



# SAFETY DATA SHEET

## ROUNDUP® T CONCENTRATE WEEDKILLER TOUGH

Infosafe No.: LQ1JH  
ISSUED Date : 25/05/2022  
ISSUED by: Evergreen Garden Care Australia  
Pty. Ltd.

### Section 1 - Identification

#### Product Identifier

ROUNDUP® T CONCENTRATE WEEDKILLER TOUGH

#### 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

### 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)

Hazardous to the Aquatic Environment - Acute Hazard: Category 3

Hazardous to the Aquatic Environment - Long-Term Hazard: Category 3

#### Hazard Statement (s)

H412 Harmful to aquatic life with long lasting effects.

#### Precautionary Statement – Prevention

P273 Avoid release to the environment.

#### Precautionary Statement – Disposal

P501 Dispose of contents/container to an approved waste disposal plant.

### Section 3 - Composition and Information on Ingredients

#### Ingredients

Name	CAS	Proportion
Isopropylamine salt of glyphosate	38641- 94- 0	1- 20 %
Triethylamine salt of triclopyr	57213- 69- 1	1- 2 %
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 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 13 1126) or a doctor at once.

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**Section 5 - Firefighting Measures**

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**Suitable Extinguishing Media**

Carbon dioxide, dry chemical, foam, water mist or water spray.

**Hazards from Combustion Products**

Under fire conditions this product may emit toxic and/or irritating fumes and gases including carbon monoxide (CO), phosphorus oxides (P<sub>x</sub>O<sub>y</sub>), nitrogen oxides (NO<sub>x</sub>), hydrogen chloride (HCl).

**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.

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**Section 6 - Accidental Release Measures**

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**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. As a water based product, if spilt on electrical equipment the product will cause short-circuits. 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.

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**Section 7 - Handling and Storage**

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**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, aluminium, fibreglass, plastic, glass lining. Keep only in the original container.

**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	Amber liquid
Colour	Amber	Odour	Mild, Musky
Melting Point	Not applicable	Boiling Point	Not available
Decomposition Temperature	Not available	Solubility in Water	Soluble
Specific Gravity	1.076 (20°C/4°C)	pH	4.9
Vapour Pressure	Not 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	1.076 g/cm <sup>3</sup> (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	Kinematic Viscosity	4.1mm <sup>2</sup> /s (20°C), 2.7mm <sup>2</sup> /s (40°C)
Dynamic Viscosity	Not applicable		

**Other Information**

log Pow: -3.2 (25°C) (glyphosate)

## Section 10 - Stability and Reactivity

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### 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

Under fire conditions this product may emit toxic and/or irritating fumes and gases including carbon monoxide (CO), phosphorus oxides (P<sub>x</sub>O<sub>y</sub>), nitrogen oxides (NO<sub>x</sub>), hydrogen chloride (HCl).

### Hazardous Polymerization

Not available

## Section 11 - Toxicological Information

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### Toxicology Information

Given below:

#### Acute Toxicity - Oral

Rat, LD50 (limit test): > 5000 mg/kg body weight

No mortality.

#### Acute Toxicity - Dermal

Rat, LD50 (limit test): > 5000 mg/kg body weight

No mortality.

#### Acute Toxicity - Inhalation

This product is not aerosolized during handling or use and is therefore not classified as hazardous under the Dangerous Preparation Directive 1999/45/EC.

#### Ingestion

Not classified according to GHS criteria.

#### Inhalation

Not classified according to GHS criteria.

#### Skin

Not classified according to GHS criteria.

Skin irritation

Rabbit, 3 animals, OECD 404 test:

Redness, individual EU scores: 0.67; 0.33; 0.33

Swelling, individual EU scores: 0.00; 0.00; 0.00

Days to heal: 3

Slightly irritating to skin but not sufficient for classification.

#### Eye

Not classified according to GHS criteria.

Rabbit, 3 animals, OECD 405 test:

Conjunctival redness, individual EU scores: 1.67; 1.00; 1.33

Conjunctival swelling, individual EU scores: 1.00; 0.67; 1.00

Corneal opacity, individual EU scores: 0.00; 0.00; 0.00

Iris lesions, individual EU scores: 0.00; 0.00; 0.00

Days to heal: 3

#### Respiratory Sensitisation

Not expected to be a respiratory sensitiser.

#### Skin Sensitisation

Not expected to be a skin sensitiser.

Guinea pig, 3-induction Buehler test:

Positive incidence: 0 %

**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.

Triethylamine salt of triclopyr

Following information has been found in the literature.

Genotoxicity

Not genotoxic

Carcinogenicity

Reported to be not carcinogenic to laboratory animals by some suppliers and not classifiable as to human carcinogenicity by the USEPA and other suppliers.

Reproductive/Developmental Toxicity

Developmental effects in rats and rabbits only in the presence of significant maternal toxicity.

**Section 12 - Ecological Information**

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**Ecotoxicity**

Harmful to aquatic life with long lasting effects. Data obtained on similar products and on components are summarized below.

**Persistence and degradability**

Not available

**Mobility**

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: 42.65 mg/L

**Acute Toxicity - Daphnia**

Similar formulation

Water flea (*Daphnia magna*):

Acute toxicity, 48 hours, static, EC50: 42.2 mg/L

**Acute Toxicity - Algae**

Similar formulation

Green algae (*Selenastrum capricornutum*):

Acute toxicity, 72 hours, static, ErC50 (growth rate): 14.19 mg/L

**Acute Toxicity - Other Organisms**

Similar formulation

Avian toxicity

Japanese quail (*Coturnix coturnix japonica*):  
Acute oral toxicity (limit test), single dose, LD50: > 2000 mg/kg body weight  
Arthropod toxicity  
Honey bee (*Apis mellifera*):  
Contact, 48 hours, LD50: > 208 ug/bee  
Soil organism toxicity, invertebrates  
Earthworm (*Eisenia foetida*):  
Acute toxicity, 14 days, LC50: > 1000 mg/kg soil

**Hazardous to the Ozone Layer**

This product is not expected to deplete the ozone layer.

**Other Information**

Triethylamine salt of triclopyr  
Aquatic toxicity, invertebrates  
Water flea (*Daphnia magna*):  
Acute toxicity, 48 hours, static, EC50: 1496 mg/L  
Avian toxicity  
Bobwhite quail (*Colinus virginianus*):  
Dietary toxicity, 5 days, LC50: 11622 mg/kg diet  
Mallard duck (*Anas platyrhynchos*):  
Dietary toxicity, 5 days, LC50: > 10000 mg/kg diet  
Mallard duck (*Anas platyrhynchos*):  
Acute oral toxicity, single dose, LD50: 2055 mg/kg body weight  
Arthropod toxicity  
Honey bee (*Apis mellifera*):  
Contact, 48 hours, LD50: > 100 µg/bee  
N-(phosphonomethyl)glycine { glyphosate}  
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**

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**Disposal Considerations**

Dispose of waste according to applicable local and national regulations. Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes including emptied containers are controlled wastes and should be disposed of in accordance with all applicable local and national regulations. To minimise personal exposure, refer to Section 8 - Exposure Controls and Personal Protection.

**Section 14 - Transport Information**

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**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**

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**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**

S6

**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**

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**Date of Preparation**

SDS Reviewed: May 2022

Supersedes: October 2020

**Version Number**

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.

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