



## SAFETY DATA SHEET

# TERMINATE<sup>®</sup>

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

#### 1.1 Identifiers

Product name: TERMINATE<sup>®</sup>  
Contains 600g/litre triclopyr as the butoxy ethyl ester in the form of an emulsifiable concentrate.

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

Product Use: Grass friendly herbicide for the control of gorse, broom, blackberry and other brush weeds. Also for broadleaf weed control in turf

#### 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: 3.1D, 6.1D, 6.1E, 6.3B, 6.4A, 6.5B, 6.9B, 9.1A, 9.2A, 9.3C.

#### 2.2 Label elements:

##### Pictograms:



**Signal Word:** WARNING

##### Hazard statements:

- H227 Combustible liquid.
- H302 Harmful if swallowed.
- H312 Harmful in contact with skin
- H316 Causes mild skin irritation.
- H317 May cause an allergic skin reaction.
- H320 Causes eye irritation

- H332 Harmful if inhaled.
- H371 May cause organ damage from repeated exposure at high doses.
- H400 Very toxic to aquatic life
- H421 Very toxic in the soil environment
- H433 Harmful to terrestrial vertebrates.

**Precautionary statements:**

*Prevention*

- P102 Keep out of reach of children.
- P103 Read label before use.
- P210 Keep away from flames and hot surfaces.
- P261 Do not breathe in vapours/mist/spray.
- P264 Wash hands and any exposed skin thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P272 Contaminated work clothing should not be allowed out of the work place.
- P273 Avoid release to the environment.
- P280 Wear protective gloves, protective clothing and eye/face protection.

*Response*

- P301 + P312 IF SWALLOWED: Call a Poison Centre or doctor if you feel unwell
- P330 Rinse mouth.
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
- P332 + P313 If skin irritation occurs: Get medical advice.
- P333 + P313 If skin irritation persists, get medical advice.
- P312 & P314 Call a POISON CENTRE or doctor if you feel unwell.
- P363 Wash contaminated clothing before re-use.
- P304 + P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
- P337+P313 If eye irritation persists, get medical advice/attention.
- P391 Collect spillage.

*Storage*

- P403 + P233 Store in a well-ventilated area. Keep cool.
- P405 Store locked up.

*Disposal*

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

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

Ingredients	CAS	Proportion
Triclopyr butoxyethyl ester	64700-56-7	60%
Other non-hazardous ingredients	-	Balance up to 100%

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 Poison Centre, telephone 0800 POISON [0800 764 766] for advice. Have label or Safety Data Sheet at hand

**Ingestion:** If swallowed, do NOT induce vomiting. Rinse mouth with water and then give glass or two of water to drink. Get medical advice if person feels unwell.

**Skin Contact:** Remove contaminated clothing and wash affected area with soap and water. If irritation occurs then get medical advice.

**Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists then get medical attention.

**Inhalation:** Remove person to fresh air and keep at rest in a position comfortable for breathing. Immediately call a Poison Centre or doctor.

### 4.2 Symptoms caused by exposure

None specified.

### 4.3 Medical attention and special treatment

Treat symptomatically.

## SECTION 5: FIRE FIGHTING MEASURES

### 5.1 Suitable extinguishing media

Dry chemical, water spray (fog), foam or carbon dioxide.

### 5.2 Specific hazards arising from the chemical

Noxious fumes – hydrogen, chloride and others.

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

Wear full personal protective equipment including with self-contained breathing apparatus (SCBA). Contain run-off to prevent run-off to sewers and waterways.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

In the event of an accidental spill, wear full protective clothing including respiratory, eye and face 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, recover into labelled drums that can be sealed for safe disposal. If spray mixture is spilled, absorb and collect in drums. Deal with all spillages immediately.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Read the label before use. Use only outdoors or in well-ventilated environment. Keep away from open flames and hot surfaces. Avoid contact with skin and eyes. Avoid inhalation of vapour, spray mists. Wear coat/trouser (overalls), boots, waterproof hat, respirator, gloves and eye protection when handling product. Wash hands and exposed skin after handling. Do not eat, drink or smoke when using. Contaminated work clothing should not leave the work place. 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 locked up in the closed original packaging out of reach of children and in a dry, cool, well-ventilated area. Keep away from food, drink and animals feeding stuffs.

## SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

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

None specified.

### 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 protective glasses or goggles when mixing or applying product.

**Skin Protection:** Wear impervious gloves, 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 type G cartridge, suitable for agricultural chemicals.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear brown liquid
Odour	Not specific information
Odour threshold	No data available
pH	Not specified
Melting/Freezing Point	No data available
Boiling Point /Range	No data available
Flash point	95°C
Flammability (solid, gas)	Flammable
Vapour Pressure	No data available
Vapour density	No data available
Specific density	1.2 g/cm <sup>3</sup> at 20°C
Solubility	Emulsifies in water
Partition Co-efficient n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

Not available.

### 10.2 Chemical stability

Stable under ambient conditions for a period of at least 2 years. Unlikely to spontaneously decompose.

### 10.3 Conditions to Avoid

Store in the closed original container in a dry, cool, well-ventilated area and out of direct sunlight.

### 10.4 Incompatible materials and possible hazardous reactions

Avoid strong oxidising agents.

### 10.5 Hazardous decomposition products

**Fire Decomposition:** Noxious fumes – hydrogen, chloride and others.

**Polymerisation:** This product will not undergo polymerisation reactions.

## 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

Not specified

### 11.3 Toxicological data:

Triclopyr butoxyethyl ester	Oral LD50 (rat) - >2000 mg/kg (male and female)
	Dermal LD50 (rabbit) – > 2000 mg/kg (male and female)
	Inhalation LD50 (Rat) – No adverse effects are anticipated from single exposure to vapour
	Eye irritation (Rabbit) – Slight irritation
	Skin irritation (Rabbit) – No irritation
	Skin sensitization (Rat) – Mild sensitisation potential

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Ecotoxicity

This product is classified as being very toxic to aquatic life, very toxic to the soil environment, and harmful to terrestrial vertebrates.

### 12.2 Environmental Fate

#### **Breakdown in soil and groundwater:**

Biodegradable in soil and water.

**Bioaccumulation:** Will not accumulate in the soil or water.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Product Disposal

Use the product for its intended purpose according to label. Otherwise dispose of unused product to waste management facility for pesticides or to landfill.

### 13.2 Container Disposal

Do not use packaging for storage of other products. Triple rinse container and add residue to mixture. If circumstances, especially wind direction, permit the empty containers may be burned, otherwise bury in a suitable land fill.

## SECTION 14: TRANSPORT INFORMATION

### **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 69 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  
**Transport hazard class(es)** 9  
**Packing Group:** III  
**Special Precautions for User:**  
**IMDG Marine pollutant:** Yes  
**Transport in Bulk:** Not available

## SECTION 15: REGULATORY INFORMATION

### 15.1 HSNO Act 1996

Hazardous substance according to Hazardous Regulations

**Approved substance number:** HSR100917

**Hazardous classifications:** 3.1D, 6.1D, 6.1E, 6.3B, 6.4A, 6.5B, 6.9B, 9.1A, 9.2A, 9.3C.

**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))

### 15.2 ACVM Act 1997

**Registration number:** P9568

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

**SDS issued** 05 September

**SDS supersedes** Not applicable

**Reason issued** New product

### 16.2 ABBREVIATIONS

**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  
**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<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

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**TWA** Time-Weighted Average  
**UN Number** United Nations Number

### **16.3 REFERENCES**

Manufacturer information  
EPA CCID and Approved Substance databases  
University of Hertfordshire Pesticides Properties Database

### **16.4 OTHER**

TERMINATE<sup>®</sup> is a registered trademark of Grosafe Chemicals Ltd

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End of Safety Data Sheet