



# Grosafe Chemicals Ltd

## 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 triclopyr (as triclopyr – butoxyethyl ester)

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

Product Use: Selective Herbicide to control 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

Classifications: Acute toxicity (oral) Category 4; Acute toxicity (dermal) Category 3; Acute toxicity (inhalation) Category 4; Serious Eye Damage / Irritation Category 2; Skin Sensitisation category 1; Specific Target Organ Toxicity – repeated exposure Category 2; Hazardous to the aquatic environment – Category 1; Hazardous to soil organisms; Hazardous to Terrestrial Vertebrates.

#### 2.2 Label elements:

Pictograms:



Signal Word: **DANGER**

**Hazard statements:**

H302	Harmful if swallowed
H311	Toxic in contact with skin
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
H410	Very toxic to aquatic life with long lasting effects
H423	Harmful to the soil environment
H433	Harmful to terrestrial vertebrates

**Additional labelling statements required under Hazardous Substances (Labelling) Notice 2017 (EPA Consolidation 30 April 2021)**

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 waterways.

**Precautionary statements:**

*Prevention*

P102	Keep out of reach of children
P103	Read label before use.
P260 /261	Do not breathe / avoid breathing 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
P273	Avoid release to the environment.
P280	Wear protective clothing

*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 / physician if you feel unwell
P302 + P352	IF ON SKIN: Wash with plenty of soap and water
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position 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 / 314	Call a POISON CENTRE or doctor or physician or get medical advice / attention if you feel unwell
P321 / 322	Specific treatment / measures refer to first aid instructions on label
P330	Rinse mouth
P333 + P313	If skin irritation persists: Get medical advice / attention
P337+ P313	If eye irritation persists: Get medical advice / attention
P361	Remove / take off contaminated clothing
P363	Wash contaminated clothing before reuse
P391	Collect spillage

*Storage*

P405	Store locked up
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*Disposal*

P501	Dispose of contents/container in accordance with local regulations.
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### 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 contact 0800 CHEMCALL (0800 243622). Have label or Safety Data Sheet at hand.

**Ingestion:** If swallowed, rinse mouth with water. Do not induce vomiting. Call the NATIONAL POISONS CENTRE or doctor for advice if concerned or person feels unwell.

**Skin Contact:** Remove contaminated clothing and wash skin with plenty of soap and water. Get medical advice if irritation persists.

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

**Inhalation:** 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 concerned or person feels 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 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 avoid inhalation 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 – Edition 13, April 2022)

Ingredient	WES-TWA	WES-STEL	WES Ceiling
2-Butoxyethanol (Butyl glycol ether)	25ppm; 121mg/m <sup>3</sup>		
Ethylene glycol			50ppm (Vapour & mist); 127mg/m <sup>3</sup>
Diethylene Glycol	10ppm; 44mg/m <sup>3</sup> (ifv)	40ppm; 176mg/m <sup>3</sup> (ifv)	

## 8.2 Engineering controls

Recommended to use in well-ventilated area or outdoors.

## 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 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 well-ventilated area or use local exhaust ventilation

## 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	1.2g/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

## 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

Strong acids, strong alkalis and oxidising agents such as chlorine compounds etc.

### 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:	Classified as an acute dermal toxicant (Acute Toxicity (dermal) Category 3
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 damage / 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 mutagens
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 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
Diethylene Glycol (CCID)	NOEL/LOEL 71-180mg/kg STOT (kidney, liver) oral noted

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Ecotoxicity

This product is classified as ecotoxic 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: *Rainbow trout* LC<sub>50</sub> (96 hr) 0.05mg/L ; Crustacea: *Daphnia spp* 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: *Daphnia spp* 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

Dispose of to an approved landfill or waste management facility in accordance with local regulations.

### 13.2 Container Disposal

Empty packaging should be disposed of to an approved (pesticide) recycler or crushed and sent to 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>	2902
<b>UN Proper Shipping Name:</b>	PESTICIDE LIQUID TOXIC, N.O.S. (Triclopyr 12%)
<b>Transport hazard class(es)</b>	6.1
<b>Packing Group:</b>	III
<b>HAZCHEM:</b>	2X
<b>Special Precautions for User:</b>	N/A
<b>Limited Quantity</b>	5L
<b>Maximum gross mass of combination packaging (LQ)</b>	30kg

## 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.

Approved Hazardous Substance Number: HSR000574: Emulsifiable concentrate containing 120g/litre triclopyr

### 15.2 ACVM Act 1997

The product is exempt from registration under ACVM Regulations. Refer to <https://www.mpi.govt.nz/agriculture/agricultural-compounds-vet-medicines>

### 15.3 NZ Health and Safety at Work (Hazardous Substances) Regulations 2017

[www.worksafe.govt.nz](http://www.worksafe.govt.nz)

Certified Handler – not required

Quantity to be secured when left unattended – no limit

Location compliance certificate – required (>1000kg or 1000L) – 6.1C

Emergency Management – fire extinguishers – not required

Emergency Management – signage – required (>100kg or 100L) – 9.1A

Emergency Management - secondary containment and emergency response plan threshold quantity – (>100kg or 100L) – 9.1A

Tracking hazardous substances – not required

### 15.4 Additional Controls

The substance must not be applied onto or into waterways

Do not apply on or around food or animal feed crops or areas to be grazed by animals

## SECTION 16: OTHER INFORMATION

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

<b>SDS issued</b>	30 June 2022
<b>Version</b>	1
<b>SDS supersedes</b>	N/A
<b>Reason issued</b>	Update of SDS format (NZ–GHS)



## 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
<b>WES</b>	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