

Material Safety Data Sheet

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Infosafe No™ LQ1FL Issue Date : July 2012 ISSUED by MONSANNZ

Product Name **ROUNDUP® GEL READY TO USE WEEDKILLER**

Not classified as hazardous

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name ROUNDUP® GEL READY TO USE WEEDKILLER
Company Name MONSANTO NEW ZEALAND
Address 68 Pook RD2, Pukekohe 2677,
New Zealand
Emergency Tel. 0800 734 607
Recommended Use Herbicide

2. HAZARDS IDENTIFICATION

Hazard Classification Not classified as hazardous
Not classified as Hazardous according to the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001, New Zealand.
Not classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433:2012 Transport of Dangerous Goods on Land.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	Proportion
	Glyphosate	38641-94-0	0-1 %
	isopropylamine		
	Ingredients determined not to be hazardous, including water.		Balance

4. FIRST AID MEASURES

Inhalation If inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms persist seek medical attention.
Ingestion Do not induce vomiting. Wash out mouth thoroughly with water. If symptoms develop seek medical attention.
Skin Wash affected area thoroughly with soap and water. If symptoms develop seek medical attention.
Eye If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing for several minutes until all contaminants are washed out completely. If symptoms develop and persist seek medical attention.
First Aid Facilities Eye wash and normal washroom facilities.
Advice to Doctor Treat symptomatically.
Other Information For advice in an emergency, contact a Poisons Information Centre (Phone Australia 13 1126; New Zealand 0800 POISON / 0800 764 766) or a doctor at once.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media Use appropriate fire extinguisher for surrounding environment.
Hazards from Combustion Products Under fire conditions this product may emit toxic and/or irritating fumes and gases including carbon monoxide, carbon dioxide, oxides of phosphorous and oxides of nitrogen.
Specific Hazards This product is non-combustible. However, following evaporation of aqueous component under fire conditions, the non-aqueous component may decompose and/or burn. As a water based product, if spilt on electrical equipment the product will cause short-circuits.
Precautions in connection with Fire Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent exposure to vapours or fumes. Water spray may be used to cool down heat-exposed containers.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures Wear appropriate personal protective equipment and clothing to prevent exposure. Stop leak if safe to do so. Increase ventilation. Evacuate all unprotected personnel. If possible contain the spill. Place inert absorbent, non-combustible material onto spillage. Use clean tools to collect the

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material and place into suitable labelled containers for subsequent recycling or disposal. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling	Use only in a well ventilated area. Keep containers sealed when not in use. Prevent the build up of mists or vapours in the work atmosphere. Avoid inhalation of vapours and mists, and skin or eye contact. Do not re-use containers. Maintain high standards of personal hygiene i.e. Washing hands prior to eating, drinking, smoking or using toilet facilities.
Conditions for Safe Storage	Store in a cool, dry, well-ventilated area, out of direct sunlight. Store in suitable, labelled containers. Keep containers closed when not in use. Ensure that storage conditions comply with applicable local and national regulations.
Storage Temperatures	Minimum storage temperature: -15 °C Maximum storage temperature: 50 °C
Recommended Materials	Compatible materials: stainless steel, fibreglass, plastic, glass lining
Unsuitable Materials	Incompatible materials: galvanised steel, unlined mild steel.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards	No exposure standards have been established for the material by the Occupational Safety and Health Service (OSH) of the New Zealand Department of Labour. However, over-exposure to some chemicals may result in enhancement of pre-existing adverse medical conditions and/or allergic reactions and should be kept to the least possible levels.
Biological Limit Values	No biological limits allocated.
Engineering Controls	Use with good general ventilation. If mists or vapours are produced, local exhaust ventilation should be used.
Respiratory Protection	If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable filter should be used. Reference should be made to Australian/New Zealand Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.
Eye Protection	Safety glasses with side shields or chemical goggles should be worn. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.
Hand Protection	Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.
Body Protection	Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colourless homogenous gel
Odour	Mild odour
Freezing Point	0°C (water)
Boiling Point	100°C (water)
Solubility in Water	Completely miscible
Specific Gravity	1.016 at 20/4°C
pH Value	7.2 (5% solution)
Vapour Pressure	Not available
Vapour Density (Air=1)	Not available

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Octanol/Water Partition Coefficient log Pow: -3.2 @ 25 °C (glyphosate)

Flash Point Not applicable

Flammability Not flammable

Auto-Ignition Temperature Not available

Flammable Limits - Lower Not available

Flammable Limits - Upper Not available

10. STABILITY AND REACTIVITY

Chemical Stability Stable under normal conditions of storage and handling.

Conditions to Avoid Extremes of temperature

Incompatible Materials Reacts with galvanised steel or unlined mild steel to produce hydrogen, a highly flammable gas that could explode.

Hazardous Decomposition Products Thermal decomposition may result in the release of toxic and/or irritating fumes and gases including carbon monoxide, carbon dioxide, oxides of phosphorous and oxides of nitrogen,

Hazardous Polymerization Will not occur

11. TOXICOLOGICAL INFORMATION

Toxicology Information No toxicity data available for this material. The available acute toxicity data for the active ingredient is given below

Inhalation Inhalation of product vapours may cause irritation of the nose, throat and respiratory system.

Ingestion Ingestion of this product may irritate the gastric tract causing nausea and vomiting.

Skin May be irritating to skin. The symptoms may include redness, itching and swelling. Prolonged or repeated skin contact may cause defatting leading to dermatitis.

Eye May be irritating to eyes. The symptoms may include redness, itching and tearing.

Reproductive Toxicity Not considered to be toxic to reproduction

Carcinogenicity Not considered to be a carcinogenic hazard

Acute Toxicity - Oral Rat:> 2,000 mg/kg body weight

Acute Toxicity - Dermal Rat:> 2,000 mg/kg body weight

Skin Sensitisation Not expected to be a skin sensitiser

12. ECOLOGICAL INFORMATION

Ecotoxicity No ecological data available for this material. The available ecological data for the active ingredient is given below:

Persistence / Degradability Not available

Mobility Not available

Bioaccumulative Potential Not available

Environ. Protection Prevent this material entering waterways, drains and sewers.

Acute Toxicity - Fish Bluegill sunfish (*Lepomis macrochirus*):
Acute toxicity, 96 hours, static, LC50: 120 mg/L
Rainbow trout (*Oncorhynchus mykiss*):
Acute toxicity, 96 hours, static, LC50: 86 mg/L

13. DISPOSAL CONSIDERATIONS

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Disposal Considerations

This product can be disposed through a licensed commercial waste collection service, in accordance with applicable local and national regulations. This product is non-hazardous and therefore the New Zealand HSNO regulations regarding disposal do not apply. However other regulations may apply. This is a water-based/water-soluble product and therefore can be sent through a Waste Water Treatment Plant and after treatment can be discharged into environment through the sewerage or drainage systems as authorized.

Container Disposal:

Empty packaging completely. Store for collection by approved waste disposal service. Dispose of as non hazardous industrial waste. Do NOT re-use containers.

14. TRANSPORT INFORMATION

Transport Information

Road and Rail Transport:

Not classified as Dangerous Goods for transport according to the NZS 5433:2012 Transport of Dangerous Goods on Land.

Marine Transport (IMO/IMDG):

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Air Transport (ICAO/IATA):

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.
No

IMDG Marine Pollutant (MP)

15. REGULATORY INFORMATION

Regulatory Information

Not classified as Hazardous according to the New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

16. OTHER INFORMATION

Date of preparation or last revision of MSDS SDS Created: July 2012

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