

## Pasture Guard MCPA 750

### Section 1: SUBSTANCE IDENTIFICATION AND SUPPLIER

|   |   |
|---|---|
| <b>Product Name:</b>                        | Pasture Guard MCPA 750  |
| <b>Product Code:</b>                        | 7922090 (20 Litres)<br>7922093 (200 Litres)   |
| <b>Recommended Use:</b>                     | Selective herbicide for the control of broadleaf weeds in pasture, cereals and linseed. |
| <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>              | 9 May 2024 v2   |

### Section 2: HAZARD IDENTIFICATION

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

|                         |  |
|-------------------------|--|
| <b>EPA Approval No:</b> | HSR000381  |
| <b>Pictograms:</b>      |  |
| <b>Signal Word:</b>     | DANGER   |

| GHS Classification and Category                           | Hazard Code | Hazard Statement   |
|---|-------------|--|
| Acute oral toxicity Cat. 4                                | H302        | Harmful if swallowed.  |
| Specific target organ toxicity – repeated exposure Cat. 2 | H373        | May cause damage to organs through prolonged or repeated exposure. |
| Serious eye damage Cat. 1                                 | H318        | Causes serious eye damage.   |
| Hazardous to the aquatic environment acute Cat. 1         | H400        | Very toxic to aquatic life.  |
| Hazardous to the aquatic environment chronic Cat. 1       | H410        | Very toxic to aquatic life with long lasting effects.              |
| Hazardous to soil organisms.                              | H421        | Hazardous to soil organisms.                                       |
| Hazardous to terrestrial vertebrates.                     | H432        | Hazardous to terrestrial vertebrates.                              |

| Prevention Code | Prevention Statement                                |
|-----------------|---|
| P102            | Keep out of reach of children.                      |
| P103            | Read carefully and follow all instructions.         |
| P260            | Do not breathe fume, vapours or spray.              |
| P264            | Wash hands thoroughly after handling.               |
| P270            | Do not eat, drink or smoke when using this product. |
| 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.  |
| P310             | Immediately call a POISON CENTER or doctor/physician.  |
| P330             | Rinse mouth.   |
| P391             | Collect spillage.  |
| P301 + P312      | IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.   |
| P305 + P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |

|                     |                          |
|---------------------|--------------------------|
| <b>Storage Code</b> | <b>Storage Statement</b> |
| None allocated      |                          |

|                      |  |
|----------------------|--|
| <b>Disposal Code</b> | <b>Disposal Statement</b>                                |
| P501                 | Dispose of according to Local Regulations or Authorities |

### Section 3: COMPOSITION INFORMATION

| INGREDIENT                              | CAS No.   | CONTENT |
|---|-----------|---------|
| MCPA, present as the dimethylamine salt | 2039-46-5 | 75%     |
| Non hazardous materials                 |           | To 100  |

### 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. Immediately call a POISON CENTER or doctor/physician.   |
| <b>If on skin:</b>   | Take off contaminated clothing. Wash affected area thoroughly with soap and water. If skin irritation occurs: Get medical advice/ attention.   |
| <b>If ingested:</b>  | Rinse mouth. 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>   | Please refer to Section 11 for full details and symptoms.  |
| <b>Eyes:</b>   | Causes eye damage.   |
| <b>Skin:</b>   | Not applicable.  |
| <b>Ingested:</b>   | Harmful if swallowed.  |
| <b>Inhaled:</b>  | Not applicable   |
| <b>Chronic:</b>  | Causes damage to organs (liver) through prolonged or repeated exposure.  |
| <b>Notes to Doctor:</b>  | Treat symptomatically.   |

### Section 5: FIRE FIGHTING MEASURES

|   |  |
|---|--|
| <b>Hazard Type</b>  | Non Flammable  |
| <b>Hazards from combustion products</b>                             | If involved in a fire, may evolve toxic fumes of hydrogen chloride or phosgene |
| <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: 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 according to Section 13.

## Section 7: HANDLING AND STORAGE

|                  |   |
|------------------|---|
| <b>Handling:</b> | <p>Read carefully and follow all instructions.</p> <p>Avoid contact with skin, eyes and inhalation of spray mist.</p> <p>Do not breathe fume, vapours or spray.</p> <p>Wash hands thoroughly after handling.</p> <p>Do not eat, drink or smoke when using this product.</p> <p>Avoid release to the environment.</p> <p>Wear protective clothing as detailed in Section 8.</p> <p>Record Keeping: Records of use in accordance with NZS 8409 Management of Agrichemicals must be kept.</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, fertilizer and seed.</p> <p>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 requires 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)

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

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 2023 14<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> | Wear respiratory protection in areas of poor ventilation.   |
| <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

|                        |                |
|------------------------|----------------|
| <b>Appearance</b>      | Liquid         |
| <b>Colour</b>          | Light brown    |
| <b>Odour</b>           | Phenolic Odour |
| <b>Odour Threshold</b> | Not available  |
| <b>pH</b>              | 8.0 – 10.0     |
| <b>Boiling Point</b>   | Not available  |
| <b>Melting Point</b>   | Not available  |
| <b>Freezing Point</b>  | Not available  |
| <b>Flash Point</b>     | Not available  |
| <b>Flammability</b>    | Non Flammable  |

|   |                     |
|---|---------------------|
| <b>Upper and Lower Explosive Limits</b> | Not available       |
| <b>Vapour Pressure</b>                  | Not available       |
| <b>Vapour Density</b>                   | Not available       |
| <b>Specific Gravity</b>                 | 1.130 – 1.140       |
| <b>Water Solubility</b>                 | Soluble in water    |
| <b>Partition Coefficient:</b>           | Not available       |
| <b>Auto-ignition Temperature</b>        | Not available       |
| <b>Decomposition Temperature</b>        | Not available       |
| <b>Kinematic Viscosity</b>              | Not available       |
| <b>Particle Characteristics</b>         | Not available       |
| <b>Other information</b>                | (SL) Soluble Liquid |

### Section 10: STABILITY AND REACTIVITY

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

### Section 11: TOXICOLOGICAL INFORMATION

#### Acute Effects:

|                   |  |
|-------------------|--|
| <b>Swallowed</b>  | Harmful if swallowed. LD <sub>50</sub> (rat) 700 - 1160mg/kg (MCPA)  |
| <b>Dermal</b>     | Not triggered. LD <sub>50</sub> (rabbit) >4000mg/kg (MCPA)   |
| <b>Inhalation</b> | Not triggered. LC <sub>50</sub> (rat) (4hr) >6.36mg/L (MCPA)<br>Single exposure to vapours is unlikely to be hazardous. When applying this product avoid inhalation of spray mist. |
| <b>Eye</b>        | May cause severe irritation and corneal injury, resulting in permanently impaired vision.  |
| <b>Skin</b>       | Prolonged contact with the skin may cause irritation.  |

#### Chronic Effects:

|                               |  |
|-------------------------------|--|
| <b>Carcinogenicity</b>        | Not triggered.   |
| <b>Reproductive Toxicity</b>  | Animal studies have shown some effects to reproduction including toxicity to the foetus and effects to sperm and the testes. These are not likely to be apparent in humans under normal exposure conditions. |
| <b>Germ Cell Mutagenicity</b> | Not triggered.   |
| <b>Aspiration</b>             | Not triggered.   |
| <b>STOT/SE</b>                | Not triggered.   |
| <b>STOT/RE</b>                | Causes damage to organs through prolonged or repeated exposure.  |
| <b>Chronic Effects</b>        | Excessive exposure may have adverse effects on liver and kidneys.  |

### Section 12: ECOLOGICAL INFORMATION

Very toxic to aquatic life with long lasting effects.

Hazardous to soil organisms.

Hazardous to terrestrial vertebrates.

|   |  |
|---|--|
| <b>Product:</b>                               |  |
| <b>Persistence and degradability/Mobility</b> | Relatively high water solubility. Microbial degradation is the major cause of loss from the soil.<br>Half-life 14-28days |
| <b>Bioaccumulation</b>                        | MCPA does not bioaccumulate.   |
| <b>Other adverse effects</b>                  | Avoid unintended release into streams and waterways.   |


**Ecotoxicity:****Acute Toxicity (fish)**LC<sub>50</sub> (rainbow trout) (96hr) 4.3mg/l (MCPB), 50-560mg/L (MCPA)**Acute Toxicity (daphnia)**LC<sub>50</sub> (48hr) 55mg/l (MCPB), >100mg/L (MCPA)**Acute Toxicity (birds) (MCPA)**LD<sub>50</sub> (bobtail quail) 377mg/kg

Non-toxic to birds

**Acute Toxicity (bees) (MCPA)**LD<sub>50</sub> 0.104mg/bee

Non-toxic to bees

**Section 13: DISPOSAL INFORMATION**

|                                  |  |
|----------------------------------|--|
| Disposal Method:                 | Triple rinse container and add rinsate to the spray tank.<br>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 avoid: | 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 5433:2020

**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. (MCPA 75%)   |
| Marine Pollutant     | Yes  |
| Hazchem Code         | 3Z   |
| 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: HSR000381

| HSW (HS) Regulations 2017                      | Trigger Quantity                                      |
|--|---|
| Signage Trigger Quantities (Schedule 3)        | 100L  |
| Emergency Response Plan (Schedule 5)           | 100L  |
| Secondary Containment (Schedule 5)             | 100L  |
| Tracking (Schedule 26)                         | Not required  |
| Certified Handlers                             | Not required  |
| Location Certificate                           | Not required  |
| HSNO Additional Controls (Restrictions of use) |   |
| 77A -  | The substance must not be applied onto or into water. |

**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 2023 14th edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2020
5. HSW (Hazardous Substances) Regulations 2017

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Please contact Ravensdown, if further information is required.

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