

Infosafe No™ 3NU9Y Issue Date : October 2024 ISSUED by NUFARMNZ

Product Name **SCRUBCUTTER®**

## Section 1 - Identification

<b>Product Identifier</b>	SCRUBCUTTER®
<b>Product Code</b>	01836
<b>Product Type</b>	Selective herbicide
<b>Company Name</b>	Nufarm NZ
<b>Address</b>	Central Park, Building 3, Level 4, 666 Great South Road Ellerslie Auckland 1051 New Zealand
<b>Telephone/Fax Number</b>	Tel: 0-9-270 4150
<b>Emergency Phone Number</b>	0800 651 911
<b>Email</b>	nzinfo@nufarm.com
<b>Recommended uses and any restrictions on use or supply</b>	Grass friendly herbicide for the control of gorse, broom, blackberry and other brushweeds. Also for broadleaf weed control in turf.
<b>Other Information</b>	This SDS describes, to the best of our knowledge, the properties of the concentrated product. The physical properties and some of the assessments do not apply to the properties of the product once it has been diluted for application. Acute health effects of the diluted product are likely to be much less severe.

## Section 2 - Hazard(s) Identification

<b>GHS classification of the substance/mixture</b>	Acute oral toxicity: Category 4 Eye irritation Category 2 Skin corrosion/irritation: Category 1 Specific target organ toxicity - repeated exposure: Category 2 Hazardous to the terrestrial environment: Hazardous to soil organisms Hazardous to the terrestrial environment: Hazardous to terrestrial vertebrates Hazardous to the aquatic environment acute Category 1 Hazardous to the aquatic environment chronic Category 1
<b>Signal Word (s)</b>	WARNING
<b>Hazard Statement (s)</b>	H302 Harmful if swallowed H319 Causes serious eye irritation H317 May cause an allergic skin reaction H373 May cause damage to kidney through prolonged or repeated exposure H410 Very toxic to aquatic life with long lasting effects H421 Very toxic to the soil environment H433 Harmful to terrestrial vertebrates
<b>Precautionary Statement – General</b>	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Read label before use.
<b>Pictogram (s)</b>	Health hazard, Environment



<b>Precautionary Statement – Prevention</b>	P264 Wash hands and face thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P272 Contaminated work clothing should not be allowed out of the workplace. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P273 Avoid release to the environment.
---	---

Infosafe No™ 3NU9Y	Issue Date :October 2024	ISSUED by NUFARMNZ
--------------------	--------------------------	--------------------

Product Name **SCRUBCUTTER®**

<b>Precautionary Statement – Response</b>	<p>P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.</p> <p>P330 Rinse mouth.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P337+P313 If eye irritation persists: Get medical advice/attention.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/attention.</p> <p>P363 Wash contaminated clothing before reuse.</p> <p>P314 Get medical advice/attention if you feel unwell.</p> <p>P391 Collect spillage.</p>
<b>Precautionary Statement – Disposal</b>	P501 Dispose of contents/container to an approved landfill.

## Section 3 - Composition and Information on Ingredients

<b>Chemical Characterization</b>	Liquid		
<b>Ingredients</b>	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Triclopyr (present as the butoxyethyl ester)	64470-88-8	600 g/L
	Ingredients determined to be non-hazardous	-	10-30 %
	Butyl diglycol	112-34-5	10-30 %

## Section 4 - First Aid Measures

<b>First-aid Measures</b>	For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. Begin artificial respiration if the victim is not breathing. Use mouth-to-nose rather than mouth-to mouth. Obtain medical attention.
<b>Inhalation</b>	Remove patient to fresh air. Lay down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. If swallowed do NOT induce vomiting. For advice, contact the National Poisons Centre (0800 764 766). Seek medical assistance immediately.
<b>Skin</b>	Immediately flush body and clothes with large amounts of water. Remove contaminated clothing and footwear. Wash affected areas with soap and water. If a large area is affected seek medical assistance.
<b>Eye</b>	Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Seek medical assistance. Remove contact lenses, if present and easy to do.
<b>First-aid Facilities</b>	Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.
<b>Advice to Doctor</b>	Treat symptomatically.

## Section 5 - Firefighting Measures

<b>Suitable Extinguishing Media</b>	Water fog, foam, carbon dioxide or dry chemical.
<b>Hazards from Combustion Products</b>	If involved in a fire, it will emit oxides of carbon, oxides of nitrogen, hydrogen chloride and possibly phosgene.
<b>Special protective equipment for fire-fighters</b>	Full protective clothing and self-contained breathing apparatus.
<b>Specific Methods</b>	Keep up wind. Do not allow washings to reach sewage or effluent systems.
<b>Hazchem Code</b>	2X
<b>Decomposition Temperature</b>	Information is not available.
<b>Other Information</b>	Location Certificate: Not applicable Hazardous Atmosphere Zone: Not applicable

Infosafe No™ 3NU9Y	Issue Date :October 2024	ISSUED by NUFARMNZ
Product Name <b>SCRUBCUTTER®</b>		

Number of Fire Extinguishers: Not applicable

## Section 6 - Accidental Release Measures

<b>Spills and Disposal</b>	Wear protective clothing. Clear area of unprotected personnel. Contain spill and absorb with sand, soil or absorbent granules. If spill does enter waterways contact the local authority. Collect in an appropriate sealable container for disposal in an approved landfill.
<b>Personal Protection</b>	For appropriate personal protective equipment (PPE), refer Section 8.
<b>Environmental Precautions</b>	Prevent from entering drains, waterways or sewers. This product is a herbicide and spills can damage crops, pastures and desirable vegetation.

## Section 7 - Handling and Storage

<b>Precautions for Safe Handling</b>	<p>The person mixing or applying Scrubcutter must be a 'Qualified Contractor' or a 'Qualified Person'. The spray mixture may also be prepared by a 'Qualified Loader'.</p> <p>It is the duty of the PCBU that a person who uses, handles, manufactures or stores a hazardous substance (including hazardous waste) is provided information, instruction and training in accordance with Regulation 4.5 of the Health and Safety at work (Hazardous Substances) Regulations 2017.</p> <p>Avoid skin and eye contact and inhalation of spray mist.</p> <p>This product must not be applied onto or into water.</p> <p>BEWARE: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants.</p> <p>CERTIFIED HANDLER: Is not required.</p> <p>TRACKING: Is not required.</p> <p>RECORD KEEPING: Records of use, as described in NZS 8409 Management of Agrichemicals, must be kept if 3 litres or more of Scrubcutter is applied within 24 hours. Records must be kept for a minimum of 3 years from application date.</p>
<b>Conditions for safe storage, including any incompatibilities</b>	<p>Keep out of reach of children.</p> <p>Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs, fertilisers, pesticides and seeds. Storage must be in accordance with NZS 8409 Management of Agrichemicals. Stores containing 100L of Scrubcutter require secondary containment and are subject to signage, and more than 100L require emergency response plans.</p>
<b>Other Information</b>	<p>Always read the label and any attached leaflet before use.</p> <p>Aggregate Storage Volume Thresholds:</p> <p>When stored with substances of the same hazard classification the aggregate quantity must be considered. For full details refer to the current NZS8409 Management of Agrichemicals and the HSNO Regulations.</p>

## Section 8 - Exposure Controls and Personal Protection

<b>Occupational Exposure Limits (OEL)</b>	No exposure limits (WES, TEL or EEL's) have been specifically assigned for this product.
<b>Appropriate Engineering Controls</b>	Use in a well ventilated area only.
<b>Personal Protective Equipment</b>	When opening the container, preparing spray and using the prepared spray wear safety goggles, waterproof gloves, cotton overalls buttoned to the neck and wrist, and boots.
<b>Hygiene Measures</b>	<p>Do not eat, drink or smoke while using.</p> <p>Remove protective clothing and wash hands and face thoroughly before meals and after work. Wash protective clothing daily after work.</p>

## Section 9 - Physical and Chemical Properties

<b>Form</b>	Liquid
<b>Appearance</b>	Amber liquid.
<b>Odour</b>	Information is not available.

Infosafe No™ 3NU9Y	Issue Date : October 2024	ISSUED by NUFARMNZ
--------------------	---------------------------	--------------------

Product Name **SCRUBCUTTER®**

<b>Decomposition Temperature</b>	Information is not available.
<b>Melting Point</b>	150.5°C for triclopyr.
<b>Boiling Point</b>	Decomposes at 208°C for triclopyr.
<b>Solubility in Water</b>	Emulsifies in water.
<b>Specific Gravity</b>	1.195
<b>pH</b>	4-5 (1% aqueous)
<b>Vapour Pressure</b>	0.48 mPa (triclopyr butoxyethyl ester)
<b>Vapour Density (Air=1)</b>	Information is not available.
<b>Odour Threshold</b>	Information is not available.
<b>Viscosity</b>	~57 mPa.s
<b>Partition Coefficient: n-octanol/water</b>	Kow logP = 0.42 (pH 5), -0.45 (pH 7), -0.96 (pH 9) for triclopyr.
<b>Flash Point</b>	>100°C (pmcc)
<b>Flammability</b>	Combustible
<b>Auto-ignition Temperature</b>	Information is not available.
<b>Flammable Limits - Lower</b>	Information is not available.
<b>Flammable Limits - Upper</b>	Information is not available.
<b>Kinematic Viscosity</b>	Information is not available.
<b>Particle Characteristics</b>	Information is not available.
<b>Relative Density</b>	1.85 (21°C) for triclopyr.
<b>Other Information</b>	(EC) Emulsifiable concentrate

## Section 10 - Stability and Reactivity

<b>Chemical Stability</b>	Stable under normal conditions of handling and storage.
<b>Possibility of Hazardous Reactions</b>	Keep away from strong oxidising agents.
<b>Hazardous Polymerization</b>	Not known to occur.

## Section 11 - Toxicological Information

<b>Acute Toxicity - Oral</b>	LD50 (rat) 803 mg/kg for triclopyr butoxyethyl ester.
<b>Acute Toxicity - Inhalation</b>	LC50 (rat) (4hr) >256 mg/l for triclopyr.
<b>Acute Toxicity - Dermal</b>	LD50 (rabbit) >2000 mg/kg for triclopyr butoxyethyl ester.
<b>Skin Corrosion/Irritation</b>	Non-irritating to skin (rabbits) for triclopyr.
<b>Serious Eye Damage/Irritation</b>	Causes serious eye irritation.
<b>Skin Sensitisation</b>	May cause an allergic skin reaction.
<b>Germ Cell Mutagenicity</b>	Information is not available.
<b>Carcinogenicity</b>	Information is not available.

Infosafe No™ 3NU9Y	Issue Date :October 2024	ISSUED by NUFARMNZ
--------------------	--------------------------	--------------------

Product Name **SCRUBCUTTER®**

<b>Reproductive Toxicity</b>	Information is not available.
<b>STOT - Single Exposure</b>	Information is not available.
<b>STOT - Repeated Exposure</b>	May cause kidney damage through prolonged or repeated oral exposure at high doses.
<b>Aspiration Hazard</b>	Information is not available.
<b>Chronic Effects</b>	NOEL (rat) 2 years, 3.0mg/kg b/w daily. NOEL (mice) 2 years, 35.7mg/kg b/w daily.
<b>Other Information</b>	The Australian Acceptable Daily Intake (ADI) for triclopyr for a human is 0.005 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 0.5 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Aust Govt Dept. of APVMA, 'ADI List', Edition 2/2024).

## Section 12 - Ecological Information

<b>Persistence and Degradability</b>	Triclopyr butoxyethyl ester is rapidly hydrolysed to triclopyr acid in soil and water. Triclopyr acid is degraded by microbial action and photodecomposition. Triclopyr acid, in soil, has a half-life of approximately forty days, depending on soil and climatic conditions. In water, triclopyr acid will decompose rapidly with a half-life of one to two days. Minimal leaching of triclopyr acid may occur in light soils under high rainfall conditions. Contamination of ground water by triclopyr is highly unlikely.
<b>Mobility</b>	Information is not available.
<b>Bioaccumulative Potential</b>	In mammals, following oral administration, excretion is primarily via the urine as the unchanged compound. Triclopyr does not bio-accumulate in animal systems. BCF = 0.77 (triclopyr)
<b>Other Precautions</b>	Do not contaminate streams, rivers or waterways with the chemical or used containers.
<b>Acute Toxicity - Fish</b>	The following is data for the ingredient, triclopyr. LC50 (96hr) for rainbow trout is 117 mg/l LC50 (96hr) for bluegill sunfish is 148 mg/l.
<b>Acute Toxicity - Daphnia</b>	LC50 (48hr) is 133 mg/l for triclopyr.
<b>Acute Toxicity - Algae</b>	EC50 (5d) for Selenastrum capricornutum is 45 mg/l for triclopyr. ErC50 (72h) for Raphidocelis subcapitata is 75.8 mg/l for triclopyr.
<b>Acute Toxicity - Other Organisms</b>	Birds: LC50 for bobwhite quail is 2935 mg/kg, for Mallard Duck is 1698 mg/kg for triclopyr. Bees: Non-toxic to bees; contact LD50 >100µg/bee for triclopyr.

## Section 13 - Disposal Considerations

<b>Product Disposal</b>	Dispose of product only by using according to the label, or at an approved landfill.
<b>Container Disposal</b>	Triple rinse empty container and add rinsate to spray tank. Recycle empty container. Otherwise crush and bury in a suitable landfill.

## Section 14 - Transport Information

<b>Transport Information</b>	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.
<b>UN Number</b>	3082
<b>Proper Shipping Name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (triclopyr)
<b>Hazard Class</b>	9
<b>Hazchem Code</b>	2X
<b>Packaging Method</b>	-
<b>Packing Group</b>	III

Infosafe No™ 3NU9Y	Issue Date :October 2024	ISSUED by NUFARMNZ
--------------------	--------------------------	--------------------

Product Name **SCRUBCUTTER®**

<b>EPG Number</b>	-
<b>IERG Number</b>	47
<b>IMO Marine Pollutant</b>	Yes. Environmentally Hazardous Substance mark required.
<b>IMDG EMS</b>	F-A, S-F
<b>Other Information</b>	Do not carry this product on a passenger service vehicle.  Segregation: Check the latest Land Transport Rule Dangerous Goods Rule 45001 for additional information. Sea transport may require additional segregation. Refer NZS5433 sea segregation for details.

## Section 15 - Regulatory Information

<b>National and or International Regulatory Information</b>	Registered pursuant to the ACVM Act 1997, No. P5317 See <a href="http://www.foodsafety.govt.nz">www.foodsafety.govt.nz</a> for registration conditions Approved pursuant to the HSNO Act 1996, Approval Code HSR000829 See <a href="http://www.epa.govt.nz">www.epa.govt.nz</a> for approval controls.
---	---

## Section 16 - Any Other Relevant Information

<b>Date of preparation or last revision of SDS</b>	December 2019.
<b>Contact Person/Point</b>	IN AN EMERGENCY, DIAL 111 - FIRE OR POLICE 24Hr Tollfree Emergency No: 0800 651 911 24Hr Emergency No: National Poisons Centre Phone: 0800 764 766
<b>Revisions Highlighted</b>	5 Yearly review carried out. Various changes and updates made to the document to comply with GHS7. ...End Of MSDS...

© Copyright Chemical Safety International Pty Ltd

Copyright in the source code of the HTML, PDF, XML, XFO and any other electronic files rendered by an Infosafe system for Infosafe MSDS displayed is the intellectual property of Chemical Safety International Pty Ltd.

Copyright in the layout, presentation and appearance of each Infosafe MSDS displayed is the intellectual property of Chemical Safety International Pty Ltd. The compilation of MSDS's displayed is the intellectual property of Chemical Safety International Pty Ltd.

Copying of any MSDS displayed is permitted for personal use only and otherwise is not permitted. In particular the MSDS's displayed cannot be copied for the purpose of sale or licence or for inclusion as part of a collection of MSDS without the express written consent of Chemical Safety International Pty Ltd.