# Safety Data Sheet

# Pasture Guard Bentazone

## Section 1: SUBSTANCE IDENTIFICATION AND SUPPLIER

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|---|---|
| **Product Name:** | **Pasture Guard Bentazone** |
| **Product Code:** | 7937090 (20 Litres) |
| **Recommended Use:** | A selective post-emergence herbicide for use on onions, cereals, clover and grass seed crops, pasture, potatoes, soya beans, peas, lucerne and turf. |
| **Restrictions of Use:** | Refer to Section 15 |
| **Company Identification:** | Ravensdown Limited |
| **Address:** | 292 Main South Road, Hornby, Christchurch, 8042<br>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** | 9 May 2024 v2 |

## Section 2: HAZARD IDENTIFICATION

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

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|---|---|
| **EPA Approval No:** | HSR100861 |
| **Pictograms:** |  |
| **Signal Word:** | **Warning** |

| GHS Classification and Category | Hazard Code | Hazard Statement |
|---|---|---|
| Eye irritation Cat. 2 | H319 | Causes serious eye irritation. |
| Skin sensitisation Cat. 1 | H317 | May cause an allergic skin reaction. |
| Hazardous to the aquatic environment chronic Cat. 3 | H412 | Harmful to aquatic life with long lasting effects. |

| Prevention Code | Prevention Statement |
|---|---|
| P103 | Read carefully and follow all instructions. |
| P261 | Avoid breathing fumes, vapours or spray. |
| P264 | Wash hands thoroughly after handling. |
| 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. |
| P362 + P364 | Take off contaminated clothing and wash before reuse. |
| 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 |
|---|---|---|
| Bentazone | 25057-89-0 | 48% |
| Non hazardous materials | | To 100 |

## 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:** | Take off contaminated clothing and wash before reuse. Wash affected area thoroughly with soap and water. If skin irritation or rash occurs: Get medical advice/ attention. |
| **If ingested:** | 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. |
| **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 symptoms and effects, both acute and delayed** | |
| **Symptoms:** | Please refer to Section 11 for full details and symptoms. |
| **Eyes:** | Causes serious eye irritation. |
| **Skin:** | May cause an allergic skin reaction. |
| **Ingested:** | Not applicable |
| **Inhaled:** | Not applicable |
| **Chronic:** | Not applicable |
| **Notes to Doctor:** | No specific antidote so treat symptomatically. If vomiting is induced, suggest endotracheal and/or oesophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. |

## Section 5: FIRE FIGHTING MEASURES

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| **Hazard Type** | Non Flammable |
| **Hazards from combustion products** | None known. |
| **Suitable Extinguishing media** | Based on surrounding materials. |
| **Precautions for firefighters and special protective clothing** | Full protective clothing and self-contained breathing apparatus plus gloves. |
| **HAZCHEM CODE** | **None allocated** |

## 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

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| **Handling:** | Read carefully and follow all instructions.<br>Avoid contact with skin, eyes and inhalation of spray mist.<br>Avoid breathing fumes, vapours or spray.<br>Contaminated work clothing should not be allowed out of the workplace.<br>Avoid release to the environment.<br>Wear protective clothing as detailed in Section 8.<br>Do not eat, drink or smoke while using this product.<br>Wash hands and face thoroughly after handling and before smoking, eating, drinking or using the toilet.<br>Remove protective clothing and wash hands and face before meals and after work.<br>Use personal protective equipment as required. |
| **Storage:** | Keep out of reach of children. |

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|---|---|
| | Store away from incompatible materials listed in Section 10.<br>Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs, fertiliser, seed.<br>Store in accordance with NZS 8409 Management of Agrichemicals. This product is subject to signage and secondary containment when stored in quantities of 1000litres or more, either alone or in aggregate with substances of the same hazard classification. More than 1000litres requires emergency response plans. For full details refer to NZS 8409 Management of Agrichemicals and HSNO Regulations (Emergency Management and Identification Regulations). |

## Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION

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

| | TWA | | STEL | |
|---|---|---|---|---|
| **Substance** | **ppm** | **mg/m³** | **ppm** | **mg/m³** |

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 14TH EDITION.

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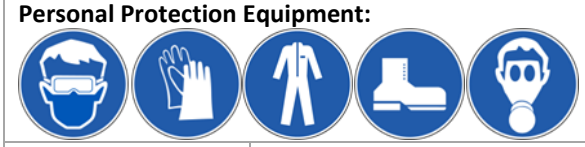
| **Engineering Controls:** | Ensure ventilation is adequate and that airborne levels below exposure limits. If inhalation risk exists (dusts, mists, sprays) use process enclosures, local exhaust ventilation or other engineering controls while wearing suitable mist respirator. Keep containers closed when not in use. |

**Personal Protection Equipment:**



| | |
|---|---|
| **Eyes:** | Wear safety goggles/ full face mask/shield. |
| **Skin/Hands:** | Wear overalls, elbow-length impervious gloves, chemically resistant gloves, impermeable/splash apron and rubber boots and chemical resistant suit worn over cotton overalls. Cotton overalls should be buttoned to the neck and wrist. |
| **Respiratory:** | If inhaled risk exists, wear air-supplied mask meeting the requirements of AS/NZS 1715 and AS/NZS 1716. |
| **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. Eye wash facilities and safety shower should be available. |

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

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|---|---|
| **Appearance** | Liquid |
| **Colour** | Clear brown |
| **Odour** | Faint Odour |
| **Odour Threshold** | Not available |
| **pH** | 6.5 – 9.2 |
| **Boiling Point** | $100^0$C |
| **Melting Point** | $100^0$C |
| **Freezing Point** | Not available |
| **Flash Point** | Not available |
| **Flammability** | Non Flammable |
| **Upper and Lower Explosive Limits** | Not available |
| **Vapour Pressure** | Not available |
| **Vapour Density** | Not available |
| **Specific Gravity** | 1.19 – 1.25 |
| **Water Solubility** | Completely soluble 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** | (SL) Soluble Liquid |

## Section 10: STABILITY AND REACTIVITY

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| **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** | None known. |
| **Hazardous Decomposition Products** | None known. |

## Section 11: TOXICOLOGICAL INFORMATION

**Acute Effects:**

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|---|---|
| **Swallowed** | Not triggered. $LD_{50}$ (rat) > 2,000mg/kg |
| **Dermal** | Not triggered. $LD_{50}$ (rat) > 4,000mg/kg |
| **Inhalation** | Not triggered. $LC_{50}$ (rat) > 5.1mg/L (4hours) for bentazone |
| **Eye** | Causes severe eye irritation. |
| **Skin** | May cause an allergic skin reaction. |

**Chronic Effects:**

| | |
|---|---|
| **Carcinogenicity** | Not triggered. |
| **Reproductive Toxicity** | Not triggered. |
| **Germ Cell Mutagenicity** | Not triggered. |
| **Aspiration** | Not triggered. |
| **STOT/SE** | Not triggered. |
| **STOT/RE** | Not triggered. |
| **Chronic Effects** | Not triggered. |

## Section 12: ECOLOGICAL INFORMATION

Harmful to aquatic life with long lasting effects.

**Product:**

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| **Persistence and degradability/Mobility** | No data available. |
| **Bioaccumulation** | Bioaccumulation unlikely to occur. |
| **Other adverse effects** | Avoid unintended release into streams and waterways. |

**Ecotoxicity:** $LC_{50}$ (96 hr) for rainbow trout is >250 mg/L
$EC_{50}$ (48hr) for daphnia magna is >248 mg/L

**Acute Toxicity - Bird**

$LD_{50}$ for bobwhite quail is 1140 mg/kg for Bentazone

**Acute Toxicity - Other Organisms**

$LD_{50}$ for bees is >200 µg/bee
$LC_{50}$ for earthworms is >870 mg/kg dry weight substrate

## Section 13: DISPOSAL INFORMATION

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| 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 NOT classified as a Dangerous Good for transport in NZ; NZS 5433:2020**

## Section 15: REGULATORY INFORMATION

| | |
|---|---|
| **This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020** | |
| **EPA Approval Code:** | HSR100861 |

| HSW (HS) Regulations 2017 | Trigger Quantity |
|---|---|
| Signage Trigger Quantities (Schedule 3) | 1000L |
| Emergency Response Plan (Schedule 5) | 1000L |
| Secondary Containment (Schedule 5) | 1000L |
| 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. |
| **ACVM Act and Regulations** | |
| See www.foodsafety.govt.nz for registration conditions **P9018** | |

## Section 16: OTHER INFORMATION

### Glossary

| | |
|---|---|
| $EC_{50}$ | 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. |
| $LD_{50}$ | 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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