

**SAFETY DATA SHEET**

**HYDROCOTYLE KILLER**

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

**1.1 Identifiers**

Product name: **HYDROCOTYLE KILLER**  
Other Name(s): Selective Herbicide containing 120 g/L triclopyr (as triclopyr – butoxyethyl ester) in the form of an emulsifiable concentrate.

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

Product Use: Selective Herbicide for the control of hydrocotyle, onehunga weed, creeping oxalis and other broadleaf weeds in grass lawns.

**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 PHONE 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 and the Hazardous Substances (Hazard Classification) Notice 2020.

**HSNO Substance Approval:** HSR000574

**Hazard Classifications:** Acute oral toxicity Category 4; Acute inhalation toxicity Category 4; Serious Eye Irritation Category 2; Skin Sensitisation category 1; Specific Target Organ Toxicity (repeated exposure) Category 2; Hazardous to the aquatic environment acute Category 1; Hazardous to the aquatic environment chronic Category 1; Hazardous to soil organisms; Hazardous to Terrestrial Vertebrates.

**2.2 Label elements:**

**Pictograms:**



**Signal Word: WARNING**

**Hazard statements:**

H302

Harmful if swallowed



H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H332	Harmful if inhaled
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
	Hazardous to soil organisms
	Hazardous to terrestrial vertebrates

**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.”

**Precautionary statements:**

*Prevention*

P102	Keep out of reach of children
P103	Read label before use.
P260	Do not breathe mist, vapours or spray
P264	Watch exposed parts of the body thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P271	Use only outdoors or in well-ventilated areas.
P272	Contaminated clothing should not be allowed out of the workplace
P280	Wear protective gloves/face protection

*Response*

P101	If medical advice is needed, have the product container or label at hand.
P301 + P312	IF SWALLOWED: Call a Poison Centre or doctor if you feel unwell
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present, and easy to do. Continue rinsing.
P312	Call a POISON CENTRE or doctor if you feel unwell.
P314	Get medical advice/attention if you feel unwell.
P330	Rinse mouth
P333 + P313	If skin irritation or rash occurs: Get medical advice / attention
P337+ P313	
P362 + P364	If eye irritation persists: Get medical advice / attention
P391	Take off contaminated clothing and wash it before reuse.
	Collect spillage

*Disposal*

P501

Dispose of contents/container in accordance with local regulations.

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

Ingredients	CAS #	Proportion % w/w
Triclopyr - butoxyethyl ester	64700-56-7	10 – 30%
Diethylene Glycol monoethyl ether	111-76-2	10 - 30%
Sodium dodecyl benzene sulfonate	25155-30-0	<10%
Ethylene glycol	107-21-1	<10%
Diethylene Glycol	111-46-6	30-60%

**SECTION 4: FIRST AID MEASURES****4.1 Description of first aid measures****General Information:**

For advice, or if you feel unwell, contact the NATIONAL POISONS CENTRE, 0800 POISON (0800 764 766). Have product container or label at hand.

**IF SWALLOWED:** Rinse mouth. Call the a POISON CENTRE or doctor if you feel unwell.

**IF ON SKIN:** Wash with plenty of soap and water. Take of contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice / attention.

**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 / attention.

**IF INHALED:** Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE or doctor if you feel unwell.

**4.2 Symptoms caused by exposure**

Treat symptomatically

**4.3 Medical attention and special treatment**

Treat symptomatically.

**SECTION 5: FIRE FIGHTING MEASURES****5.1 Suitable extinguishing media**

Use water spray or fog, foam, CO<sub>2</sub> or dry chemical as appropriate for surrounding materials. Contain extinguishing media to prevent runoff into drains, sewers, waterways.

Addition of water may cause excessive foaming.

**5.2 Specific hazards arising from the chemical**

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

Vapours may be toxic – use of self-contained breathing apparatus may be required.

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 and eye/hand protection. Wash contaminated personal protective equipment and clothing and dry before re-use. Spills may be slippery and should be cleaned up immediately.

**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 spills, use inert absorbent material such as sand, soil, vermiculite and recover into labelled drums that can be sealed for safe disposal. For large spills, recover into labelled containers then absorb remaining gel and transfer to drums for disposal. Clean area with water and detergent.

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 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. When applying product do not inhale of vapours. Wear protective equipment. Wash hands and exposed skin with soap and water after handling and before rest or meal breaks. Do not eat, drink or smoke when using. Keep containers away from foodstuffs, seeds, fertilisers and other pesticides.

**7.2 Conditions for safe storage**

Store securely 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 sources of heat, food, drink and animal feedstuffs. Storage of 100 L 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**

(Worksafe New Zealand – Workplace exposure standards and biological exposure indices)

Ingredient	WES-TWA	WES-STEL	WES Ceiling
2-Butoxyethanol (Butyl glycol ether) CAS: 11176-2	25ppm; 121mg/m <sup>3</sup>		
Ethylene glycol CAS: 107-21-1			50ppm (Vapour & mist); 127mg/m <sup>3</sup>

Diethylene Glycol CAS: 111-46-6	10ppm; 44mg/m <sup>3</sup> (ifv)	40ppm; 176mg/m <sup>3</sup> (ifv)	
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### 8.2 Engineering controls

Recommended to use outdoors or in well-ventilated areas.

### 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 or face shield if eye contact with product is possible.

**Skin Protection:** Wear impervious chemical resistant gloves (e.g. nitrile, butyl), coveralls, socks and chemical resistant footwear. 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 an inhalable mist could be produced, a respirator should be worn.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid (clear brown)
Odour	Sweet odour
Odour threshold	Not known
pH	No data available
Melting/Freezing Point	No data available
Boiling Point /Range	No data available
Flash point	Not flammable
Flammability (solid, gas)	Not applicable
Vapour Pressure	No data available
Vapour density	No data available
Specific gravity/bulk density	1.2 g/ml (approx.)
Solubility	Soluble in water
Partition Co-efficient n-octanol/water	No data available
Auto-ignition temperature	Not applicable
Decomposition temperature	No data available
Viscosity	No data available
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

Avoid storage in direct sunlight, exposure to heat or contact with incompatible materials.

#### 10.4 Incompatible materials and possible hazardous reactions

Incompatible with explosives, oxidising agents, organic peroxides, strong acids, and strong alkalis.

#### 10.5 Hazardous decomposition products

**Fire Decomposition:** Smoke, carbon oxides 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 oral toxicity:	Classified as an acute oral toxicant (Acute Toxicity (oral) Category 4).
Acute dermal toxicity:	Not classified.
Acute inhalation toxicity:	Classified as an acute inhalation toxicant (Acute Toxicity (inhalation) Category 4).
Skin corrosion/irritation	Not classified.
Serious eye damage/irritation	Classified as an eye irritant (Serious eye irritation Category 2)
Respiratory or skin sensitisation:	Classified as a respiratory / skin sensitiser (Skin sensitisation Category 1)
Germ cell mutagenicity:	No ingredients identified as presumed mutagens.
Carcinogenicity	No ingredients identified as presumed carcinogens.
Reproductive toxicity	No ingredients identified / suspected of damaging fertility or the unborn child.
Specific target organ toxicity – single/repeated exposure	Classified for adverse effects to organs or systems from repeated exposure (STOT repeated exposure Category 2).
Narcotic effects	No ingredient identified as causing narcotic effects.

### 11.3 Toxicological data:

Triclopyr - butoxyethyl ester (CCID)	LD <sub>50</sub> 803mg/kg in rats (oral route). STOT (kidney) oral noted
Diethylene Glycol monoethyl ether (CCID)	LD <sub>50</sub> 1414mg/kg in guinea pig (oral route). LC <sub>50</sub> 2.2mg/kg in rats (inhalation route). LD <sub>50</sub> 210-2000mg/kg in guinea pig (dermal route).
Sodium dodecyl benzene sulfonate (CCID)	LD <sub>50</sub> 1080mg/kg in rats (oral route).
Ethylene glycol (CCID)	LD <sub>50</sub> 1670mg/kg in cats (oral route). LC <sub>50</sub> 9530mg/kg in rabbit (dermal route). STOT (kidney) rat NOEL/LOEL 71-180mg/kg STOT (kidney, liver) oral noted
Diethylene Glycol (CCID)	

**SECTION 12: ECOLOGICAL INFORMATION**

**12.1 Ecotoxicity**

This product is classified as toxic to the aquatic environments and is also hazardous to soil organisms and terrestrial vertebrates.

**12.2 Environmental Fate**

Ester and salt forms of triclopyr rapidly turn into the triclopyr acid form in the environment. Most triclopyr is soluble in water, however, the ester form is less soluble. Triclopyr has a low vapour pressure, meaning it is not likely to release fumes into the environment. Triclopyr in water breaks down faster with light (half-life 1 day). Without light, it is stable in water with a half-life of 142 days. Triclopyr breaks down relatively quickly in soils (soil half-life ranges from 8 to 46 days) and is mobile in soils. Movement in soil is affected by depth and the amount of compost and rain, among other factors. (US NPIC)

**12.3 Ecotoxicity data:**

Triclopyr - butoxyethyl ester (Data ex CCID & US EPA)	Fish: <i>Rainbow trout</i> LC <sub>50</sub> (96 hr) 0.05mg/L ; Crustacea: <i>Daphnia spp</i> EC <sub>50</sub> (48 h) 1.7mg/L; Alga: EC <sub>50</sub> (24h) 0.1mg/L; Bees: not toxic; Bird: not toxic
Sodium dodecyl benzene sulfonate (Data ex CCID & US EPA)	Fish: Cod LC <sub>50</sub> (96 hr) 1mg/L; Crustacea: <i>Daphnia spp</i> EC <sub>50</sub> (48 h) 6mg/L; Alga: EC <sub>50</sub> (5D) 9.1mg/L

**SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1 Product Disposal**

If possible, dispose of by using according to label directions. Otherwise, dispose of to an approved waste management facility in accordance with local regulations.

**13.2 Container Disposal**

Triple rinse container and add rinsate to spray tank. Submit rinsed container to Agrecovery® or other approved facility for recycling. Alternatively, puncture and crush and dispose at an approved landfill. Do not use packaging for storage of other products

**SECTION 14: TRANSPORT INFORMATION**



**Road and Rail Transport:**

Classified as dangerous goods by the criteria of NZS 5433:2020: Transport of Dangerous Goods on Land.

**Marine Transport (IMO/IMDG):**

Classified as dangerous goods under the IMDG Code, 2020 Edition (inc. Amendment 40-20) 1 June 2022.

**Air Transport (ICAO/IATA):**

Classified as Dangerous Goods 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 TRICLOPYR 10%)
<b>Transport hazard class(es)</b>	9
<b>Packing Group:</b>	III
<b>HAZCHEM:</b>	2X
<b>Special Precautions for User:</b>	N/A
<b>Limited Quantity Provisions:</b>	5 L
<b>Land Transport Schedule Exemption Quantity (Maximum Transport Quantity (MTQ)):</b>	250 L

## SECTION 15: REGULATORY INFORMATION

### 15.1 Hazardous Substances and New Organisms (HSNO) Act 1996

Classified as a hazardous substance according to Hazardous Substances (Hazard Classification) Notice 2020.

<b>EPA Number:</b>	<b>Approval</b>	HSR000574: Emulsifiable concentrate containing 120g/litre triclopyr
<b>Hazard Classifications:</b>		Acute oral toxicity Category 4; Acute inhalation toxicity Category 4; Serious Eye Irritation Category 2; Skin Sensitisation category 1; Specific Target Organ Toxicity (repeated exposure) Category 2; Hazardous to the aquatic environment acute Category 1; Hazardous to the aquatic environment chronic Category 1; Hazardous to soil organisms; Hazardous to Terrestrial Vertebrates.

#### HSW (HS) Regulations 2017 Trigger quantities

<b>Certified Handler:</b>	Not required
<b>Location Certificate:</b>	Not required
<b>Signage Trigger Quantity (Schedule 3):</b>	100 L
<b>Emergency Response Plan (Schedule 5):</b>	100 L
<b>Secondary Containment (Schedule 16):</b>	100 L

<b>Tracking (Schedule 26):</b>	Not required
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**Controls:** Refer to [www.epa.govt.nz](http://www.epa.govt.nz) for full list of controls.

**Qualifications:** A person mixing, loading or applying this product must be suitably qualified or under the supervision of a suitably qualified person. Refer to Schedule 10 of the Hazardous Substances (Hazardous Property Controls) Notice 2017 for details.

**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.

<b>Tolerable Exposure Level (TEL):</b>	None set
<b>Environmental Exposure Level (EEL):</b>	None set
<b>International Agreements:</b>	Not applicable

### 15.2 ACVM Act 1997

The product is exempt from registration under Agricultural Compounds and Veterinary Medicines (ACVM) Act 1997.

## SECTION 16: OTHER INFORMATION

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

<b>SDS issued</b>	8 February 2024
<b>Version</b>	2
<b>SDS supersedes</b>	30 June 2022
<b>Reason issued</b>	Reissue of EPA approval

### 16.2 Abbreviations

<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>EC<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 Sheet
<b>NOAEL</b>	No Observable Adverse Effect Level
<b>NOEL</b>	No Observable Effect Level
<b>NOS</b>	Not otherwise specified
<b>STEL</b>	Short Term Exposure Limit
<b>SWA</b>	Safety Work Australia
<b>TWA</b>	Time-Weighted Average
<b>UN Number</b>	United Nations Number



**WES**                      Workplace Exposure Standard

### **16.3 References**

- ADR – ADRBOOK Dangerous Goods by Road  
Ministry of Transport – October 2008.
- NZ EPA CCID and Approved Substance databases
- PPDB- Pesticides Properties Database
- ECHA – European Chemical Agency
- IMDG – The international Maritime Dangerous Goods Code
- IATA Dangerous Goods Regulations (DGR)
- PUBCHEM - maintained by the National Centre for Biotechnology Information, a component of the National Library of Medicine, which is part of the United States National Institutes of Health
- WORKSAFE - New Zealand's primary workplace health and safety regulator
- HSWA – Health & Safety at Work Act 2015

### **16.4 OTHER**

Information contained in this Safety Data Sheet is provided in good faith and is believed to be correct at the date hereof. However, it's expected that individuals receiving the information will exercise independent judgement in determining its appropriateness for a particular purpose. Grosafe Chemicals Ltd makes no representation whatsoever as to the accuracy or comprehensiveness of the information and to the full extent allowed by law excludes all liability whatsoever, whether with respect to negligence or otherwise, and no responsibility as permitted by law for any loss or damage arising from or connection with the supply or use of the information in this Safety Data Sheet.

End of Safety Data Sheet