

Safety Data Sheet

Eliminate Brushkiller

Revised: March 2016

Section 1: SUBSTANCE IDENTIFICATION AND SUPPLIER

Product Name:	ELIMINATE BRUSHKILLER
Recommended Use:	Selective herbicide for the control of brushweeds and spot treatment of many broadleaf weeds.
Company Identification:	Ravensdown Limited
Address:	292 Main South Road Hornby Christchurch
Customer Centre:	0800 100 123
National Poisons Information Centre:	0800 POISON (0800 764 766)
Emergency Telephone Number:	0800 CHEMCALL (0800 243 622) (24hr) (Emergencies Only)
Transport Emergency:	111

Section 2: HAZARD IDENTIFICATION

Hazard Classifications:	6.1D, 6.3B, 6.4A, 6.5B, 6.9B, 9.1A, 9.2A, 9.3C
Priority Identifiers:	HARMFUL ECOTOXIC
Secondary Identifiers:	6.1D = May be harmful if swallowed, inhaled or absorbed through the skin 6.3B = May cause skin irritation 6.4A = May cause eye irritation 6.5B = May cause skin sensitization from prolonged skin contact 6.9B = May cause organ damage (kidneys & liver) 9.1A = Very toxic to aquatic organisms 9.2A = Very toxic to the soil environment 9.3C = Harmful to terrestrial vertebrates

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

First Aid Measures:	Consult the National Poisons Centre on 0800 POISON (0800 764 766) or a doctor immediately in every case of suspected poisoning.
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 on 0800 POISON (0800 764 766). Seek medical assistance immediately.
Skin:	Remove contaminated clothing and wash affected area thoroughly with soap and water. If a large area is affected seek medical assistance.
Eye:	Flush with plenty of water for 15 minutes holding eyelids open if necessary. Call a doctor
Advice to Doctor:	Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

Flammability:	Not flammable
Hazardous Combustion Products:	If involved in a fire, toxic fumes may be emitted.
Extinguishing Media:	Water fog, foam, carbon dioxide or dry chemical
Protective Equipment:	Full protective clothing and self-contained breathing apparatus
HAZCHEM Code:	2X
Location Certificate:	Not applicable
Hazardous Atmosphere Zone:	Not applicable
Fire Extinguishers:	Not applicable

Section 6: ACCIDENTAL RELEASE MEASURES

Spills and Disposal:	Wear appropriate protective clothing. Exclude non-essential people from the area. 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.
Protective Clothing:	For appropriate personal protective equipment see section 8.
Environmental Precaution:	Prevent from entering drains, waterways or sewers. If spill does enter waterways contact local authority.

Section 7: HANDLING AND STORAGE

Handling:	Keep out of reach of children. Avoid contact with skin, eyes 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 Tracking: Not required Record Keeping: Records of use in accordance with NZS 8409 Management of Agrichemicals must be kept.
Storage:	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 HSNO Regulations (Emergency Management and Identification Regulations).
Other Information:	Always read the label before use. See label for further information on handling and storage.

Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure Limits:	No exposure limits have been assigned for this product by OSHA
Protective Equipment:	When opening the container, preparing spray and when contact with concentrate or solution is likely, wear safety goggles, chemically resistant gloves, cotton overalls buttoned to the neck and wrist, and boots.
Engineering Controls:	Handle in well ventilated area, natural ventilation is normally adequate. Avoid inhalation of spray mist.
Hygiene Precautions:	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:	Clear brown liquid
Odour:	Faint solvent odour
Specific Gravity:	1.13
Solubility in Water:	Emulsifies in water
pH:	3.0-5.0
Other Information:	(EC) Emulsifiable concentrate

Section 10: STABILITY AND REACTIVITY

- Stability:** When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture.
- Hazardous Polymerisation:** Not known to occur.
- Materials to Avoid:** Avoid contact with strong acids and oxidising agents.

Section 11: TOXICOLOGICAL INFORMATION

- Hazard Classifications:** 6.1D, 6.3B, 6.4A, 6.5B, 6.9B.
- Inhalation:** **Acute Inhalation** LC₅₀ (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.
- Ingestion:** **Acute Toxicity (Oral)** LD₅₀ (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.
- Skin:** **Acute Toxicity (Dermal)** LD₅₀ (rabbit) >2000mg/kg for triclopyr butoxyethyl ester
The concentrate may cause skin irritation on prolonged contact. Contact sensitizer.
- Eye:** May cause eye irritation.
- Chronic Effects:** Excessive exposure may have adverse effects on liver and kidneys.
- Reproductive Toxicity:** Data indicates no reproductive effects.
- Mutagenicity:** No mutagenic or teratogenic effects expected.
- Carcinogenicity:** Not considered to be carcinogenic based on results of animal studies.

Section 12: ECOLOGICAL INFORMATION

- Hazard Classifications:** 9.1A, 9.2A, 9.3C
- 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**
- Persistence/Mobility:** Rapidly hydrolysed to triclopyr acid in soil and water. Triclopyr has a half life of approximately 40 days depending on temperature and soil type. Leaching may be possible on light soils with high rainfall. Picloram is relatively persistent in the soil with an estimated average half life of 90 days. Picloram is relatively mobile in the soil.
- Bioaccumulation:** Triclopyr is excreted via the urinary system as the unchanged compound. Unlikely to bioaccumulate. Picloram does not bioaccumulate in organisms.

Section 13: DISPOSAL INFORMATION

- Product Disposal:** Dispose of product only by using according to label or at an approved landfill.
- Container Disposal:** Triple rinse container and add rinsate to spray tank. 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 disposal. Otherwise crush and bury in an approved landfill. Do not use container for any other purpose.

Section 14: TRANSPORT INFORMATION

Transport Information:	It is good practice to separate this product from food, food related materials, animal feedstuffs, seed or fertilisers during transport.
UN Number:	3082
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (triclopyr 30%, picloram 10%)
DG Class:	9
Subsidiary Class:	None
Packing Group:	III
MTQ (non-commercial):	1000L
Marine Pollutant:	Yes
Hazchem Code:	2X
IERG number:	47

Other Information: Do not carry more than 0.1L of this product on a passenger service vehicle.

Check the latest versions of the Land Transport Dangerous Goods Rule 45001 and associated Transport of Dangerous Goods on Land (NZS 5433) for additional information on maximum allowable transport quantities (MTQ's), placarding and segregation. Sea transport may require further segregation.

Section 15: REGULATORY INFORMATION

ACVM: Registered pursuant to the ACVM Act 1997, P8397
See www.foodsafety.govt.nz for registration conditions.

EPA: Approved pursuant to the HSNO Act 1996, Code: HSR002485
See www.epa.govt.nz for approval controls.

Section 16: OTHER INFORMATION

This SDS supersedes all previous versions.

The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material. The information is provided in good faith based on current knowledge and experience. No warranty with regard to the product properties is expressed or implied.