


Granny Herbicide

1. PRODUCT & COMPANY IDENTIFICATION

Product Identification/Name:	Granny Herbicide
Product Use:	Herbicide
Company Identification:	Rainbow & Brown Limited 68A Tallyho Street, Rotorua, New Zealand PO Box 10049, Mail Centre, Rotorua, 3046
Telephone:	+64 7 350 2009
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Toll-Free Phone:	0508 299 299
After Hours Emergency	+64 27 498 2574
National Poisons Centre	0800 764 766
Website:	www.rainbowbrown.co.nz
Date of Issue:	14 January 2019
Latest Revision Date:	14 January 2019

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture (HSNO):	8.3A – Eye corrosive 9.1B – Toxic to aquatic life with long lasting effects
Classification of the substance or mixture (GHS):	Serious eye damage/eye irritation Category 1 Aquatic toxicity (chronic) Category 2
Label Elements:	
Pictogram	
Signal Word	DANGER
Hazard Statements	H318 Causes serious eye damage H411 Toxic to aquatic life with long lasting effects
Precautionary Statements	

Prevention:	P280 – Wear eye protection/face protection. P273 – Avoid release to the environment.
Response:	P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 – Immediately call a POISON CENTER or doctor/physician. P391 – Collect spillage.
Disposal:	P501 – In accordance with the EPA Hazardous Substances (Disposal) Notice 2017. Refer to Section 13 of this SDS.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Main Component	CAS Number	Concentration
Glyphosate acid as the monoammonium salt	114370-14-8	80% w/w
Ingredients not contributing to hazard	Proprietary	Balance

4. FIRST AID MEASURES

Eye Contact:	Hold eyes open, flush with water for at least 15 minutes. Seek immediate medical attention.
Skin:	Wash skin with plenty of soap and water. Wash contaminated clothing before re-use. Seek medical attention if skin irritation develops and persists.
Ingestion:	Do not induce vomiting unless high doses have been swallowed. Drink plenty of water to dilute. Contact a doctor or Poisons Information Centre (0800 POISON – 0800 764 766)
Inhalation:	Remove to fresh air. If effects persist seek medical attention.
Advice to Doctor:	No specific antidote. Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flash Point:	None
Flammable Limits:	Not flammable
Extinguishing Media:	Water spray/fog, dry chemical, foam, CO ₂
Fire & Explosion Hazards:	Not a fire or explosion hazard.
Fire Fighting Equipment:	Vapours of heated material may be toxic. Use self-contained breathing apparatus.
Fire Fighting Instructions:	Addition of water may cause excessive foaming. Do not allow runoff to drains.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Clear area of all unprotected personnel. Keep unnecessary and unprotected personnel from entering area. Use appropriate protective clothing and equipment including respiratory protection if there is a risk of inhaling dust.
Spills:	<p>Ensure there is appropriate and adequate personal protective equipment, trained personnel and clean up materials for management of accidental release. Avoid release to the environment.</p> <p>Shovel or sweep up spill and place into a container for disposal. If spilled near valuable trees remove top 50mm of soil after clean-up.</p> <p>Label disposal containers. Dispose of waste in accordance with Section 13.</p>

7. HANDLING AND STORAGE

Label:	Read the storage/handling precautions on the product label.
Handling:	Avoid dust formation. Avoid contact with skin and eyes. Avoid inhaling dust. Do not eat, drink or smoke when using this product. Remove contaminated clothing and wash hands and face before entering eating areas. Wash clothing after use.
Storage:	Do not store in galvanised or unlined steel containers. Store in tightly closed original container in a cool, dry,

	well-ventilated and secure area when not in use. Do not store with food, feedstuffs, seeds or fertilisers.
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8. EXPOSURE CONTROLS & PERSONAL PROTECTION

Exposure Guidelines:	No established workplace exposure standard in NZ.
Engineering Controls:	Normal room ventilation is sufficient.
Respiratory Protection:	No special precautions are necessary for respiratory protection under normal handling conditions. If exposed to unusually high dust concentrations, then use an approved dust respirator.
Skin Protection:	Wear overalls and chemical resistant gloves while mixing or spraying.
Eye Protection:	Wear splash goggles while mixing or spraying.
Dust:	Recommend TWA of 10mg/m ³ for dust exposure as a safe guideline.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Orange coloured granule
Odour:	No definitive odour
Odour Threshold:	Not determined
Boiling Point:	Not applicable
Melting point:	Not available
Freezing point:	Not available
pH:	3-8 (1% solution)
Solubility:	Fully soluble in water
Evaporation rate:	Not determined
Flash Point:	Not applicable
Flammability:	Not flammable or combustible
LEL/UEL:	Not applicable
Vapour Pressure:	Not available
Decomposition Temperature:	Not determined
Autoignition Temperature:	Not determined
Density:	Approx. 500 g/L
Partition Coefficient:	Not determined
Viscosity:	Not determined

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Reactivity:	Not reactive under normal conditions of use.
Conditions to Avoid:	Avoid using galvanised or unlined steel containers.
Incompatibility:	Avoid strong oxidisers, strong acids and strong alkalis. Keep away from food, feedstuffs, seeds and fertilisers.
Hazardous Decomposition Products:	Oxides of nitrogen or phosphorous.
Hazardous Polymerisation:	Will not occur.

11. TOXOLOGICAL INFORMATION

ACUTE EFFECTS:	
Acute Effects: Ingestion:	LD ₅₀ > 5000 mg/kg (rat)
Acute Effects: Inhalation:	Not expected to be harmful by inhalation under normal conditions of use.
Acute Effects: Skin:	LD ₅₀ > 5000 mg/kg (rat). Not expected to be harmful by skin contact. Not expected to be a skin irritant.
Acute Effects: Eye:	Corrosive to eyes.
Sensitisation:	Not expected to be a respiratory or skin sensitiser.
CHRONIC EFFECTS:	
Carcinogenicity, Reproductive Toxicity, or Mutagenicity:	No known carcinogenic, reproductive/developmental or mutagenic effects.
Specific Target Organ Toxicity:	No known effects.

12. ECOLOGICAL INFORMATION

Ecotoxicity:	LC/EC ₅₀ >1 but ≤ 10 mg/L Toxic to aquatic life with long lasting effects. Avoid losses to the environment wherever possible.
Persistence/degradability:	Not readily biodegradable
Bioaccumulation:	Does not bioaccumulate
Soil toxicity:	No evidence of toxicity
Terrestrial vertebrates:	No evidence of toxicity
Terrestrial invertebrates:	No evidence of toxicity

Mobility:	Low mobility in soil
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13. DISPOSAL CONSIDERATIONS

Disposal Method:	Do not dispose of product down drains or sewers. Dispose via an approved waste disposal contractor.
Container Disposal:	Recycle through an approved recycling facility or dispose of via an approved waste disposal contractor.

14. TRANSPORT INFORMATION

Dangerous Goods Classification:	Classified as a Dangerous Good for transport in accordance with NZS5433:2012, IMDG or IATA.
Shipping Name:	Environmentally hazardous substance, solid, N.O.S. (Glyphosate 800 g/kg)
Class:	9
UN Number:	3077
Packaging group:	III
Hazchem Code:	2Z
Marine Pollutant:	Yes
EmS Code:	F-A S-F
Additional Notes:	This substance is not classified as a Dangerous Goods for land transport purposes when individual pack size does not exceed 5kg, and a dangerous goods declaration is not required.

15. REGULATORY INFORMATION

ACVM Registration No:	P7499
EPA Approval No:	HSR000219
Assignment Description:	Water soluble granule containing 680 g/kg glyphosate as the mono-ammonium salt
Certified Handler:	Not required
Tracking:	Not required
Compliance Certificate:	Not required
Quantity that must be secured:	Not required

Emergency Response Plan:	1,000kg
Secondary Containment:	Not applicable
Signage:	1,000kg
Fire Extinguishers:	No fire extinguisher requirement specified.
Training requirements:	<p>All workplace personnel handling this substance are required to be trained on the safe handling and PPE requirements for the hazards associated with this substance in accordance with Clause 4.5 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.</p> <p>When applied onto or into water and water has potential to leave the place containing the application area then application of the substance must be under the control of a qualified person/loader/contractor. Refer to EPA Hazardous Substances (Hazardous Property Controls) Notice 2017 Part 4, Subpart C.</p>

16. OTHER INFORMATION

Glossary	
AEL	Acceptable Exposure Limit
DT₅₀	Time (days) for 50% loss
EC₅₀	Median effective concentration
EEL	Environmental Exposure Limit
EPA	Environment Protection Authority
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

The data in this Safety Data Sheet relates only to this product alone, and not to its use in combination with other substances or products. In such circumstances, assuming the combination is permitted (refer to product labels, and contact manufacturer if in doubt), be guided by the most hazardous of the substances involved and observe the more stringent of all hazard controls applicable to the products used.

Date of Safety Data Sheet: 14 January 2019

Reason for Revision: 1.0 Review and update to new legislative requirements.

Further Information: Rainbow & Brown Limited
Toll-Free Phone (0508) 299 299
