


## Pasture Guard Elite

### Section 1: SUBSTANCE IDENTIFICATION AND SUPPLIER

<b>Product Name:</b>	Pasture Guard Elite
<b>Product Code:</b>	7924090 (20 Litres)
<b>Recommended Use:</b>	Selective herbicide for the control of thistles and other broadleaf weeds in new and established pastures, clover, cereals and peas.
<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 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>	27 November 2020

### Section 2: HAZARD IDENTIFICATION

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

<b>EPA Approval No:</b>	HSR000374
<b>Pictograms:</b>	
<b>Signal Word:</b>	Warning

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
6.1E (oral)	H303	May be harmful if swallowed.	Acute Tox. 5
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
6.8B	H361	Suspected of damaging fertility or the unborn child.	Repr. 2
6.9B	H373	May cause damage to organs through prolonged or repeated exposure.	STOT RE 2
9.1B	H411	Toxic to aquatic life with long lasting effects.	Aquatic Chronic 2
9.2B	H422	Toxic to the soil environment.	

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read label before use.
P260	Do not breathe 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.
P281	Use personal protective equipment as required.

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.
P363	Wash contaminated clothing before reuse.

P391	Collect spillage.
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.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.

<b>Storage Code</b>	<b>Storage Statement</b>
P405	Store locked up.

<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
MCPB (sodium salt)	94-81-5	20%
BENTAZONE (sodium salt)	25057-89-0	20%
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. If eye irritation persists: Get medical advice/attention.
<b>If on skin:</b>	Take off contaminated clothing and wash before re-use. 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 serious eye irritation.
<b>Skin:</b>	Causes mild skin irritation. May cause an allergic skin reaction.
<b>Ingested:</b>	May be harmful if swallowed.
<b>Inhaled:</b>	Not applicable
<b>Chronic:</b>	May cause damage to organs through prolonged or repeated exposure. Suspected of damaging fertility or the unborn child.
<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 carbon dioxide, carbon monoxide, hydrogen chloride and nitrogen oxides, chlorine compounds.
<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 label before use.</p> <p>Avoid contact with skin, eyes and inhalation of spray mist.</p> <p>Do not breathe fumes, vapours or spray.</p> <p>Wash hands thoroughly after handling.</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>Use personal protective equipment as required.</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 locked up.</p> <p>Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs, fertiliser, 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 1000litres or more, either alone or in aggregate with substances of the same hazard classification. More than 1000litres requires emergency response plans.</p> <p>For full details refer to NZS 8409 Management of Agrichemicals and HSNO Regulations (Emergency Management and Identification Regulations).</p>

## Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION

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

Substance	TWA ppm mg/m <sup>3</sup>	STEL ppm mg/m <sup>3</sup>
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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.
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#### 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>	Clear brown
<b>Odour</b>	Slight Phenolic
<b>Odour Threshold</b>	Not available
<b>pH</b>	7 - 9
<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

Vapour Density	Not available
Specific Gravity	1.16 – 1.18
Water Solubility	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

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 strong acids and oxidising agents.
Hazardous Decomposition Products	None known.

### Section 11: TOXICOLOGICAL INFORMATION

#### Acute Effects:

Swallowed	May be harmful if swallowed. LD <sub>50</sub> (rat) 690mg/kg (MCPB), >2000mg/Kg (bentazone)
Dermal	Not triggered. LD <sub>50</sub> (rabbit) >2000mg/kg (MCPB), >4000mg/kg (bentazone, rat)
Inhalation	Not triggered. LC <sub>50</sub> (rat) (4hr) >1.14mg/L (MCPB), >5.5mg/L (bentazone) Single exposure to vapours is unlikely to be hazardous. When applying this product avoid inhalation of spray mist.
Eye	Causes severe eye irritation.
Skin	Causes mild skin irritation. May cause an allergic skin reaction. Prolonged contact with the skin may cause irritation or sensitisation.

#### Chronic Effects:

Carcinogenicity	Not triggered.
Reproductive Toxicity	Suspected of damaging fertility or the unborn child. Animal studies have shown some effects to reproduction including toxicity to the foetus and effects to the sperm and testes at high doses. These are not likely to be apparent in humans under normal exposure conditions.
Germ Cell Mutagenicity	Not triggered.
Aspiration	Not triggered.
STOT/SE	Not triggered.
STOT/RE	May cause damage to organs through prolonged or repeated exposure.
Chronic Effects	Excessive exposure may have adverse effects on liver and kidneys.

### Section 12: ECOLOGICAL INFORMATION

HSNO Classes: 9.1B = Toxic aquatic life.  
9.2B = Toxic to the soil environment.

#### Product:

Persistence and degradability/Mobility	High mobility in soil. Microbial degradation is the major cause of loss from the soil for MCPB. Bentazone is subject to rapid breakdown by UV light, and soil bacteria and fungi. Half-life 5-7days (MCPB) and <14 days (bentazone)
Bioaccumulation	MCPB does not bioaccumulate, bentazone is rated as having a low bioaccumulation potential.
Other adverse effects	Avoid unintended release into streams and waterways.

#### Ecotoxicity:

##### Acute Toxicity (fish)

LC<sub>50</sub> (rainbow trout) (96hr) 4.3mg/L (MCPB), >100mg/L (bentazone)

##### Acute Toxicity (daphnia)

LC<sub>50</sub> (48hr) 55mg/l (MCPB), 125mg/L (bentazone)

**Very toxic to fish and other aquatic organisms**

### Section 13: DISPOSAL INFORMATION

Disposal Method:	Triple rinse container and add rinsate to spray tank.
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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.
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

UN No	3082
Class - Primary	9
Packing Group	III
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (MCPB 20%, bentazone 20%)
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:	HSR000374
HSNO Classification:	6.1E(oral), 6.3B ,6.4A, 6.5B, 6.8B, 6.9B, 9.1B, 9.2B

HSW (HS) Regulations 2017	Trigger Quantity
Signage Trigger Quantities (Schedule 3)	1000L (9.1B)
Emergency Response Plan (Schedule 5)	1000L (9.1B)
Secondary Containment (Schedule 5)	1000L (9.1B)
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.

Hazardous Property Controls Notice 2017	
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 4 Subpart A	Site and storage controls for class 9 substances
HPC Notice Part 3	Hazardous substances in a place other than a workplace.

ACVM Act and Regulations	
See <a href="http://www.foodsafety.govt.nz">www.foodsafety.govt.nz</a> for registration conditions <b>P8376</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

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Please contact Ravensdown, if further information is required.

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