

SAFETY DATA SHEET
ROUNDUP ULTRA MAX HERBICIDE

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SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	Roundup Ultra MAX Herbicide
Recommended Use of The Chemical and Restrictions on Use	A non-residual, non-selective herbicide for weed control prior to planting crops and pasture, prior to harvesting some crops and for general weed control in horticulture, agriculture and forestry.
EPA HSNO no.	HSR100587
Supplier Name	Bayer New Zealand Limited
Address	3 Argus Place, Hillcrest, Auckland 0627, New Zealand
Telephone	0800 428 246
Facsimile	(09) 441 8645
Emergency Contact (NZ)	0800 734 607 (24 hours) or +64 4 473 4607 (24 hours)

SECTION 2: HAZARDS IDENTIFICATION

New Zealand Hazardous Substance Classification

Classified as hazardous according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) Notice 2017 as amended.

HSNO Classification

- 9.1B Substance that is ecotoxic in the aquatic environment
H411 Toxic to aquatic life with long lasting effects

GHS Classification of the chemical

- Skin Irritation - Category 2
Eye Irritation - Category 2A
Acute Aquatic Toxicity - Category 2
Chronic Aquatic Toxicity - Category 2

SIGNAL WORD: WARNING

Hazard Statement(s):

- H315 Causes skin irritation.
H319 Causes serious eye irritation.

Precautionary Statement(s):

Prevention:

- P264 Wash hands thoroughly after handling.
P280 Wear protective gloves / protective clothing / eye protection / face protection.

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Response:

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

P321 Specific treatment (see First Aid Measures on Safety Data Sheet).

P362 Take off contaminated clothing and wash before reuse.

Storage:

No storage statements.

Disposal:

No disposal statements.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Product Description: Active ingredient is Potassium salt of glyphosate.

Components	CAS Number	Proportion	Hazard Codes
Potassium salt of glyphosate	70901-12-1	51.16%	H319 H411
Surfactant(s), water and minor formulating ingredients	-	48.84%	-

SECTION 4: FIRST AID MEASURES

For advice, contact a Poisons Information Centre (e.g. phone Australia 131 126; New Zealand 0800 764 766) or a doctor.

Inhalation:

Remove victim from area of exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

Skin Contact:

If skin or hair contact occurs, immediately remove any contaminated clothing and wash skin and hair thoroughly with running water. If swelling, redness, blistering or irritation occurs seek medical assistance.

Eye Contact:

If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre or a doctor, or for at least 15 minutes.

Ingestion:

Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water. Never give anything by the mouth to an unconscious patient. Seek medical advice.

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Indication of immediate medical attention and special treatment needed:

This product is not an inhibitor of cholinesterase. Treatment with atropine and oximes is not indicated.

SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media:

Not combustible, however, if material is involved in a fire use: Fine water spray, normal foam, dry agent (carbon dioxide, dry chemical powder).

Hazchem or Emergency Action Code: · 3Z

Specific hazards arising from the chemical:

Not combustible, however following evaporation of the water component of the material, the residual material can burn if ignited. On burning will emit toxic fumes, including those of oxides of carbon, oxides of phosphorus, oxides of nitrogen.

Special protective equipment and precautions for fire-fighters:

Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion. Equipment should be thoroughly decontaminated after use.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Emergency procedures/Environmental precautions:

Clear area of all unprotected personnel. Do not allow container or product to get into drains, sewers, streams or ponds. If contamination of sewers or waterways has occurred advise local emergency services.

Personal precautions/Protective equipment/Methods and materials for containment and cleaning up:

Slippery when spilt. Avoid accidents, clean up immediately. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. After cleaning, flush away any residual traces with water.

SECTION 7: HANDLING AND STORAGE

This material is a Scheduled Poison S5 and must be stored, maintained and used in accordance with the relevant regulations.

Precautions for safe handling:

Avoid skin and eye contact and breathing in vapour, mists and aerosols. When using do not eat, drink or smoke. Keep out of reach of children. Wash hands thoroughly after handling. Thoroughly clean equipment after use. Launder contaminated clothing before reuse. If the product is frozen allow it to thaw.

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Conditions for safe storage, including any incompatibilities:

Store in a cool, dry, well ventilated place. Store below 60°C. Store in the original container, tightly closed and away from foodstuffs. Store away from incompatible materials described in Section 10. Keep containers closed when not in use - check regularly for leaks.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit values: No value assigned for this specific material by Worksafe NZ

Environmental exposure limit (EEL) for glyphosate: 0.37 mg/L

Appropriate engineering controls: Use in well ventilated areas. Keep containers closed when not in use.

Individual protection measures, such as Personal Protective Equipment (PPE):

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

OVERALLS, SAFETY SHOES, CHEMICAL GOGGLES, GLOVES.

Wear overalls, chemical goggles and impervious gloves. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

If determined by a risk assessment an inhalation risk exists, wear a suitable mist respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Clear liquid
Colour	Blue
Odour	Odourless
Solubility	Miscible in water
Specific gravity	1.379 @ 25°C
Relative vapour density (air=1)	Not available
Vapour pressure (20°C)	Not available
Flash point (°C)	Not available
Flammability limits (%)	Not available
Autoignition temperature (°C)	Not available
Boiling point/range (°C)	Not available
pH	4.3-4.8 (60/L)
Viscosity	Not available
Evaporation rate	Not available
Partition coefficient	Log Pow: -3.2 @ 25°C (glyphosate)

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Reacts with mild steel, galvanised steel / zinc producing hydrogen gas which may form explosive mixture with air.
Chemical stability	Stable under normal conditions of use.
Possibility of hazardous reactions	None known.
Conditions to avoid	Avoid exposure to direct sunlight. Avoid contact with foodstuffs.
Incompatible materials	Incompatible with strong alkalis.
Hazardous decomposition products	Oxides of carbon. Oxides of phosphorus. Oxides of nitrogen.

SECTION 11: TOXICOLOGICAL INFORMATION

No adverse health effects 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:

Ingestion	No adverse effects expected, however, large amounts may cause nausea and vomiting.
Eye contact	An eye irritant.
Skin contact	Contact with skin will result in irritation.
Inhalation	Breathing in mists or aerosols may product respiratory irritation.
Acute toxicity	No LD50 data available for the product. However, based on similar product(s):
Oral LD50 (rat)	>5000 mg/kg
Dermal LD50 (rat)	>4000 mg/kg
Inhalation LC50 (rat)	>0.95 mg/L/4h (aerosol)
Skin corrosion/irritation	Severe irritant (rabbit)
Serious eye damage/irritation	Moderate irritant (rabbit)
Chronic effects	No information available for the product.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	Avoid contaminating waterways.
Aquatic toxicity	Toxic to aquatic organisms. May cause long lasting harmful effects to aquatic life.
48hr EC50 (Daphnia magna)	8.0 mg/L (for similar formulation)
96hr LC50 (bluegill sunfish)	5.2 mg/L (for similar formulation)
96hr LC50 (fish)	4 mg/L (cyprinus carpio, for similar formulation)

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal methods:

Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site.

If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose, clear of waterways,

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desirable vegetation and tree roots in compliance with relevant local, state or territory government regulations. Do not burn empty containers or product.

For refillable container, empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage. Do not reuse empty container.

SECTION 14: TRANSPORT INFORMATION

Road and Rail Transport

Classified as a Class 9 – Miscellaneous Substances according to NZS 5433:2012 Transport of Dangerous Goods on Land.

Must not be loaded in the same freight container or on the same vehicle with Class 1, Explosives.

Class 9 dangerous goods that contain organic matter must not be loaded in the same bulk container or tankwagon with dangerous goods of Division 5.1 unless the Class 9 and Division 5.1 dangerous goods are in separate compartments of a bulk container or tankwagon.

Goods of packing group II or III may be loaded in the same freight container or on the same vehicle if transported in segregation devices. Segregation devices may be used to segregate dangerous goods of Class 9 when the nature of those dangerous goods requires them to be segregated from dangerous goods of Class 3, 4, 5, 6, or 8 or from food items.

UN No.	3082
Transport Hazardous Class	9 Miscellaneous Dangerous Goods
Packing Group	III
Proper Shipping Name or Technical Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS POTASSIUM SALT OF GLYPHOSATE)
Hazchem or Emergency Action Code	3Z

Marine Transport

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; DANGEROUS GOODS.

UN No.	3082
Transport Hazardous Class	9 Miscellaneous Dangerous Goods
Packing Group	III
Proper Shipping Name or Technical Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS POTASSIUM SALT OF GLYPHOSATE)
IMDG EMS Fire	F-A
IMDG EMS Spill	S-F

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Air Transport

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA)
Dangerous Goods

Regulations for transport by air; DANGEROUS GOODS.

UN No.	3082
Transport Hazardous Class	9 Miscellaneous Dangerous Goods
Packing Group	III
Proper Shipping Name or Technical Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS POTASSIUM SALT OF GLYPHOSATE)

SECTION 15: REGULATORY INFORMATION

NZ specific information:

Classified as hazardous according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) Notice 2017 as amended.

HSNO approval number: HSR100587

HSNO controls: see www.epa.govt.nz

NZ Registration: registered pursuant to the ACVM Act 1997, No. P8725.

GHS Classification of the chemical:

Skin Irritation - Category 2

Eye Irritation - Category 2A

Acute Aquatic Toxicity - Category 2

Chronic Aquatic Toxicity - Category 2

Hazard Statement(s):

H315 Causes skin irritation.

H319 Causes serious eye irritation.

SECTION 16: OTHER INFORMATION

Date of SDS preparation or last revision: 02/09/2019

References: Workplace Exposure Standards and Biological Exposure Indices, Worksafe NZ

Transport of Dangerous Goods on Land NZS 5433:2012