


## Eliminate

### Section 1: SUBSTANCE IDENTIFICATION AND SUPPLIER

|   |   |
|---|---|
| <b>Product Name:</b>                        | <b>ELIMINATE</b>  |
| <b>Product Code:</b>                        | 7957090 (20Lt)  |
| <b>Recommended Use:</b>                     | Selective herbicide for the control of brushweeds                                 |
| <b>Restrictions of Use:</b>                 | Refer to Section 15   |
| <b>Company Identification:</b>              | Ravensdown Limited  |
| <b>Address:</b>                             | 292 Main South Road, Hornby, Christchurch, 8042<br>PO Box 1049, Christchurch 8011 |
| <b>Customer Centre:</b>                     | 0800 100 123  |
| <b>National Poisons Information Centre:</b> | 0800 POISON (0800 764 766)  |
| <b>Emergency Phone Number:</b>              | 0800 CHEMCALL (0800 243 622) (24hr) (Emergencies Only)                            |
| <b>Transport Emergency Phone Number:</b>    | 111 - tell operator what service is needed: Fire, Ambulance or Police             |
| <b>Date of SDS Preparation</b>              | 14 September 2020   |

### Section 2: HAZARD IDENTIFICATION

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

|                         |   |
|-------------------------|---|
| <b>EPA Approval No:</b> | HSR000829   |
| <b>Pictograms:</b>      |  |
| <b>Signal Word:</b>     | <b>Warning</b>  |

| HSNO Classification | Hazard Code | Hazard Statement   | GHS Category    |
|---------------------|-------------|--|-----------------|
| 6.1D (oral)         | H302        | Harmful if swallowed.  | Acute Tox. 4    |
| 6.1D (dermal)       | H312        | Harmful in contact with skin.                                      | Acute Tox. 4    |
| 6.1D (inh)          | H332        | Harmful if inhaled.  | 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 Statement   |
|-----------------|--|
| P102            | Keep out of reach of children.   |
| P103            | Read label before 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.                    |
| P271            | Use only outdoors or in a well-ventilated area.                        |
| 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.  |
| P312             | Call a POISON CENTER or doctor/physician 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.  |
| P304 + P340      | IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.  |
| 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  | 60%        |
| Diethylene glycol ethyl ether                | 111-90-0    | Too volume |
| Emulsifier                                   | Proprietary | <20%       |

### Section 4: FIRST AID MEASURES

|  |  |
|--|--|
| <b>Routes of Exposure:</b>   |  |
| <b>If in eyes:</b>   | 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.   |
| <b>If on skin:</b>   | Remove contaminated clothing and wash affected area thoroughly with soap and water. If skin irritation or rash occurs: Get medical advice/attention.   |
| <b>If ingested:</b>  | 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.          |
| <b>If inhaled:</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>Most important symptoms and effects, both acute and delayed</b> |  |
| <b>Symptoms:</b>   |  |
| <b>Eyes:</b>   | Causes serious eye irritation.   |
| <b>Skin:</b>   | Harmful if in contact with skin. Causes mild skin irritation. May cause an allergic skin reaction.   |
| <b>Ingested:</b>   | Harmful if swallowed. Ingestion of relatively large amounts can result in headaches, nausea, lethargy, motor weakness and in- coordination.  |
| <b>Inhaled:</b>  | Harmful if inhaled.  |
| <b>Chronic:</b>  | May cause damage to organs through prolonged or repeated exposure.   |
| <b>Notes to Doctor:</b>  | No specific antidote. Treat symptomatically. If vomiting is induced, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. |

### Section 5: FIRE FIGHTING MEASURES

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

## Section 6: ACCIDENTAL 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

|                  |   |
|------------------|---|
| <b>Handling:</b> | <p>Read label before use.</p> <p>Avoid contact with skin, eyes and inhalation of spray mist.</p> <p>Read label before use.</p> <p>Do not breathe fumes, vapours and spray.</p> <p>Wash hands thoroughly after handling.</p> <p>Do not eat, drink or smoke when using this product.</p> <p>Use only outdoors or in a well-ventilated area.</p> <p>Contaminated work clothing should not be allowed out of the workplace.</p> <p>Avoid release to the environment.</p> <p>Wear protective clothing as detailed in Section 8.</p> <p>Records of use as described in NZS 8409 Management of Agrichemicals must be kept where more than 3lt of this product is used within 24hrs in a place where the pesticide is likely to enter air or water and leave the place.</p> |
| <b>Storage:</b>  | <p>Keep out of reach of children.</p> <p>Store away from incompatible materials listed in Section 10.</p> <p>Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs, fertiliser and seed.</p> <p>Store in accordance with NZS 8409 Management of Agrichemicals</p> <p>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</p>   |

## Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION

### WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

| Substance | TWA                   | STEL                  |
|-----------|-----------------------|-----------------------|
|           | ppm mg/m <sup>3</sup> | ppm mg/m <sup>3</sup> |

No ingredients have exposure limits

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 11<sup>TH</sup> EDITION.

|                              |   |
|------------------------------|---|
| <b>Engineering Controls:</b> | Handle in well ventilated area. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below exposure limits. Avoid inhalation of spray mist. |
|------------------------------|---|

### Personal Protection Equipment:



|                     |   |
|---------------------|---|
| <b>Eyes:</b>        | When opening the container, preparing spray and when contact with concentrate or solution is likely, wear safety goggles.   |
| <b>Skin/Hands:</b>  | 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. |
| <b>Respiratory:</b> | Not required.   |
| <b>General:</b>     | 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 amber                   |
| Odour                            | Faint solvent odour           |
| Odour Threshold                  | Not available                 |
| pH                               | Not available                 |
| Boiling Point                    | Not available                 |
| Melting Point                    | Not available                 |
| Freezing Point                   | Not available                 |
| Flash Point                      | 95°C                          |
| Flammability                     | Not available                 |
| Upper and Lower Explosive Limits | Not available                 |
| Vapour Pressure                  | Not available                 |
| Vapour Density                   | Not available                 |
| Specific Gravity                 | 1.19                          |
| 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 years from the date of manufacture. |
| Possibility of hazardous reactions | Not available   |
| Conditions to Avoid                | None known.   |
| Incompatible Materials             | Avoid contact with oxidising agents.  |
| Hazardous Decomposition Products   | None known.   |

## Section 11: TOXICOLOGICAL INFORMATION

### Acute Effects:

|            |  |
|------------|--|
| Swallowed  | Harmful if swallowed. LD <sub>50</sub> (rat) 803mg/kg for triclopyr butoxyethyl ester<br>Amounts as single exposure swallowed incidental to normal handling are unlikely to cause injury.<br>Ingestion of relatively large amounts can result in headaches, nausea, lethargy, motor weakness and in- coordination. |
| Dermal     | Harmful if in contact with skin. LD <sub>50</sub> (rabbit) >2000mg/kg for triclopyr butoxyethyl ester  |
| Inhalation | Harmful if inhaled. LC <sub>50</sub> (rat) (4hr) >4.8mg/l for triclopyr butoxyethyl ester<br>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:

|                        |   |
|------------------------|---|
| 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. |

## 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:**

|   |  |
|---|--|
| <b>Persistence and degradability/Mobility in Soil</b> | 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. |
| <b>Bioaccumulation</b>                                | Triclopyr is excreted via the urinary system as the unchanged compound. Unlikely to bioaccumulate. Picloram does not bioaccumulate in organisms.   |
| <b>Other adverse effects</b>                          | Avoid unintended release into streams and waterways.   |

**Ecotoxicity:**

**Acute Toxicity (fish)** (triclopyr butoxyethyl ester)  
 LC<sub>50</sub> (bluegill sunfish) (96hr) 0.39mg/l  
 LC<sub>50</sub> (rainbow trout) (96hr) 0.65mg/l  
**Acute Toxicity (daphnia)** (triclopyr butoxyethyl ester)  
 LC<sub>50</sub> (48hr) 12mg/l

**Very ecotoxic in the aquatic environment**

**Acute Toxicity (birds)**  
 LD<sub>50</sub> (bobtail quail) 735mg/kg

**Non-toxic to birds**

**Acute Toxicity (bees)**  
 LD<sub>50</sub> >100ug/bee

**Non-toxic to bees****Section 13: DISPOSAL INFORMATION**

|                                  |  |
|----------------------------------|--|
| Disposal Method:                 | Triple rinse container and add rinsate to spray tank.  |
| Container Disposal:              | Burn in an appropriate incinerator if circumstance, such as wind direction permit. Otherwise crush and bury in an approved landfill. Do not use container for any other purpose. |
| Precautions or methods to avoid: | Do not allow to enter waterways.   |

**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**

|                             |   |
|-----------------------------|---|
| <b>UN No</b>                | 3082  |
| <b>Class - Primary</b>      | 9   |
| <b>Packing Group</b>        | III   |
| <b>Proper Shipping Name</b> | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Triclopyr 60%)   |
| <b>Marine Pollutant</b>     | Yes   |
| <b>Special Provisions</b>   | 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**

|  |   |
|--|---|
| <b>This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2017</b> |   |
| <b>EPA Approval Code:</b>  | HSR000829   |
| <b>HSNO Classification:</b>  | 6.1D(oral, dermal, inh), 6.3B, 6.4A, 6.5B, 6.9B, 9.1A, 9.2A, 9.3C |
| <b>HSW (HS) Regulations 2017</b>   | <b>Trigger Quantity</b>   |
| 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  |
| Certified Handlers   | Not required  |
| <b>HSNO Additional Controls (Restrictions of use)</b>  |   |
| 77A -  | The substance must not be applied onto or into water.             |

| <b>Hazardous Property Controls Notice 2017</b>   |  |
|--|--|
| 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.           |
| <b>ACVM Act and Regulations</b>  |  |
| See <a href="http://www.foodsafety.govt.nz">www.foodsafety.govt.nz</a> for registration conditions | <b>P7155</b>   |

## Section 16: OTHER INFORMATION

### Glossary

|                  |   |
|------------------|---|
| EC <sub>50</sub> | Median effective concentration.   |
| EEL              | Environmental Exposure Limit.   |
| EPA              | Environmental Protection Authority  |
| HSNO             | Hazardous Substances and New Organisms.   |
| HSW              | Health and Safety at Work.  |
| LC <sub>50</sub> | Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it. |
| LD <sub>50</sub> | 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

This document has been prepared by TCC (NZ) Ltd and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, TCC (NZ) Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

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Please contact Ravensdown, if further information is required.

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14 September 2020

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