

Infosafe No™ 3NU9Y	Issue Date : December 2019	ISSUED by NUFARM
--------------------	----------------------------	------------------

 Product Name **SCRUBCUTTER®**

1. Identification

GHS Product Identifier	SCRUBCUTTER®
Product Code	01836
Product Type	Selective herbicide
Company Name	Nufarm NZ
Address	6 Manu Street, Otahuhu Auckland 2024 New Zealand
Telephone/Fax Number	Tel: 0-9-270 4150
Emergency phone number	0800 651 911
Email	nzinfo@nufarm.com
Recommended use of the chemical and restrictions on use	Grass friendly herbicide for the control of gorse, broom, blackberry and other brushweeds. Also for broadleaf weed control in turf.
Other Information	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.

2. Hazard Identification

Other Information	6.1D acute toxicant, 6.3B skin irritant, 6.4A eye irritant, 6.5B sensitiser, 6.9B target organ toxicant, 9.1A aquatic toxicant, 9.2A soil toxicant, 9.3C terrestrial vertebrate toxicant, TOXICITY Harmful - may be harmful if swallowed, inhaled or absorbed through the skin. May cause mild skin irritation, or sensitisation from prolonged skin contact. May cause kidney damage from repeated oral exposure at high doses. May cause eye irritation. ECOTOXIC Very toxic to aquatic organisms. Selective herbicide - very toxic to some plant species. Harmful to terrestrial vertebrates.
--------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

3. Composition/information on ingredients

Chemical Characterization	Liquid		
Ingredients	Name	CAS	Proportion
	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 %

4. First-aid measures

First Aid Measures	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.
Inhalation	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.
Ingestion	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.
Skin	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.

Infosafe No™ 3NU9Y	Issue Date : December 2019	ISSUED by NUFARM
--------------------	----------------------------	------------------

Product Name **SCRUBCUTTER®**

Eye contact	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.
First Aid Facilities	Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.
Advice to Doctor	Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media	Water fog, foam, carbon dioxide or dry chemical.
Hazards from Combustion Products	If involved in a fire, it will emit oxides of carbon, oxides of nitrogen, hydrogen chloride and possibly phosgene.
Special Protective Equipment for fire fighters	Full protective clothing and self-contained breathing apparatus.
Specific Methods	Keep up wind. Do not allow washings to reach sewage or effluent systems.
Hazchem Code	2X
Other Information	Location Certificate: Not applicable Hazardous Atmosphere Zone: Not applicable Number of Fire Extinguishers: Not applicable

6. Accidental release measures

Spills & Disposal	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.
Personal Protection	For appropriate personal protective equipment (PPE), refer Section 8.
Environmental Precautions	Prevent from entering drains, waterways or sewers. This product is a herbicide and spills can damage crops, pastures and desirable vegetation.

7. Handling and storage

Precautions for Safe Handling	Avoid skin and eye contact and inhalation of spray mist. APPROVED HANDLER: This product must be under the control of an approved handler when applied in a wide dispersive manner; or used by a commercial contractor. RECORD KEEPING: Records of use as described in NZS 8409 Management of Agrichemicals must be kept if 3L or more is applied within 24 hours. BEWARE: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants. TRACKING: Location and movement of this product must be recorded at each stage of its lifecycle.
Conditions for safe storage, including any incompatibilities	Keep out of reach of children. 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.
Other Information	Always read the label and any attached leaflet before use. Aggregate Storage Volume Thresholds: 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.

8. Exposure controls/personal protection

Occupational exposure limit values	No exposure limits (WES, TEL or EEL's) have been specifically assigned for this product.
Appropriate engineering controls	Use in a well ventilated area only.
Personal Protective Equipment	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.

Infosafe No™ 3NU9Y	Issue Date : December 2019	ISSUED by NUFARM
--------------------	----------------------------	------------------

 Product Name **SCRUBCUTTER®**

Hygiene Measures	Do not eat, drink or smoke while using. Remove protective clothing and wash hands and face thoroughly before meals and after work. Wash protective clothing daily after work.
-------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

9. Physical and chemical properties

Form	Liquid
Appearance	Amber liquid
Solubility in Water	Emulsifies in water
Specific Gravity	1.195
pH	4-5 (1% aqueous)
Vapour Pressure	0.48 mPa (triclopyr butoxyethyl ester)
Viscosity	~57 mPa.s
Partition Coefficient: n-octanol/water	Kow (@ pH 5) = 0.42, (@ pH 7) = -0.45, (@ pH 9) = -0.96 (triclopyr)
Flash Point	>100°C (pmcc)
Flammability	Combustible
Other Information	(EC) Emulsifiable concentrate

10. Stability and reactivity

Chemical Stability	Stable under normal conditions of handling and storage.
Possibility of hazardous reactions	Keep away from strong oxidising agents.
Hazardous Polymerization	Not known to occur.

11. Toxicological Information

Toxicology Information	No harmful effects are expected if the precautions on the label and this SDS are followed.
Acute Toxicity - Oral	LD50 (rat) 803 mg/kg for triclopyr butoxyethyl ester
Acute Toxicity - Dermal	LD50 (rabbit) >2000 mg/kg for triclopyr butoxyethyl ester
Acute Toxicity - Inhalation	LC50 (rat) (4hr) >256 mg/l for triclopyr
Ingestion	Ingestion of the product in relatively large amounts can result in headaches, nausea, lethargy, motor weakness and incoordination.
Inhalation	High vapour concentrations of the solvent while handling the concentrate are irritating to the eyes and the respiratory tract, may cause headaches and dizziness, and may have other central nervous system effects.
Skin	May irritate the skin. Prolonged or repeated exposure may cause skin sensitisation.
Eye	Will irritate the eyes. Moderate eye irritant.
Carcinogenicity	Data indicates no carcinogenic effects.
Reproductive Toxicity	No data to support a positive result.
Chronic Effects	Based on available data, repeated exposures are not anticipated to cause additional significant adverse effects. NOEL (rat) 2 years, 3.0mg/kg b/w daily. NOEL (mice) 2 years, 35.7mg/kg b/w daily.
Mutagenicity	Data indicates no mutagenic effects.
Other Information	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: Comm. Dept. of Health and Ageing, Office of Chemical Safety, 'ADI List', 30 June 2014).

Infosafe No™ 3NU9Y	Issue Date : December 2019	ISSUED by NUFARM
--------------------	----------------------------	------------------

 Product Name **SCRUBCUTTER®**

12. Ecological information

Persistence and degradability	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.
Bioaccumulative Potential	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)
Other Precautions	Do not contaminate streams, rivers or waterways with the chemical or used containers.
Acute Toxicity - Fish	This substance must not be applied onto or into water. 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.
Acute Toxicity - Daphnia	LC50 (48hr) for daphnia is 133 mg/l.
Acute Toxicity - Algae	EC50 (5d) for Selenastrum capricornutum is 45 mg/l ErC50 (72h) for Raphidocelis subcapitata is 75.8 mg/l
Acute Toxicity - Other Organisms	Bees: Not toxic to bees. LD50 for triclopyr is >100 µg/bee. Not toxic to birds. LC50 (dietary) for Bobwhite Quail is 2935 mg/kg LD50 (oral) for Mallard Duck is 1698 mg/kg LC50 (14d) for Earthworm (Eisenia foetida) is >521 mg/kg soil

13. Disposal considerations

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

14. Transport information

Transport Information	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.
U.N. Number	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (triclopyr, 60%)
Transport hazard class(es)	9
Hazchem Code	2X
Packaging Method	-
Packing Group	III
EPG Number	-
IERG Number	47
IMO Marine Pollutant	Yes. Environmentally Hazardous Substance mark required.
IMDG EMS	F-A, S-F
Other Information	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.

15. Regulatory information

National and or International Regulatory Information	Registered pursuant to the ACVM Act 1997, No. P5317 See www.foodsafety.govt.nz for registration conditions Approved pursuant to the HSNO Act 1996, Approval Code HSR000829 See www.epa.govt.nz for approval controls.
-------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------



Safety Data Sheet

infosafe
CS: 1.7.2

Page: 5 of 5

Infosafe No™ 3NU9Y Issue Date : December 2019 ISSUED by NUFARM

Product Name **SCRUBCUTTER®**

Packaging & Labelling HARMFUL * ECOTOXIC - keep out of reach of children
Hazard Rating NFPA/HMIS: 2-2-1
Systems

16. Other Information

Date of preparation or last revision of SDS December 2014

Contact Person/Point 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
5 Yearly review carried out.

Revisions Highlighted

...End Of MSDS...

© Copyright ACOHS 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 Acohs Pty Ltd.

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