Safety Data Sheet



Glyphosate G360

Section 1: SUBSTANCE IDENTIFICATION AND SUPPLIER

Product Name:	GLYPHOSATE G360
Product Code:	7935090 (20 Litres) 7935093 (200 Litres) 7935096 (1000 Litres)
Recommended Use:	Non-selective, non-residual, contact herbicide for the control of grass and broadleaf
Restrictions of Use:	Refer to Section 15
Company Identification:	Ravensdown Limited
Address:	292 Main South Road, Hornby, Christchurch, 8042 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	22 April 2024 v2

Section 2: HAZARD IDENTIFICATION

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

EPA Approval No:	HSR000767
Pictograms:	
Signal Word:	Warning

GHS Classification and Category	Hazard Code	Hazard Statement
Hazardous to the aquatic environment chronic Cat. 2	H411	Toxic to aquatic life with long lasting effects.

Prevention Code	Prevention Statement
P273	Avoid release to the environment.
Response Code	Response Statement
P391	Collect spillage.
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
Glyphosate as the IPA salt	1071-83-6	36%
Other ingredients, filler etc.	Proprietary	To bal

Section 4: FIRST AID MEASURES

Routes of Exposure:	
If in eyes:	Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.
If on skin:	Remove contaminated clothing and wash affected area thoroughly with soap and water. If a large area

Product Name: **Glyphosate G360**Date of SDS: 22 April 2024

	is affected occurs seek medical assistance.	
If ingested:	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:		
Eyes:	Not applicable.	
Skin:	Not applicable.	
Ingested:	Not applicable.	
Inhaled:	Not applicable.	
Chronic:	Not applicable.	
Notes to Doctor:	Treat symptomatically.	

Section 5: FIRE FIGHTING MEASURES

Hazard Type	Non Flammable	
Hazards from combustion	This product or solutions of this product react with galvanised steel or unlined steel	
products	containers and tanks, to produce hydrogen gas which may form a highly flammable or	
	explosive gas mixture.	
Suitable Extinguishing media	Water fog, foam, carbon dioxide or dry chemical	
Precautions for firefighters and	Full protective clothing and self-contained breathing apparatus.	
special protective clothing		
HAZCHEM CODE	3Z	

Section 6: ACCIDENTIAL RELEASE MEASURES

Personal precautions	protective equipment a	nd emergency procedures:
Personal precautions	. brotective equipment at	no 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

Handling:	Avoid release to the environment.
	Wear protective clothing as detailed in Section 8.
Storage:	Store away from incompatible materials listed in Section 10.
	Store in original container tightly closed, well ventilated and in a locked, dry, cool area away from
	foodstuffs, fertiliser and seed.
	Do not mix, use or store in galvanized or unlined steel containers.
	Store in accordance with NZS 8409 Management of Agrichemicals
	This product is subject to signage and secondary containment when stored in quantities of 1000L or
	more, either alone or in aggregate with substances of the same hazard classification. More than 1000L
	require 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.

Engineering **Controls:**

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.

Personal Protection Equ	uipment:
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Eyes:	When opening the container, preparing spray and when contact with concentrate or solution is likely, wear safety goggles.
Skin/Hands:	When opening the container, preparing spray and when contact with concentrate or solution is likely, wear waterproof gloves, cotton overalls buttoned to the neck and wrist, and boots.
Respiratory:	Handle in well ventilated area.
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.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid
Colour	Clear brown
Odour	Faint sweet odour
Odour Threshold	Not available
рН	4.0 – 6.0
Boiling Point	Not available
Melting Point	Not available
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	1.16 – 2.22
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 Concentrate

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	Do not mix, store or apply the product or spray solutions in galvanized or unlined steel containers or spray tanks.
Incompatible Materials	Corrosive to mild steel, galvanized steel and zinc. Non-corrosive to stainless steel, polyethylene and plastics. Avoid contact with strong acids, alkalis and oxidizing agents.
Hazardous Decomposition Products	None known. Refer to Section 5.

Section 11: TOXICOLOGICAL INFORMATION

Acute Effects:

Acute Lifects.	
Swallowed	Not applicable. LD ₅₀ (rat) 4050mg/kg for glyphosate (IP salt) Amounts swallowed incidental to normal handling are unlikely to cause injury. Large amounts swallowed may cause injury. Symptoms include nausea, vomiting, gastrointestinal discomfort, diarrhoea, hypotension and pulmonary oedema.
Dermal	Not applicable. LD ₅₀ (rabbit) >5000mg/kg for glyphosate (IPA salt).
Inhalation	Not applicable. LC ₅₀ (rat) (4hr) >1.3mg/lt for glyphosate (IPA salt) No adverse effects are to be expected. When applying this product avoid inhalation of spray mist. Some temporary irritation may be experienced.
Eye	The concentrate may cause eye irritation but permanent damage is not anticipated. Prolonged contact may cause damage.
Skin	Causes skin irritation.

Product Name: Glyphosate G360 Date of SDS: 22 April 2024

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive Toxicity	Not applicable.
Germ Cell Mutagenicity	Not applicable.
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Not applicable.

Section 12: ECOLOGICAL INFORMATION

Toxic to aquatic life with long lasting effects.

Product:	
Persistence and	Low mobility in soil. Glyphosate is strongly adsorbed by the soil. Microbial degradation is
degradability/Mobility	the major cause of loss from the soil. Half-life average 41 days (16-77 days)
Bioaccumulation	Glyphosate does not bioaccumulate.
Other adverse effects	Avoid unintended release into streams and waterways.

Ecotoxicity: Acute Toxicity (fish) (glyphosate as IPA salt)

LC₅₀ (rainbow trout) (96hr) 8.2-26mg/l

LC₅₀ (bluegill sunfish) (96hr) 5.8-14mg/l (MCPB)

LC₅₀ (carp) (96hr) 19.7mg/l

Acute Toxicity (daphnia) (glyphosate as IPA salt)

LC₅₀ (48hr) 480mg/l

Toxic to fish and other aquatic organisms

Acute toxicity to birds (glyphosate) LD₅₀ (bobtail quail) 3850mg/kg

not toxic to birds

Acute toxicity (bees) (glyphosate)

LD₅₀ 100μg/bee

not toxic to bees

Section 13: DISPOSAL INFORMATION

Disposal Method:	Triple rinse container and add rinsate to the spray tank.
	Dispose of product only by using in accordance with label directions, or through Agrecovery
	Chemical Recovery Service or alternative approved programs.
Container Disposal: AGRECOVERY	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 classified as a Dangerous Good for transport in NZ; NZS 5433:2020



Road, Rail, Sea and Air Transport

UN No	3082
Class - Primary	9
Packing Group	
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (glyphosate 36%)
Marine Pollutant	Yes
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.

Product Name: Glyphosate G360

SDS Prepared by: Technical Compliance Consultants (NZ) Ltd
Date of SDS: 22 April 2024

Tel: 64 9 475 5240 www.techcomp.co.nz

Section 15: REGULATORY INFORMATION

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

EPA Approval Code: HSR000767	HSR000767	
HSW (HS) Regulations 2017	Trigger Quantity	
Signage Trigger Quantities (Schedule		
Emergency Response Plan (Schedule	5) 1000L	
Secondary Containment (Schedule 5)	1000L	

HSNO Additional Controls (Restrictions of use)

77A - A use restriction is applied to this substance. Do not apply into or onto water.

Not required

Not required

ACVM Act and Regulations

Tracking (Schedule 26)

Certified Handlers

See <u>www.foodsafety.govt.nz</u> for registration conditions P8531

Section 16: OTHER INFORMATION

Glossary

EC50 Median effective concentration. EEL Environmental Exposure Limit. **EPA Environmental Protection Authority HSNO** Hazardous Substances and New Organisms.

Health and Safety at Work. HSW

Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it. LC_{50}

LD50 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:

- EPA Hazardous Substances (Safety Data Sheets) Notice 2017 1.
- 2. Workplace Exposure Standards and Biological Exposure Indices Nov 2017 edition.
- Assigning a hazardous substance to a HSNO Approval (Aug 2013). 3.
- 4. Transport of Dangerous goods on land NZS 5433:2012
- 5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

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Please contact Ravensdown, if further information is required.

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Product Name: Glyphosate G360 SDS Prepared by: Technical Compliance Consultants (NZ) Ltd Date of SDS: 22 April 2024

Page 5 of 5