

1. PRODUCT & COMPANY IDENTIFICATION

Product Name	PastureMate
Recommended Use	Herbicide
Suppliers Details	Rainbow & Brown Limited 68 & 68A Tallyho Street, Rotorua, New Zealand PO Box 10049, Mail Centre, Rotorua, 3046
Web Address	www.rainbowbrown.co.nz
Email address	mail@rainbowbrown.co.nz
Telephone	(07) 350 2009 (office hours), 0508 299 299 (free phone, office hours)
Emergency Telephone	0800 CHEMCALL (0800 243 622) (24 hours)
National Poison Centre	0800 POISON (0800 764 766) (24 hours)
Date of Issue	23 January 2026
Expiry Date	23 January 2031

2. HAZARD IDENTIFICATION

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

EPA Approval No	HSR000726
Hazard Pictograms	
Signal Word	WARNING

GHS Classification & Category	HSNO Classification	Hazard Code	Hazard Statement
Acute (oral) toxicity, Category 4	6.1D	H302	Harmful if swallowed
Eye irritation, Category 2	6.4A	H319	Causes serious eye irritation
Reproductive toxicity, Category 2	6.8B	H361	Suspected of damaging fertility of the unborn child
Specific target organ toxicity (repeated exposure), Category 2	6.9B	H373	May cause damage to organs through prolonged or repeated exposure
Hazardous to soil organisms			

Hazardous to terrestrial vertebrates			
Hazardous to the aquatic environment (acute) Category 1	9.1A	H400	Very toxic to aquatic life
Hazardous to the aquatic environment (chronic) Category 1	9.1A	H410	Very toxic to aquatic life with long lasting effects

Prevention Code	Prevention Statement
P201	Obtain special instruction before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash contacted area thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Avoid contact with eyes and skin. Do not breathe in spray mist. When applying, wear personal protection as described in section 8. Take all reasonable steps to ensure that this product does not cause any significant adverse effects to the environment beyond the application area. Do not apply directly into or onto water.

Response Code	Response Statement
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.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P310	Immediately call a POISON CENTER or doctor/physician.
P330	Rinse mouth.
P391	Collect spillage

First aid measures described in section 4. Contain and collect spillage for disposal. In an emergency call 111, Police or Fire Brigade. For specialist advice in an emergency only, call 0800 CHEMCALL (0800 243 6225) (24 hrs).

Storage Code	Storage Statement
P405	Store locked up

Disposal Code	Disposal Statement
P501	In accordance with the EPA Hazardous Substances (Disposal) Notice 2017. Refer to Section 13 of this SDS.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS Number	Concentration (%w/v)
MCPB (as sodium salt)	94-81-5	37.5%
MCPA (as sodium salt)	94-74-6	2.5%
Inert ingredients	Secret	To 100%

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non-hazardous ingredients are also possible.

4. FIRST-AID MEASURES

If medical advice is needed, have product container or label at hand. For advice call the National Poisons Centre or a Doctor.

Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if easy to do so. Continue rinsing. Seek medical advice if irritation persists.
Skin	Wash with plenty of soap and water. Seek medical advice if irritation or rash occurs.
Ingestion	If swallowed, do NOT induce vomiting. Seek medical advice or contact Poisons Information Centre (Ph 0800 POISON – 0800 764 766).
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.
Workplace Facilities	Hand wash facility. Eye wash facility.
Advice to Doctor	Treat symptomatically.
National Poison Centre	0800 POISON (0800 764 766) (24 hours)

5. FIRE-FIGHTING MEASURES

Extinguishing Media	Water fog, foam, CO ₂ or dry chemical
Fire & Explosion Hazards	May produce irritating vapours under fire conditions. Combustible liquid. Breathable air apparatus may be required in confined spaces.
Fire Fighting Instructions	Wear full protective clothing and self-contained breathing apparatus. Keep upwind. Contain runoff.
Hazchem Code	2X
ERP Guide No	47

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear protective clothing as described in section 8. Do not inhale fumes. Exclude non-essential people from the area.
Environmental Precautions	Prevent further spillage or leakage. Prevent material from entering drains, waterways, etc.
Clean Up	Contain spill and absorb with sand, soil or absorbent granules. If spill does enter waterways contact the local authority. Collect in an appropriate sealable container for disposal in an approved landfill.

7. HANDLING AND STORAGE

Storage	Keep out of reach of children. Store under lock and key, in original container, tightly closed, away from human and animal foodstuffs, medicines and remedies, seeds and fertilisers. Segregate from incompatible hazardous substances (Classes 1, 4 & 5). Store in a cool, dry, well-ventilated place and protect from sunlight. All aspects of storage, handling, use, disposal and record keeping must be in accordance with NZS 8409:2021 'Management of Agrichemicals', and relevant local and regional council plans.
Handling and Use & Handler Competence	Avoid contact with skin and eyes and inhalation of concentrate or spray mist. When using, do not eat, drink or smoke. Wash face and hands before eating, drinking or smoking. Persons responsible for the storage, handling, mixing, applying or disposing of this product must be trained, experienced or supervised in accordance with requirements for class 6 and 9 substances of the Health and Safety at Work (Hazardous Substances) Regulations 2017 part 4.5 and the Hazardous Substances (Hazardous Property Controls) Notice 2017 Part 4 Subpart C.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

Tolerable Exposure Limit	None established
Workplace Exposure Standards	None
Engineering Controls	Handle in well-ventilated areas only. Product is used outdoors. Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated. The extent of these protection measures depends on the actual risks in use. If airborne mists or vapours are generated, use respiratory protection to a minimum of Organic Vapour cartridge type and/or local exhaust ventilation controls. Assess exposure and use any additional measures to keep airborne levels below any relevant exposure limit. Follow precaution statements on the label and the use and safety directions in Code of Practice for the Management of Agrichemical NZS8409.

Personal Protection	
Respiratory	NIOSH approved half face mask with organic vapour cartridge and dust/mist prefilter
Skin	Cotton overalls snugly fitting at the neck, wrist and ankle, boots and gloves
Eye	Safety glasses/goggles when applying

Clean protective equipment after use

9. PHYSICAL & CHEMICAL PROPERTIES

Appearance	Clear brown colour
Odour	Slight ammoniacal odour
Odour Threshold	Property does not apply
pH	10 - 12
Melting Point/Freezing Point	NA
Boiling Point	Property does not apply
Flash Point	Property does not apply
Flammability	Non-flammable
Upper/Lower Flammability	Property does not apply
Vapour Pressure	Property does not apply
Vapour Density	Property does not apply
Relative/Specific Gravity	1.14
Water Solubility	Soluble
Partition Coefficient: n-octanol/water	LogP=1.32(low) for MCPB LogP=-0.81(low) for MCPA
Auto-ignition Temperature	Property does not apply
Decomposition Temperature	Property does not apply
Kinematic Viscosity	Property does not apply
Particle Characteristics	Property does not apply

10. STABILITY & REACTIVITY

Stability	Stable under normal conditions.
Hazardous Reactions	No
Incompatibility	Strong acids and bases, oxidizing agents.

Hazardous Decomposition Products	Hazardous polymerisation will not occur
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11. TOXOLOGICAL INFORMATION

This section describes effects which could occur if this material is not handled in accordance with this data sheet and label instructions.

Toxicology Information	No specific toxicological data is available for this product. Data below Information is for the similar composition.
Acute Oral Toxicity	LD50 (rats) > 300 mg/kg
Acute Dermal Toxicity	LD50 (rabbit) > 5000 mg/kg
Acute Inhalation Toxicity	LC50 (4h) (rats) 5 mg/L
Skin corrosion/irritation	None
Serious eye damage/eye irritation	This product causes serious eye irritation
Respiratory or skin sensitisation	Not a sensitizer
Germ Cell Mutagenicity	Information not available
Carcinogenicity	Information not available
Reproductive Toxicity	Extended animal feeding studies on MCPB have found changes such as decreased testes size and spermatogenic activity, tubular atrophy, and prostrate atrophy
Specific Organ Toxicity – Single exposure	Information not available
Specific Organ Toxicity – Repeated exposure	Extended animal feeding studies on MCPA and MCPB have found effects on alimentary system, liver and kidney.
Aspiration Hazard	Information not available

12. ECOLOGICAL INFORMATION

This section describes effects which could occur if this material is not handled in accordance with this data sheet and label instructions

The following information is presented in respect of the active ingredient:	
Ecotoxicity	- MCPB - Acute Oral LD50 (Bobwhite quail) 282mg/kg - LC⁵⁰ (96hr) (rainbow trout) 4.3mg/l - EC⁵⁰ (48hr) (daphnia) 55 mg/l - EC⁵⁰ (120hr) (Algae) 0.42mg/l - Non-toxic to bees - MCPA - Acute Oral LD50 Bobwhite quail 377mg/kg - LC⁵⁰ (96hr) (rainbow trout) 232mg/l - EC⁵⁰ (120hr) (algae) >392mg/l

	Non-toxic to bees
Persistence & Degradability	Biodegradable: DT50 (soil) for MCPB 7 days Biodegradable: DT50 (soil) for MCPA 24 days
Bioaccumulation	Octanol water partition coefficient: LogP=1.32(low) for MCPB LogP=-0.81(low) for MCPA
Mobility in Soil	Information is not available for MCPB or MCPA
Environmental Exposure Limit	None established

13. DISPOSAL CONSIDERATIONS

Product	Dispose of this product only by using according to the label, or at an approved hazardous substance waste receival facility or other approved waste transfer station/facility.
Container	Triple rinse empty container and add residue to spray tank. Recycle empty container through Agrecovery (0800 247 326, www.agrecovery.co.nz). Otherwise, submit to local authority refuse receival facility. Do not burn. DO NOT reuse this container for any other purpose.

14. TRANSPORT INFORMATION

Dangerous Goods	
UN Number	3082
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains MCPB and MCPA)
Class	9
Subsidiary Class	None
Packing Group	III
Additional Information	Marine Pollutant
MTQ (Non-Commercial)	250L

15. REGULATORY INFORMATION

ACVM Registration No.	P010431
EPA Approval No	HSR000726
Qualified Person	Not required
Certified Handler	Yes

Workplace Only	No
Location Certificate	Not required
Tracking	Not required
Record Keeping	Yes – if more than 3L of PastureMate are used within 24 hours in a place where members of the public may be present or where the substance may enter air or water and leave the place.
Signage	100L
Emergency Response Plan	100L
Secondary Containment	100L
Additional Requirements	Keep Locked Up. Refer to NZS 8409:2004 'Management of Agrichemicals', and relevant local and regional council plans

16. OTHER INFORMATION

SDS review Date	23 January 2026
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Glossary

ACVM	Agricultural Compounds and Veterinary Medicines group of the Ministry of Primary Industries
DT₅₀	Time (days) for 50% reduction in concentration
EC₅₀	Concentration required to produce an effect in 50% of organisms
Environmental Exposure Limit	Maximum concentration limit of a substance in an environmental medium e.g. water, soil.
EPA Notice	Hazardous Property Controls Notice 2017
ERP Guide	Dangerous Goods – Initial Emergency Response Guide SNZ HB
GHS	Globally Harmonised System
HSNO	Hazardous Substances & New Organisms Act
Koc	Organic carbon partition coefficient
LFL	Lower Flammability Limit
LC₅₀	Lethal Concentration in air or water for 50% of test organisms
LD₅₀	Lethal Dose for 50% of test organisms
NOEL	No Observable Effect Level
OSHA	Occupational Safety & Health Administration (USA)
OSH or WorkSafe	WorkSafe New Zealand

PEL	Permissible Exposure Level
Pow	Octanol water partition coefficient (ratio of concentration of a chemical in octanol and water at equilibrium and at a specified temp.)
pH	Measure of acidity/alkalinity of a substance on a 1-14 scale (1=strong acid, 14 = strongly alkali)
STEL	Short Term Exposure Limit
TEL	Tolerable Exposure Limit
TLV	Threshold Limit Value – an exposure limit set by a competent authority
TWA	Time Weighted Average – average concentration of a chemical in air over a total exposure time (usually 8 hours)
UFL	Upper Flammability Limit
WES	Workplace Exposure Standard – set by WorkSafe NZ

Rainbow & Brown Ltd Safety Data Sheet Disclaimer

This Safety Data Sheet has been prepared by Rainbow & Brown Ltd and summarises information on this product and safe handling procedures. The information is based on data provided to Rainbow & Brown Ltd or obtained from third-party sources and represents the current understanding of appropriate safety and handling precautions at the time of issue.

Users must ensure they are working with the most current version of this SDS and should familiarise themselves with both the product label and this document. Each user should consider this information in the context of their specific handling and use of the product, including when used in conjunction with other products.

While Rainbow & Brown Ltd has exercised due care to include accurate and up-to-date information, no warranty is provided as to the accuracy, completeness, or suitability of this information. Users are responsible for determining whether this information is suitable and accurate for their particular purposes and specific applications.

For additional clarification regarding any aspect of the product or to ensure an appropriate risk assessment can be conducted, users should contact Rainbow & Brown Ltd directly or obtain further information from the manufacturer. To the fullest extent permitted by law, Rainbow & Brown Ltd accepts no liability for any loss, injury, or damage (including consequential loss) that may result from reliance on the information contained in this SDS. This information is provided in good faith, but no express or implied warranty is made.