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## Vulcan Herbicide



Section 1: Identification	
Product name:	Vulcan Herbicide
Other names:	100 g/litre Picloram as the amine salt and 300g/litre Triclopyr as the butoxyethyl ester in the form of an emulsifiable concentrate.
Recommended use:	For the control of gorse, broom, blackberry and other brushweeds and certain broadleaf weeds in pasture, forestry, amenity turf and non-cropland areas.
Manufacturer/Importer details:	Agritrade 1 Robin Mann Place Christchurch Airport PO Box 292, Christchurch 8140
	Phone: 03 372 0890
24 hour emergency contact:	0800 CHEMCALL (0800 243 622)
National Poison Centre:	0800 POISON (0800 764 766)
Section 2: Hazard identification	on
	Product is classified as hazardous according to the Hazardous Substances (Hazard Classification) Notice 2020 of the HSNO Act, 1996.
HSNO Approval:	HSR000553
Hazardous classification:	Flammable liquid Category 4, Acute oral toxicity Category 4, Acute inhalation toxicity Category 4, Eye irritation Category 2, Skin sensitisation Category 1, Specific target organ toxicity (repeated exposure) Category 2, Hazardous to soil organisms, Hazardous to terrestrial vertebrates, Hazardous to the aquatic environment acute Category 1, Hazardous to the aquatic environment chronic Category 1
Signal word:	WARNING
Hazard statements:	<ul> <li>H227 Combustible liquid.</li> <li>H302 Harmful if swallowed.</li> <li>H312 Harmful in contact with skin.</li> <li>H332 Harmful if inhaled.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H319 Causes serious eye irritation.</li> <li>H373 May cause damage to organs through prolonged or repeated exposure.</li> <li>H410 Very toxic to aquatic life with long lasting effects.</li> </ul>

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	H421 Very toxic to soil environment. H433 Harmful to terrestrial vertebrates.
Prevention statements:	<ul> <li>P103 Read label before use.</li> <li>P210 Keep away from heat and open flames. No smoking.</li> <li>P260 Do not breathe vapours or spray mist.</li> <li>P264 Wash hands and exposed skin thoroughly after handling.</li> <li>P270 Do not eat, drink or smoke when using this product.</li> <li>P271 Use only outdoors or in a well-ventilated area.</li> <li>P272 Contaminated work clothing should not be allowed out of the workplace.</li> <li>P273 Avoid release to the environment.</li> <li>P280 Wear protective gloves, protective clothing, eye protection, face protection.</li> </ul>
Response statements:	<ul> <li>P101 If medical advice is needed, have product container or label at hand.</li> <li>P370+P378 In case of fire: Use carbon dioxide, dry chemical, foam or water fog for extinction.</li> <li>P301+P312 IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.</li> <li>P330 Rinse mouth.</li> <li>P302+P352 IF ON SKIN: Wash with plenty of soap and water.</li> <li>P333+P313 If skin irritation or rash occurs: Get medical attention.</li> <li>P312 Call a POISON CENTRE or doctor if you feel unwell.</li> <li>P304+P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.</li> <li>P312 Call a POISON CENTRE or doctor if you feel unwell.</li> <li>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P337+P313 If eye irritation persists: Get medical attention.</li> <li>P314 Get medical advice/attention if you feel unwell.</li> <li>P391 Collect spillage.</li> </ul>
Storage statements:	P403+P235 Store in a well-ventilated place. Keep cool.
Disposal statement:	P501 Dispose of product and containers in accordance with local Regulations. See section 13 for more details.
Additional Label Requirements:	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

Chemical identity of		1	
ingredients with health or environmental hazards:	Ingredient	CAS No.	Proportion w/w
	Triclopyr as butoxyethyl ester*	64700-56-7	35 – 38%
	Picloram as hexyloxypropylamine salt	1918-02-1	8 -9%

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	Diethylene glycol ethyl ether	111-90-0	3 -4%
	Other non-hazardous ingredients	-	Balance
	* Triclopyr (CAS No 55335-	-06-3) 25 -27% w	/w
Section 4: First-aid measures			
First aid measures:	If medical advice is needed hand. For advice contact N [0800 764 766] or a doctor.	ational Poisons C	
Inhalation:	Remove to fresh air and ke breathing. Get medical adv	ep at rest in a po	
Ingestion:	Rinse mouth. Get medical a	advice if person f	eels unwell.
Skin contact:	Wash with plenty of soap a irritation or rash occurs.	nd water. Get me	edical advice if skin
Eye contact:	Rinse cautiously with water lenses, if present and easy advice if eye irritation persis	to do. Continue r	
First aid facilities:	Provide eye baths and safe product contact or splashin		to areas where
Advice to doctor:	Treat symptomatically.		
Section 5: Fire-fighting measu	ures		
Flammability:	Combustible liquid.		
Appropriate extinguishing media:	Carbon dioxide (CO <sub>2</sub> ), dry o	chemical, foam, v	vater fog.
Combustion products:	May produce toxic and irrita Refer to Section 10.	ating vapours und	ler fire conditions.
Special protective equipment and precautions for fire- fighters:	Self-contained breathing ap spaces.	oparatus may be	required in confined
HAZCHEM code:	3Z		
Section 6: Accidental release	measures		
Personal precautions:	Combustible liquid. No sm sources of ignition. Wear p coveralls, boots, gloves, ey through spilled material. St	rotective equipme e protection. Do	ent; chemical resistant not touch or walk
Environmental precautions:	Contain spill. Prevent from Notify local authorities if co chemical contaminating soi	ntamination of wa	

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Procedure for clean up:	suitable labelled c spills with suitable contaminated area	ignition. Contain ar container for disposa e inert material, e.g. a with water and de osal. Dispose of cor	al. Absorb resid sand, vermicu tergent, absorb	due or small lite. Wash o and put in
Section 7: Handling and stora	age			
Safe handling:	Read label before use. Combustible liquid. No smoking. Keep away from heat and open flames. Wear personal protective equipment. To be used only by suitably qualified person and in			
Safe storage:	compliance with HSNO Controls. Keep out of reach of children. Keep container tightly closed when not in use. Combustible liquid. Store in secure, cool, well- ventilated area away from foodstuffs, seeds, fertilisers and human/animal health products. Storage must be in accordance with the current version NZS 8409 Management of Agrichemicals.			
Section 8: Exposure controls	/personal protection	on		
Occupational exposure limits:	Ingredient	Form of exposure	WES-TWA	WES-STEL
	Picloram	-	10 mg/m <sup>3</sup>	-
Biological limit value:	Not set.			
Engineering controls:	Use outdoors in well ventilated space. Otherwise use local extraction to keep below exposure guidelines.			
Respiratory protection:	Wear half or full mask fitted with particle filter when mixing or applying spray.			
Hand protection:	Chemical resistan	t gloves.		
Eye protection:	Chemical goggles	or a face shield.		
Skin protection:	Overalls and boot	S.		
General hygiene:	Do not eat, drink or smoke while using. Wash hands and exposed skin thoroughly with soap and water before meals and after work. Wash protective clothing daily after work.			
Section 9: Physical and chen	nical properties			
<ul><li>(a) Appearance:</li><li>(b) Odour:</li></ul>	Brown liquid. Mild			
	NI 1.4			

(D)	Odour:	MIID
(c)	Odour threshold:	No data.
(d)	pH:	No data.
(e)	Melting point/freezing	
	point:	Not applicable.
(f)	Initial boiling point and	
	boiling range:	196°C
(g)	Flash point:	82°C

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(viii)

Carcinogenicity:

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(h)	Flammability (solid, gas):	No data.
(i)	Upper/lower flammability or explosive limits:	No data.
(j)	Vapour pressure:	10x10⁵mm Hg at 33°C (triclopyr butoxyethyl ester) 65x10 <sup>7</sup> mm Hg at 35°C (picloram acid)
(k)	Vapour density:	No data.
(I)	Relative density:	1.124 at 20°C
(m)	Solubility:	Emulsifiable in water.
(n)	Partition coefficient: n-octanol/water:	No data.
(0)	Auto-ignition temperature:	No data.
(p)	Decomposition temperature:	No data.
(q)	Kinematic viscosity	No data.
(r)	Particle	Not applicable.
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Section 10: Stability and reactivity			
Stabil	ity of the substance:	Stable under normal conditions of storage and use.	
Condi	itions to avoid:	Exposure to heat and sources of ignition.	
Incom	npatible materials:	Oxidizing agents.	
Hazardous decomposition products:		CO <sub>2</sub> , and if combustion is incomplete, carbon monoxide and smoke oxides of nitrogen, hydrogen chloride gas, chlorides, and in some circumstances, phosgene.	
Section	Section 11: Toxicological information		
		Toxicity classifications determined by assessment of the components in the formulated mixture.	
(i)	Acute toxicity:	Classified as acutely toxic if ingested or inhaled.	
(ii)	Aspiration hazard:	Not classified as aspirant hazard.	
(iii)	Respiratory irritation:	Not classified as respiratory irritant.	
(iv)	Skin corrosion / irritation:	Mild skin irritant.	
(v)	Serious eye damage / irritation:	Classified as serious eye irritant.	
(vi)	Respiratory or skin sensitisation:	Triclopyr butoxyethyl ester is classified as a skin sensitizer.	
(vii)	Germ cell mutagenicity:	Not classified as mutagenic.	

Not classified as carcinogenic.

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(ix) (x)	Reproductive toxicity: Specific organ toxicity:	Not classified as either a reproductive or developmental toxicant. Target organ toxicant by repeated exposure. Picloram may affect liver and triclopyr butoxyethyl ester can have adverse effects on kidneys.
(xi)	Narcotic effects:	Not classified.
Toxico produc	ological information for ct:	Oral LD <sub>50</sub> (rat): >2000 mg/kg bodyweight Dermal LD <sub>50</sub> (rabbit): >2000 mg/kg
Toxicological information for triclopyr butoxyethyl ester:		Oral LD <sub>50</sub> : 803 mg/kg bodyweight
Toxico piclora	ological information for am:	Oral LD <sub>50</sub> (mouse): 1061 mg/kg bodyweight

#### Section 12: Ecological information

		Ecotoxicological classifications determined by assessment of the components in the formulated mixture.
(a) (b)	Aquatic toxicity: Terrestrial vertebrate	Toxic to aquatic life with long lasting effects.
(C) (C)	toxicity: Terrestrial invertebrate	Harmful to terrestrial vertebrates.
(0) (d)	toxicity: Persistence and	Not classified.
	degradability: Potential to be	Triclopyr ethoxyethyl ester and pichloram are persistent and do not rapidly degrade. $DT_{50}$ in soil >30 days.
(e)	bioaccumulative:	Triclopyr ethoxyethyl ester and pichloram are not identifed as being bioaccumulative in aquatic species.
(f)	Mobility in soil:	Triclopyr ethoxyethyl ester and pichloram are mobile in soil.
	xicological information iclopyr ethoxyethyl ester:	Lepomis macrochirus (bluegill sunfish) $LC_{50}$ (96hr) 0.36 mg/L Navicula pelliculosa (freshwater diatom) $EC_{50}$ (24hr) 0.10 mg/L Daphnia magna $EC_{50}$ (48 hr) 1.7 mg/L Crassostrea virginica (Eastern oyster) $EC_{50}$ (96hr) 0.46 mg/L Alfalfa $EC_{25}$ 0.0129 mg/kg soil Apis mellifera (honey bee) $LD_{50}$ (48hr) 14.5 µg/bee
	xicological information cloram:	Salvellinus namaycush (lake trout) LC <sub>50</sub> (96hr) 1.55 mg/kg Selenastrum capricornutum (green alga) EC <sub>50</sub> (72hr) 36.79 mg/L Daphnia magna LC <sub>50</sub> (48hr) 50.7 mg/L Bobwhite quail LD <sub>50</sub> (21 days) 735 mg/kg
Secti	on 13: Disposal conside	rations
Produ	ıct disposal:	Dispose of this product only by using according to the label or through Agrecovery chemical disposal or similar approved service or to an approved landfill.
Conta	iner disposal:	Recycle through Agrecovery if possible or appropriate recycling facility. Alternatively, crush and bury in an approved landfill. Do not use container for any other purpose. Avoid contamination of any water supply or stream with product or empty container.

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Section 14: Transport informa		
UN number:		
UN proper shipping name:	ENVIRONMENTALLY HAZRDOUS SUBS N.O.S (contains Triclopyr 30%, Picloram 1)	
UN class:	9	0,0)
Packing group:	III	
Subsidiary risk:	-	
Environmental hazards:	Marine pollutant.	
Special precautions:	-	
	This product is classified as a Dangerous (	Good. Consult the Land
	Transport Rule: Dangerous Goods 2005 a	
	Transport of Dangerous Goods on Land fo	r more information
Section 15: Regulatory inform	nation	
HSNO:	Approved substance under the HSNO Act	1996.
HSNO approval number:	HSR000553; Emulsifiable concentrate con picloram as the amine salt and 300 - 420 g butoxyethyl ester.	
Tolerable exposure limit / environmental exposure limit:	Not set.	
HSNO controls:	See <u>www.epa.govt.nz</u>	
Additional controls:	This substance must not be applied onto o	r into water.
	Safety Data Sheet:	Any quantity
	Restricted to workplace only:	No
	Quantity that requires management in	100 L
	accordance with HSW HS Regulations: Quantity for secondary containment and	100 L
	emergency response plan:	100 2
	Quantity for signage:	100 L
	Record of use if more that 3 kg applied	Yes
	to area within 24 hour period Qualified handler required	Yes
	Fire extinguishers:	2 required when 500
		or more stored
	Label requirements;	
	<ul> <li>Do not apply directly onto or into water.</li> </ul>	
	<ul> <li>Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.</li> </ul>	
ACVM:	Refer to HS Notices (www.epa.govt.nz) an (www.worksafe.govt.nz)	
ACVM registration number:	Registered under the Agricultural Compour Medicines Act 1997.	nds Veterinary

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Conditions of registration:	P009418
	See <u>www.foodsafety.govt.nz</u>
Section 16: Other information	
Date of issue: Reason for reissue: Replaces:	30/09/2021 Updated regulations – GHS terminology and revised hazard classifications. SDS issued March 2020.
Information references:	Supplier Safety Data Sheet NZ EPA Approved hazardous substances with controls Workplace Exposure Standards and Biological Exposure Indices
Abbreviations:	<ul> <li>ACVM: Agricultural Chemicals and Veterinary Medicines Group HSNO: Hazardous substances and New Organisms Act 1996 (HSNO Act)</li> <li>EPA: Environmental Protection Authority of New Zealand CAS Number: Chemical Abstracts Service Number</li> <li>LD50: Lethal Dose 50% (Population)</li> <li>LC50: Lethal Concentration 50% (Population)</li> <li>WES-TWA: Workplace exposure standards – Time-weighted average</li> <li>WES-STEL: Workplace exposure standards – Short-term exposure limit</li> </ul>

The data provided in this safety data sheet is based on current knowledge and experience. The purpose of this document is to describe the product in terms of its safety requirements. The above details do not imply any guarantee concerning composition, properties or performance of the product.