncorhynchus mykiss LC<sub>50</sub> (96 hr) >190 mg/L

Crustacea; Daphnia magna EC<sub>50</sub> (48 hr) 5.7 mg/L

Algae: Scenedemus subspicatus EC<sub>50</sub> (72 hr) growth 0.22

mg/L

Pseudokirchneriella subcapitata EC<sub>50</sub> (72 hr) 0.4 mg/L

Bird; Japanese quail LC<sub>50</sub> 1875 -1930 mg/kg

Phenmedipham Fish; Oncorhynchus mykiss LC<sub>50</sub> (96 hr) 1.71 mg/L

Crustacea; Daphnia magna EC<sub>50</sub> (48 hr) 0.41 mg/L

Algae: Selenastrum capricornutum EC<sub>50</sub> (72 hr) 0.192 mg/L Bird: chicken LD50 >2500 mg/kg; mallard duch LD50 >2100

mg/kg

Ethofumisate Fish; Cyprinus carpio LC<sub>50</sub> (96 hr) 11.0 mg/L

Crustacea; Daphnia magna EC<sub>50</sub> (48 hr) 13.52 – 22.0 mg/L Bird: Mallard duck LD50 >3552 mg/kg; Bobwhite quail LD50

>8743 mg/kg

## **SECTION 13: DISPOSAL CONSIDERATIONS**

## 13.1 Product Disposal

Refer to product label. If possible, dispose of by using according to the label. Otherwise dispose of to a chemical recovery service or to an approved landfill in accordance with local regulations.

## 13.2 Container Disposal

Refer to product label. Do not use packaging for storage of other products. Empty packaging should be disposed of to an approved recycler or crushed and sent to approved landfill.

# **SECTION 14: TRANSPORT INFORMAITON**

## **Road and Rail Transport:**

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

UN Number: 3082

UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (CONTAINS METAMITRON 15%, PHENMEDIPHAM 5%,

ETHOFUMISATE 5%)

Transport hazard class(es) 9
Packing Group: III
HAZCHEM: 3Z
Special Precautions for User: IMDG Marine pollutant: YES
Transport in Bulk: -

## **SECTION 15: REGULATORY INFORMATION**

### 15.1 HSNO Act 1996

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

Approved substance number: HSR101136

Hazardous classifications: Acute inhalation toxicity Category 4; Specific target organ toxicity

- repeated exposure Category 2; Hazardous to the aquatic environment chronic Category 2; Hazardous to soil organisms.

HSW (HS) Regulations 2017 Trigger Quantity

Certified Handler Not required
Location Certificate Not required
Signage Trigger Quantity 1000 L

(Schedule 3)

**Emergency Response Plan** 

(Schedule 5)

1000 L

**Secondary Containment** 

(Schedule 16)

1000 L

Tracking (Schedule 26) Not required

Controls: Refer to control on <a href="www.epa.govt.nz">www.epa.govt.nz</a> for complete wording for

variation to Controls.

77A The following limits are set for toxicologically relevant impurities in the active ingredient ethofumesate used to manufacture this substance: Ethyl methane sulfonate: 0.1 mg/kg maximum Isobutyl methane sulfonate: 0.1 mg/kg maximum.

77A This substance must be applied by ground-based methods only.

Do not apply onto or into water.

**Record Keeping** If 3 kg or more of the substance is applied within 24 hours, in a

place where the substance is likely to enter air or water and leave the application area, a PCBU with management or control of the substance must ensure that a written record is kept of each application of the substance. Refer HPC Section 48 (3) for

record requirements.

**Tolerable Exposure Level** 

(TEL)

None set



**Environmental Exposure** 

Level (EEL)

None set

International Agreements Not applicable

Additional information: Refer to HS Notices (www.epa.govt.nz) and HSW HS

Regulations (www.worksafe.govt.nz)

15.2 ACVM Act 1997

Registration number: P9424 TriBeet™

Refer to <a href="https://www.foodsafety.govt.nz">www.foodsafety.govt.nz</a> for registration conditions.

## **SECTION 16: OTHER INFORMATION**

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

SDS issued 16 Oct 2023
SDS supersedes 26th June 2020
Reason issued Update to GHS

## **16.2 ABREVIATIONS**

ADI Acceptable Daily Intakes

**CAS number** Chemical Abstracts Service Registry Number CCID Chemical Classification Identification Database

EPA Environmental Protection Authority
ErC<sub>50</sub> Half maximal Effective Concentration

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**<sub>50</sub> Median Lethal Concentration

**LD**<sub>50</sub> Median Lethal Dose **SDS** Safety Data Sheets

NOAEL No Observable Adverse Effect Level

NOEL
NO Observable Effect Level
NOS
Not otherwise specified
STEL
Short Term Exposure Limit
SWA
Safety Work Australia
TWA
Time-Weighted Average
UN Number
United Nations Number

## **16.3 REFERENCES**

EPA CCID and Approved Substance databases PPDB- Pesticides Properties DataBase

#### **16.4 OTHER**

TriBeet ™ is a trademark of Grosafe Chemicals Ltd

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