

# R&B G540 Herbicide

## 1. PRODUCT & COMPANY IDENTIFICATION

Product Identification:	R&B G540 Herbicide
Product Use:	Herbicide
Company Identification:	Rainbow & Brown Limited 68A Tallyho Street, Rotorua, New Zealand PO Box 10049, Mail Centre, Rotorua, 3046
Telephone:	(07) 350 2009
Toll-Free Phone:	(0508) 299 299
Website:	<a href="http://www.rainbowbrown.co.nz">www.rainbowbrown.co.nz</a>
Emergency Telephone:	National Poisons Centre New Zealand Phone: 0800 POISON

## 2. HAZARDS IDENTIFICATION



Classified as a hazardous substance according to the criteria in the New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

Classified as dangerous goods by the criteria in NZS 5433:2012 Transport of Dangerous Goods on Land.

**GHS Categories:** Aquatic toxicity (Chronic) – Category 2

**HSNO Classifications:** 9.1B

**Signal word:** DANGER

**Hazard Statements:**  
H411 Toxic to aquatic life with long lasting effects.

**Prevention Statements:**  
P103 Read label before use.  
P273 Avoid release to the environment.

**Response Statements:**  
P391 Collect spillage.

**Storage Statements:**  
No Storage Requirements.

**Disposal Statements:**  
P501 Disposal of contents/container should be made in accordance with applicable regional, national and local laws and regulations.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS Number	Content (%w/w)
Glyphosate acid Potassium salt	1071-83-6	>50%

### 4. FIRST AID MEASURES

Eyes:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice.
Skin:	Remove immediately all contaminated clothing. Wash skin well with shower, soap and water. Seek medical advice. Wash contaminated clothing before re-use.
Ingestion:	Do not induce vomiting. Rinse mouth. Drink plenty of water to dilute. Seek medical advice.
Inhalation:	Remove to fresh air and keep at rest in a position comfortable for breathing. Seek medical advice.
Advice to doctor:	Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

Extinguishing media:	In case of fire use water spray/fog, dry chemical, foam, CO <sub>2</sub> .
Hazardous combustion products:	None
Precautions for firefighters:	The major hazard is inhalation of heated and toxic vapours or oxygen deficient atmosphere. Self-contained breathing apparatus is required. Addition of water may generate excessive foaming. Do not allow water runoff into drains.

### 6. ACCIDENTAL RELEASE MEASURES

Spills:	In the event of a major spill prevent spillage from entering drains or watercourses. Stop leak if safe to do so and contain spill. Pump spilt liquid to a salvage container. Absorb remaining liquid and any smaller spills with clay, sand or other absorbent material. Sweep up or shovel and collect absorbed product into labelled containers for recycling or salvage and dispose of promptly. Consider vacuuming if appropriate. After spills wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. Spills may be slippery and should be cleaned up promptly.
Personal protection:	Wear full protective chemically resistant clothing including eye/face protection, and gauntlets. See section 8 regarding Australian Standards relating to personal protective equipment. Suitable materials for protective clothing include rubber, nitrile butyl rubber and neoprene. Eye/face protective equipment should comprise as a minimum, protective goggles.
Environmental precautions:	Prevent spilled material from entering drains/surface waters/groundwater. If contamination has occurred, advise local emergency services.

## 7. HANDLING AND STORAGE

Precautions for safe handling:	Read the storage/handling precautions on the product label. Avoid eye, skin & clothing contact. Avoid inhaling spray mist. After work, remove protective clothing and equipment, wash hands before eating, drinking, smoking or using toilet. Wash clothing after use. Collect spillage and avoid release to the environment.
Conditions for safe storage:	Do not store in galvanised or unlined steel containers. Store locked up in tightly closed original container in a cool, dry, well-ventilated and secure area when not in use. Do not store with food, feedstuffs, seed or fertilisers. Keep out of reach of children

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace exposure standards:	No exposure standards have been established for the product by Worksafe New Zealand.
Appropriate engineering controls:	Provide sufficient ventilation to prevent build-up of fumes. If working with heated material use a half mask fitted with an organic vapour cartridge which meets the performance requirements of AS/NZS1716:2012.
Personal protective equipment:	Eye/Face – Protective glasses or goggles that comply with AS/NZS1336:1997.  Skin – Protective gloves that comply with AS/NZS 2121.2:1998.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear liquid.
Colour:	Blue.
Odour:	Hydrocarbon.
pH @20°C:	4-6 (1% solution).
Specific gravity:	1.35g/mL @ 20°C.
Viscosity @ 20°C:	No data available.
Freezing point:	No data available.
Boiling point:	Approx. 100°C.
Flash point:	No data available.
Flammability:	No data available.
Explosive limits:	No data available.
Vapour pressure:	No data available.
Vapour density:	No data available.
Solubility:	Fully soluble in water.
Partition coefficient:	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.

## 10. STABILITY AND REACTIVITY

Chemical stability:	Stable under normal conditions of handling and storage.
Incompatible materials:	Avoid galvanised or unlined steel containers.
Hazardous decomposition products:	Combustion forms carbon dioxide and if incomplete carbon monoxide and possibly smoke Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment and unconsciousness followed by coma and death.
Hazardous polymerisation:	This product will not undergo polymerisation reactions.

## 11. TOXICOLOGICAL INFORMATION

Health hazard summary:	No adverse health effects are expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:	
Eye contact:	Irritation may occur. Rabbit: 3 animals, OECD 405: Days to heal: 3.	
Skin contact:	Irritation of rash may occur with prolonged exposure. Rabbit: 3 animals, OECD 404: Days to heal: 14.	
Inhalation:	No adverse effects are known.	
Ingestion:	No adverse effects are known.	
Toxicity data:	Oral	LD <sub>50</sub> (rat) >5,000mg/kg
	Dermal	LD <sub>50</sub> (rabbit) >5,000mg/kg
	Inhalation	LC <sub>50</sub> 4hr (rat) >1.2mg/L air
	Sensitization	Buehler test (Guinea pig) 0% positive incidence.
	Mutagenicity	Not mutagenic.
	Carcinogenicity	Mouse, oral, 24 months: NOAEL toxicity: ~ 5,000 mg/kg diet. Target organs/systems: liver Other effects: decrease of body weight gain, histopathologic effects NOEL tumour: > 30,000 mg/kg diet Tumours: none

## 12. ECOLOGICAL INFORMATION

Ecotoxicity:	LC <sub>50</sub> 96hr (Rainbow trout) 3.13mg/L EC <sub>50</sub> 48hr (Daphnia magna) 8mg/L Not toxic to terrestrial vertebrates or invertebrates. This product is toxic to the aquatic environment with long lasting effects.
Persistence and degradability:	This product is not bioaccumulative and not readily biodegradable.
Mobility	No data available.

## 13. DISPOSAL CONSIDERATIONS

- Disposal considerations: Follow the label directions.  
Triple rinse empty containers before disposal. Crush or puncture and bury in a suitably approved landfill. Do not dispose of this product down drains or sewers. Follow all local, regional and national laws and regulations regarding hazardous waste disposal.
- Suggested Precautions: This product cannot be recycled consider controlled incineration or contact a specialist waste disposal company.

## 14. TRANSPORT INFORMATION

This product is classified as hazardous for transport according to the following:

- NZS 5433:2017 – Safe Transport of Dangerous Goods.
- ADG – Australian Code for Transport of Dangerous Goods.
- IMDG – International Maritime Dangerous Goods Code.
- IATA – International Air Transport Association.

UN Number: 3082  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Glyphosate)  
Class: 9  
Packing group: III  
EmS Codes: F-A, S-F  
Marine Pollutant: Yes

## 15. REGULATORY INFORMATION

Classified as a hazardous substance according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001 [HSR100587 - MON76641]

All components of this material are listed on, or exempt from the New Zealand Inventory of Chemicals (NZIoC).

## 16. OTHER INFORMATION

### Glossary

EC <sub>50</sub>	Median effective concentration
EEL	Environmental Exposure Limit
EPA	Environmental Protection Authority
HSNO	Hazardous Substances & New Organisms Act
LC <sub>50</sub>	Lethal Concentration in air or water for 50% of test organisms
LD <sub>50</sub>	Lethal Dose for 50% of test organisms
NOEL	No Observable Effect Level
OSH	Occupational Safety & Health service (NZ)
pH	Measure of acidity/alkalinity of a substance
STEL	Short Term Exposure Limit
TEL	Tolerable Exposure Limit
TLV	Threshold Limiting Value

TWA  
WES

Time Weighted Average  
Workplace Exposure Standards

This SDS is the first version for Rainbow & Brown G540. It summarises our best knowledge of the health and safety hazard information of the product. All users should read this SDS and consider the information in the context of how the product will be handled and used in the workplace, including in conjunction with other products. Since the actual use of this product is beyond the control of Rainbow & Brown, we make no warranty, expressed or implied, concerning the use of this product. It is the responsibility of users to ascertain that the product is suitable for intended applications.