# SAFETY DATA SHEET

## ROUNDUP® A CONCENTRATE WEEDKILLER

**Infosafe No.: LQ1ER**
**ISSUED Date : 24/05/2022**
**ISSUED by: Evergreen Garden Care Australia Pty. Ltd.**

## Section 1 - Identification

**Product Identifier**
ROUNDUP® A CONCENTRATE WEEDKILLER

**Company Name**
Evergreen Garden Care Australia Pty. Ltd.

**Address**
Building E, Level 2
24-32 Lexington Drive, Bella Vista
NSW AUSTRALIA

**Telephone/Fax Number**
Tel: (02) 8602 9000
Fax: (02) 8602 9001

**Emergency Phone Number**
1800 033 111

**Recommended use of the chemical and restrictions on use**
Herbicide

**Other Names**

| Name |
|---|
| CONCENTRATE ADVANCE ROUNDUP WEEDKILLER |

## Section 2 - Hazard(s) Identification

**GHS classification of the substance/mixture**
Not classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.
Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

## Section 3 - Composition and Information on Ingredients

**Ingredients**

| Name | CAS | Proportion |
|---|---|---|
| Isopropylamine salt of glyphosate | 38641- 94- 0 | 40- <45 % |
| Ingredients determined not to be hazardous, including water. | | Balance |

## Section 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. Seek medical attention.

**Skin**
Wash affected area thoroughly with soap and water. Take off contaminated clothing, wristwatch, jewellery. Wash clothes and clean

shoes before re-use. If symptoms develop seek medical attention.

**Eye**

If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing for several minutes until all contaminants are washed out completely. If symptoms develop and/or persist seek medical attention.

**First Aid Facilities**

Eyewash and normal washroom facilities.

**Advice to Doctor**

Treat symptomatically. This product is not an inhibitor of cholinesterase.
Antidote: Treatment with atropine and oximes is not indicated.

**Other Information**

For advice in an emergency, contact a Poisons Information Centre (Phone Australia 131 126) or a doctor at once.

## Section 5 - Firefighting Measures

**Suitable Extinguishing Media**

Use carbon dioxide, dry chemical, foam, water mist or water spray.

**Unsuitable Extinguishing Media**

Not available

**Hazards from Combustion Products**

Under fire conditions this product may emit toxic and/or irritating fumes and gases including carbon monoxide, carbon dioxide, phosphorus oxides (PxOy), nitrogen oxides (NOx).

**Specific hazards arising from the chemical**

This product is non combustible. However, following evaporation of aqueous component under fire conditions, the non-aqueous component may decompose and/or burn. Minimise use of water to prevent environmental contamination.

**Decomposition Temperature**

Not available

**Precautions in connection with Fire**

Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. Fight fire from safe location.

## Section 6 - Accidental Release Measures

**Emergency Procedures**

Wear appropriate personal protective equipment and clothing to prevent exposure. Increase ventilation. If possible contain the spill. Place inert absorbent material onto spillage. Collect the material and place into a suitable labelled container. Do not dilute material but contain. 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.
SMALL QUANTITIES: Flush spill area with water.
LARGE QUANTITIES: Absorb in earth, sand or absorbent material. Dig up heavily contaminated soil.

## Section 7 - Handling and Storage

**Precautions for Safe Handling**

Avoid inhalation of vapours and mists, and skin or eye contact. 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. Maintain high standards of personal hygiene i.e. Washing hands prior to eating, drinking, smoking or using toilet facilities.

**Conditions for safe storage, including any incompatibilities**

Store in a cool, dry, well-ventilated area, out of direct sunlight. Store in suitable, labelled containers. Keep containers tightly closed. Store away from incompatible materials. Ensure that storage conditions comply with applicable local and national regulations. Protect from freezing. Partial crystallization may occur on prolonged storage below the minimum storage temperature. If frozen, place in warm room and shake frequently to put back into solution.

**Storage Temperatures**

Minimum storage temperature: -15 °C
Maximum storage temperature: 50 °C

**Recommended Materials**

Stainless steel, fibreglass, plastic, glass lining. Keep in original packaging.

## Section 8 - Exposure Controls and Personal Protection

**Occupational exposure limit values**
No exposure standards have been established for this material by Safe Work, Australia. 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 Monitoring**
No biological limits allocated.

**Control Banding**
Not available

**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 vapor/mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements.
Reference should be made to Australian 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 and Face Protection**
Safety glasses with side shields, chemical goggles or full-face shield as appropriate should be used. Final choice of appropriate eye/face protection will vary according to individual circumstances.
Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 (series) - 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. Occupational protective gloves should conform to relevant regulations.
Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

**Thermal Hazards**
No further relevant information available.

**Body Protection**
Suitable protective work wear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

## Section 9 - Physical and Chemical Properties

| Properties | Description | Properties | Description |
|---|---|---|---|
| **Form** | Liquid | **Appearance** | Green-Dark green liquid |
| **Colour** | Green-Dark green | **Odour** | Slight |
| **Melting Point** | Not available | **Boiling Point** | Not available |
| **Decomposition Temperature** | Not available | **Solubility in Water** | Soluble |
| **Specific Gravity** | 1.173 (20°C/4°C) | **pH** | 4.4-4.8 (80g/l) |
| **Vapour Pressure** | No significant volatility, aqueous solution | **Relative Vapour Density (Air=1)** | Not applicable |
| **Evaporation Rate** | Not available | **Odour Threshold** | Not available |
| **Viscosity** | Not available | **Volatile Component** | Not available |
| **Partition Coefficient: n-octanol/water (log value)** | Not available | **Density** | 1.173g/cm$^3$ (20°C) |
| **Flash Point** | Does not flash | **Flammability** | Non combustible |
| **Auto-Ignition Temperature** | Not available | **Flammable Limits - Lower** | Not available |
| **Flammable Limits - Upper** | Not available | **Explosion Properties** | No explosive properties |
| **Oxidising Properties** | None | **Particle Characteristics** | Not applicable |

**Other Information**
log Pow: -3.2 @ 25 °C (glyphosate)

## Section 10 - Stability and Reactivity

**Reactivity**

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

**Chemical Stability**
Stable under normal conditions of storage and handling.

**Possibility of hazardous reactions**
Reacts with galvanised steel or unlined mild steel to produce hydrogen, a highly flammable gas that could explode.

**Conditions to Avoid**
Extremes of temperature and direct sunlight. Protect from freezing.

**Incompatible Materials**
Incompatible materials for storage: galvanised steel, unlined mild steel.

**Hazardous Decomposition Products**
Thermal decomposition may result in the release of toxic and/or irritating fumes and gases including carbon monoxide (CO), phosphorus oxides (PxOy), nitrogen oxides (NOx).

**Hazardous Polymerization**
Not available

## Section 11 - Toxicological Information

**Toxicology Information**
No toxicity data available for this material. Data obtained on similar products and on components are summarized below.

**Acute Toxicity - Oral**
Similar formulation:
LD50 (Rat): >2000 mg/kg body weight
No mortality.

**Acute Toxicity - Dermal**
Similar formulations:
LD50 (Rat): >2000 mg/kg body weight
No mortality.

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

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

**Skin**
May be irritating to skin. The symptoms may include redness, itching and swelling.
Similar formulation:
Skin irritation
Rabbit, 3 animals, OECD 404 test:
Redness, individual EU scores: 0.3; 0.0; 0.0
Swelling, individual EU scores: 0.0; 0.0; 0.0
Days to heal: 5

**Eye**
May be irritating to eyes. The symptoms may include redness, itching and tearing.
Similar formulation:
Eye irritation
Rabbit, 3 animals, OECD 405 test:
Conjunctival redness, individual EU scores: 0.7; 1.0; 0.7
Conjunctival swelling, individual EU scores: 1.0; 1.0; 0.7
Corneal opacity, individual EU scores: 0.0; 0.0; 0.0
Iris lesions, individual EU scores: 0.0; 0.0; 0.0
Days to heal: 3
Slightly irritating to eyes but not sufficient for classification.

**Respiratory Sensitisation**
Not expected to be a respiratory sensitiser.

**Skin Sensitisation**
Not expected to be a skin sensitiser.
Similar formulation:
Skin sensitization
Guinea pig, 9-induction Buehler test:
Negative.

No skin sensitization

**Germ Cell Mutagenicity**
Not considered to be a mutagenic hazard.

**Carcinogenicity**
Not considered to be a carcinogenic hazard.

**Reproductive Toxicity**
Not considered to be toxic to reproduction.

**STOT - Single Exposure**
Not expected to cause toxicity to a specific target organ.

**STOT - Repeated Exposure**
Not expected to cause toxicity to a specific target organ.

**Aspiration Hazard**
Not expected to be an aspiration hazard.

**Other Information**
N-(phosphonomethyl)glycine; { glyphosate acid}
Genotoxicity
Not genotoxic
Carcinogenicity
Not carcinogenic in rats or mice.
Reproductive/Developmental Toxicity
Developmental effects in rats and rabbits only in the presence of significant maternal toxicity.
Reproductive effects in rats only in the presence of significant maternal toxicity.

## Section 12 - Ecological Information

**Ecotoxicity**
Data obtained on a similar glyphosate formulation and/or glyphosate are summarized below.

**Persistence and degradability**
Not available

**Mobility**
Not available

**Bioaccumulative Potential**
Not available

**Other Adverse Effects**
Not available

**Environmental Protection**
Prevent this material entering waterways, drains and sewers.

**Acute Toxicity - Fish**
Similar formulation:
Rainbow trout (Oncorhynchus mykiss):
Acute toxicity, 96 hours, static, LC50: > 1039 mg/L

**Acute Toxicity - Daphnia**
Similar formulation:
Acute toxicity, 48 hours, static, EC50: 243 mg/L

**Acute Toxicity - Algae**
Similar formulation:
Green algae (Selenastrum capricornutum):
Acute toxicity, 72 hours, static, ErC50 (growth rate): 118 mg/L
Duckweed (Lemna gibba):
Acute toxicity, 7 days, static, ErC50 (frond number): 74.3 mg/L
Duckweed (Lemna gibba):
Acute toxicity, 7 days, static, NOEC (growth rate): 19.1 mg/L

**Acute Toxicity - Other Organisms**
Similar formulation:
Arthropod toxicity
Honey bee (Apis mellifera):
Contact, 48 hours, LD50: > 279 µg/bee
Honey bee (Apis mellifera):

Oral, 48 hours, LD50: > 282 µg/bee
Soil organism toxicity, invertebrates
Earthworm (Eisenia foetida):
Acute toxicity, 14 days, LC50: > 10000 mg/kg dry soil

**Hazardous to the Ozone Layer**
This product is not expected to deplete the ozone layer.

**Other Information**
N-(phosphonomethyl)glycine; { glyphosate acid}
Avian toxicity
Bobwhite quail (Colinus virginianus):
Dietary toxicity, 5 days, LC50: > 4640 mg/kg diet
Mallard duck (Anas platyrhynchos):
Dietary toxicity, 5 days, LC50: > 4640 mg/kg diet
Bobwhite quail (Colinus virginianus):
Acute oral toxicity, single dose, LD50: > 3851 mg/kg body weight
Bioaccumulation
Bluegill sunfish (Lepomis macrochirus):
Whole fish: BCF: < 1
No significant bioaccumulation is expected.
Dissipation
Soil, field:
Half life: 2 - 174 days
Koc: 884 - 60000 L/kg
Adsorbs strongly to soil.
Water, aerobic:
Half life: < 7 days

## Section 13 - Disposal Considerations

**Disposal Considerations**
The disposal of the spilled or waste material must be done in accordance with applicable local and national regulations. To minimise personal exposure to the chemical, refer to Section 8—Exposure controls and personal protection.

## Section 14 - Transport Information

**Transport Information**
Road and Rail Transport (ADG Code):
Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code) (7th edition).
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.

**ADG U.N. Number**
None Allocated

**ADG Proper Shipping Name**
None Allocated

**ADG Transport Hazard Class**
None Allocated

**Special Precautions for User**
Not available

**IMDG Marine pollutant**
No

**Transport in Bulk**
Not available

## Section 15 - Regulatory Information

**Regulatory Information**
Not classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.
Classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

**Poisons Schedule**
S5

**Montreal Protocol**
Not listed

**Stockholm Convention**
Not listed

**Rotterdam Convention**
Not listed

**International Convention for the Prevention of Pollution from Ships (MARPOL)**
Not available

**Agricultural and Veterinary Chemicals Act 1994**
Not available

**Basel Convention**
Not available

## Section 16 - Any Other Relevant Information

**Date of Preparation**
SDS Reviewed: May 2022
Supersedes: September 2020

**Version Number**
Version 4.0

**Literature References**
Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.
Standard for the Uniform Scheduling of Medicines and Poisons.
Australian Code for the Transport of Dangerous Goods by Road & Rail.
Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
Code of Practice for Supply Diversion into Illicit Drug Manufacture.
National Code of Practice for Chemicals of Security Concern.
Agricultural Compounds and Veterinary Chemicals Act.
International Agency for Research on Cancer (IARC) Monographs.
Montreal Protocol on Substances that Deplete the Ozone Layer.
Stockholm Convention on Persistent Organic Pollutants (POPs).
Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade.
Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and Their Disposal.
International Air Transport Association (IATA) Dangerous Goods Regulations.
International Maritime Dangerous Goods (IMDG) Code.
Workplace exposure standards for airborne contaminants.
Adopted biological exposure determinants, American Conference of Industrial Hygienists (ACGIH).
Globally Harmonised System of Classification and Labelling of Chemicals (7th revised edition).
Code of Practice: Managing Noise and Preventing Hearing Loss at Work.

## END OF SDS