Safety Data Sheet

Eliminate Brushkiller



Section 1: SUBSTANCE IDENTIFICATION AND SUPPLIER

Product Name:	ELIMINATE BRUSHKILLER
Product Code:	7925090 (20Lt) 7925093 (200Lt)
Recommended Use:	Selective herbicide for the control of brushweeds and spot treatment of many broadleaf weeds.
Restrictions of Use:	Refer to Section 15
Company Identification:	Ravensdown Limited
Address:	292 Main South Road, Hornby, Christchurch, 8042 PO Box 1049, Christchurch 8011
Customer Centre:	0800 100 123
National Poisons Information Centre:	0800 POISON (0800 764 766)
Emergency Phone Number:	0800 CHEMCALL (0800 243 622) (24hr) (Emergencies Only)
Transport Emergency Phone Number:	111 - tell operator what service is needed: Fire, Ambulance or Police
Date of SDS Preparation	26 May 2022
	Section 2: HAZARD IDENTIFICATION

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

EPA Approval No:	HSR002485			
Pictograms:				
Signal Word:	Warning			
HSNO Classification	Hazard Code	Hazard Statement	GHS Category	
6.1D (oral)	H302	Harmful if swallowed.	Acute Tox. 4	
6.3B	H316	Causes mild skin irritation.	Skin Irrit. 3	
6.4A	H319	Causes serious eye irritation.	Eye Irrit. 2A	
6.5B	H317	May cause an allergic skin reaction.	Skin Sens. 1	
6.9B	H373	May cause damage to organs through prolonged or repeated exposure.	STOT RE 2	
9.1A	H400	Very toxic to aquatic life.	Aquatic Acute 1	
9.2A	H421	Very toxic to the soil environment.	-	
9.3C	H433	Harmful to terrestrial vertebrates.	-	
Prevention Code	Prevention State	ment		
P102	Keep out of reach	n of children.		
P103	Read label before	e use.		
P260	Do not breathe fumes, vapours and spray.			
P264	Wash hands thoroughly after handling.			
P270	Do not eat, drink or smoke when using this product.			
P272	Contaminated work clothing should not be allowed out of the workplace.			
P273	Avoid release to the environment.			
P280	Wear protective	clothing as detailed in Section 8.		

Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P314	Get medical advice/attention if you feel unwell.
P330	Rinse mouth.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy
	to do. Continue rinsing.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
Storage Code	Storage Statement
None allocated	
Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations or Authorities

Section 3: COMPOSITION INFORMATION

INGREDIENT	CAS No.	CONTENT
Triclopyr (present as the butoxyethyl ester)	64700-56-7	30%
Picloram (present as the amine salt)	1918-02-1	10%
Diethylene glycol monobutyl ether	112-34-5	30-40%
Non hazardous materials		20-30%

Section 4: FIRST AID MEASURES

Routes of Exposure:	
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 on skin:	Remove contaminated clothing and wash affected area thoroughly with soap and water. If skin irritation or rash occurs: Get medical advice/attention.
If ingested:	Never give anything by mouth to an unconscious person. If swallowed DO NOT induce vomiting. For advice, contact the National Poisons Centre on 0800 POISON (0800 764 766). Seek medical assistance immediately.
If inhaled:	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.
Most important symp	toms and effects, both acute and delayed
Symptoms:	
Eyes:	Causes serious eye irritation.
Skin:	Causes mild skin irritation. May cause an allergic skin reaction.
Ingested:	Harmful if swallowed. Amounts as single exposure swallowed incidental to normal handling are unlikely to cause injury. Ingestion of relatively large amounts can result in headaches, nausea, lethargy, motor weakness and lack of co-ordination.
Inhaled:	Not applicable.
Chronic:	May cause damage to organs through prolonged or repeated exposure.
Notes to Doctor:	Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

Hazard Type	Non Flammable
Hazards from combustion products	If involved in a fire, toxic fumes may be emitted.
Suitable Extinguishing media	Water fog, foam, carbon dioxide or dry chemical.
Precautions for firefighters and special protective clothing	Full protective clothing and self-contained breathing apparatus.
HAZCHEM CODE	3Z

Section 6: ACCIDENTIAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Wear appropriate protective clothing as detailed in Section 8. Exclude non-essential people from the area.

Environmental precautions:

Prevent from entering drains, waterways or sewers. If spill does enter waterways contact local authority.

Methods and material for containment and cleaning up:

Contain spill and absorb with inert material such as soil, sand or absorbent granules and place in a sealable waste container. Dispose of waste safely in an approved landfill. Dispose of according to Section 13.

Section 7: HANDLING AND STORAGE

Handling:	Read label before use.
	Avoid contact with skin, eyes and inhalation of spray mist.
	Do not breathe fumes, vapours and spray.
	Wash hands thoroughly after handling.
	Do not eat, drink or smoke when using this product.
	Use only outdoors or in a well-ventilated area.
	Contaminated work clothing should not be allowed out of the workplace.
	Avoid release to the environment.
	Wear protective clothing as detailed in Section 8.
	Record Keeping: Records of use as described in NZS 8409 Management of Agrichemicals must be kept .
Storage:	Keep out of reach of children.
	Store away from incompatible materials listed in Section 10.
	Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs, fertiliser
	and seed.
	Store in accordance with NZS 8409 Management of Agrichemicals
	This product is subject to signage and secondary containment when stored in quantities of 100litres or
	more, either alone or in aggregate with substances of the same hazard classification. More than
	100litres require emergency response plans. For full details refer to NZS 8409 Management of
	Agrichemicals and HSWA Regulations

Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance		TWA ppm	mg/m ³	STEL ppm	mg/m³
Picloram	[1918-02-1]	-	10	-	-

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2019 11TH EDITION.

Engineering Controls: Handle in well ventilated area, natural ventilation is normally adequate. Avoid inhalation of spray mist.

Personal Protection	Equipment:

Eyes:	When opening the container, preparing spray and when contact with concentrate or solution is likely, wear safety goggles.
Skin/Hands:	When opening the container, preparing spray and when contact with concentrate or solution is likely, wear chemically resistant gloves, cotton overalls buttoned to the neck and wrist, and boots.
Respiratory:	Not required.
General:	Do not eat, drink or smoke while using this product. Remove protective clothing and wash hands and
	face before meals and after work. Wash protective clothing daily after work.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES Appearance Liquid Colour Clear brown Odour Faint solvent odour Odour Threshold Not available pH 3.0 – 5.0 Boiling Point Not available Melting Point Not available

Freezing Point	Not available
Flash Point	Not available
Flammability	Not available
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Vapour Density	Not available
Specific Gravity	1.13
Bulk Density	Not available
Water Solubility	Emulsifies in water
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Kinematic Viscosity	Not available
Particle Characteristics	Not available
Other information	(EC) Emulsifiable concentrate
	Section 10: STABILITY AND REACTIVITY
stability of Substance	When stored appropriately this product should show no significant degradation for 2

When stored appropriately this product should show no significant degradation for 2 Stability of Substance years from the date of manufacture. Possibility of hazardous reactions Not available **Conditions to Avoid** None known. **Incompatible Materials** Avoid contact with strong acids and oxidising agents. **Hazardous Decomposition Products** None known.

Section 11: TOXICOLOGICAL INFORMATION

Swallowed	Harmful if swallowed. LD ₅₀ (rat) 803mg/kg for triclopyr butoxyethyl ester, 1061mg/Kg
	for picloram. Amounts as single exposure swallowed incidental to normal handling are
	unlikely to cause injury. Ingestion of relatively large amounts can result in headaches,
	nausea, lethargy, motor weakness and lack of co-ordination.
Dermal	Not triggered. LD ₅₀ (rabbit) >2000mg/kg for triclopyr butoxyethyl ester
Inhalation	Not triggered.LC ₅₀ (rat) (4hr) >4.8mg/l for triclopyr butoxyethyl ester, >0.035mg/L for
	picloram. Solvent content in the concentrate may cause irritation of the eyes and
	respiratory tract. When applying this product avoid inhalation of spray mist.
Eye	Causes serious eye irritation.
Skin	Causes mild skin irritation and may cause an allergic skin reaction.

Chronic Effects

Chronic Effects:		
Carcinogenicity	Not applicable.	
Reproductive Toxicity	Not applicable.	
Germ Cell Mutagenicity	Not applicable.	
Aspiration	Not applicable.	
STOT/SE	Not applicable.	
STOT/RE	May causes damage to organs through repeated or prolonged exposure. Excessive exposure may have adverse effects on liver and kidneys.	

Section 12: ECOLOGICAL INFORMATION

HSNO Classes: 9.1A = Very toxic to aquatic life. 9.2A = Very ecotoxic to the soil environment.

9.3C = Harmful to terrestrial vertebrates.

Product:

Product.		
Persistence and degradabilityRapidly hydrolysed to triclopyr acid in soil and water. Triclopyr has a half-life approximately 40 days depending on temperature and soil type. Leaching n possible on light soils with high rainfall. Picloram is relatively persistent in t an estimated average half-life of 90 days. Picloram is relatively mobile in the		
Bioaccumulation	Triclopyr is excreted via the urinary system as the unchanged compound. Unlikely to bioaccumulate. Picloram does not bioaccumulate in organisms.	
Mobility in Soil	No data available.	
Other adverse effects	Avoid unintended release into streams and waterways.	

Ecotoxicity: Acute Toxicity (fish)

LC₅₀ (bluegill sunfish) (96hr) 0.39mg/l (triclopyr butoxyethyl ester), 39.9mgae/L (picloram) LC₅₀ (rainbow trout) (96hr) 0.65mg/l (triclopyr butoxyethyl ester), 13.7mgae/L (picloram) Acute Toxicity (daphnia)

LC₅₀ (48hr) 12mg/l (triclopyr butoxyethyl ester), EC₅₀ 68.5mgae/L (picloram)

Very toxic to fish and other aquatic organisms

Acute toxicity to birds

LD₅₀ (bobtail quail) 735mg/kg (triclopyr), LD₅₀ (mallard duck) >2510mgae/L (picloram)

Not toxic to birds

Acute toxicity (bees)

LD₅₀ >100µg/bee (triclopyr), >100µg/bee (picloram)

Not toxic to bees

Section 13: DISPOSAL INFORMATION

Disposal Method:	 Triple rinse container and add rinsate to the spray tank. Dispose of product only by using in accordance with label directions, or through Agrecovery Chemical Recovery Service or alternative approved programs.
Container Disposal:	Triple rinsed containers containing the Agrecovery logo on the label and that are free of all residues and have an intact legible label may be taken to an Agrecovery collection site for free recycling. Otherwise crush and bury in an approved landfill. Do not burn. Do not use container for any other purpose.
Precautions or methods to avo	d: Do not allow product or empty container to contaminate any waterway.

Section 14: TRANSPORT INFORMATION

This product is classified as a Dangerous Good for transport in NZ; NZS 5433:2012



Road, Rail, Sea and Air Transport

UN No	3082	
Class - Primary	9	
Packing Group	III	
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (triclopyr 30%, picloram 10%)	
Marine Pollutant	Yes	
Special Provisions	If the product's individual container is below 5L, it can be transported as a non-DG as long as the product packaging is still labelled as per DG requirements and the driver is given safety information in accordance with Chapter 3.4 of the UNRTDG.	

Section 15: REGULATORY INFORMATION

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2017				
EPA Approval Code:	HSR002485			
HSNO Classification:	6.1D(oral), 6.3B, 6.4A, 6.5B, 6.9B, 9.1A, 9.2A, 9.3C			
HSW (HS) Regulations 2017		Trigger Quantity		
Signage Trigger Quantities (Schedule 3)		100L (9.1A)		
Emergency Response Plan (Schedule 5)		100L (9.1A)		
Secondary Containment (Schedule 5)		100L (9.1A)		
Tracking (Schedule 26)		Not required		

HSNO Additional Controls (Restrictions of use)	
77A -	The substance must not be applied onto or into water.
Hazardous Property Controls Notice 2017	

Hazardous Property Control HPC Notice Part 4 Clause 47 Equipment for class 9 substances must be appropriate HPC Notice Part 4 Clause 48 Records of application of class 9 pesticides and plant growth regulators **HPC Notice Part 3** Hazardous substances in a place other than a workplace. HPC Notice Part 4 Subpart A Site and storage controls for class 9 substances HPC Notice Part 4 Subpart C Qualifications required for application of class 9 pesticides.

Not required

Product Name: Eliminate Brushkiller Date of SDS: 26 May 2022

Certified Handlers

SDS Prepared by: Technical Compliance Consultants (NZ) Ltd Tel: 64 9 475 5240 www.techcomp.co.nz

See <u>www.foodsafety.govt.nz</u> for registration conditions **P8397**

Section 16: OTHER INFORMATION

Glossary			
EC50	Median effective concentration.		
EEL	Environmental Exposure Limit.		
EPA	Environmental Protection Authority		
HSNO	Hazardous Substances and New Organisms.		
HSW	Health and Safety at Work.		
LC ₅₀	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.		
LD50	Lethal dose to kill 50% of test animals/organisms.		
LEL	Lower explosive level.		
OSHA	American Occupational Safety and Health Administration.		
TEL	Tolerable Exposure Limit.		
TLV	Threshold Limit Value-an exposure limit set by responsible authority.		
UEL	Upper Explosive Level		
WES	Workplace Exposure Limit		

References:

- 1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
- 2. Workplace Exposure Standards and Biological Exposure Indices Nov 2017 edition.
- 3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
- 4. Transport of Dangerous goods on land NZS 5433:2012
- 5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

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Please contact Ravensdown, if further information is required.

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