

SAFETY DATA SHEET

CONCENTRATE ROUNDUP POWERMAX WEEDKILLER

Infosafe No.: LQ1DY
ISSUED Date : 21/10/2015
ISSUED by: Evergreen Garden Care
Australia Pty. Ltd.

1. IDENTIFICATION

GHS Product Identifier

CONCENTRATE ROUNDUP POWERMAX WEEDKILLER

Company Name

Evergreen Garden Care Australia Pty. Ltd.

Address

Level 2,
32 Lexington Drive, Bella Vista
NSW 2153 Australia

Telephone/Fax Number

Tel: (02) 8602 9000

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Emergency phone number

1800 033 111

Recommended use of the chemical and restrictions on use

Water soluble herbicide for non-selective control of many annual and perennial weeds.

2. HAZARD 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)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Name	CAS	Proportion
Potassium salt of glyphosate	70901-12-1	>25-<50 %
Tallow alkylamine ethoxylate	61791-26-2	5-<10 %
Bis (2-hydroxyethyl) cocoalkylamine	61791-31-9	>1-5 %
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. Take off contaminated clothing, wristwatch, jewellery. Wash clothes and clean shoes before re-use. If symptoms develop seek medical attention.

Eye contact

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 13 1126; New Zealand 0800 POISON / 0800 764 766) or a doctor at once.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use 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, carbon dioxide, oxides of nitrogen and oxides of phosphorus.

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.

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.

Other Information

Minimise use of water to prevent environmental contamination.

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. 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.

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. Partial crystallization may occur on prolonged storage below the minimum storage temperature. Protect from freezing. If frozen, place in warm room and shake frequently to put back into solution.

Storage Temperatures

Maximum storage temperature: 50°C

Minimum storage temperature: -15°

Recommended Materials

Stainless steel, glass lining, fibreglass, plastic. Keep only in the original container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit values

No exposure standards have been established for the mixture. 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.

Appropriate 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 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 devices should conform to relevant regulations. Eye protection 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. Occupational protective gloves should conform to relevant regulations. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Properties	Description	Properties	Description
Form	Liquid	Appearance	Clear blue liquid
Colour	Blue	Odour	Slight
Melting Point	Not available	Boiling Point	Not available
Solubility in Water	Completely miscible	Specific Gravity	1.354 (20°C/4°C)
pH	4.5-4.8 (63g/l)	Vapour Pressure	No significant volatility, aqueous solution.
Vapour Density (Air=1)	Not applicable	Evaporation Rate	Not available
Odour Threshold	Not available	Density	1.354g/cm ³ (20°C)
Flash Point	Does not flash	Flammability	Non-combustible liquid
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	Not available
Dynamic Viscosity	Not available		

Other Information

log Pow: -3.2 @ 25 °C (glyphosate)

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.

Conditions to Avoid

Extremes of temperature and direct sunlight.

Incompatible materials

Galvanised steel and unlined mild steel

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 nitrogen and oxides of phosphorus.

Possibility of hazardous reactions

Reacts with incompatible material to produce hydrogen gas, an extremely flammable gas that poses and explosion hazard.

Hazardous Polymerization

Not available

11. TOXICOLOGICAL INFORMATION

Toxicology Information

No toxicity data available for this material. The available acute toxicity data for similar formulations are listed below.

Acute Toxicity - Oral

Similar formulations:

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

Method: Up-and-down procedure (OECD 425)

No mortality

Acute Toxicity - Inhalation

Rat, LC50, 4 hours, aerosol

No 4-hr LC50 at the maximum tested concentration. This product is not aerosolized during handling or use and is therefore not classified as hazardous under the Dangerous Preparation Directive 1999/45/EC

Acute Toxicity - Dermal

Similar formulations:

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

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: 0.3; 0.3; 0.3

Swelling, individual EU scores: 0.00; 0.00; 0.00

Days to heal: 2

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: 1.7; 2.0; 1.0
Conjunctival swelling, individual EU scores: 0.7; 1.0; 0.7
Corneal opacity, individual EU scores: 0.3; 1.0; 0.3
Iris lesions, individual EU scores: 0.0; 0.3; 0.0
Days to heal: 7
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.
Guinea pig, 3-induction Buehler test:
Positive incidence: 0%
Negative.

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.

Chronic Effects

Prolonged or repeated skin contact may cause defatting leading to dermatitis.

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.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic life with long lasting effects. Data obtained on similar product and on components are summarized below.

Persistence and degradability

Not available

Mobility

Not available

Bioaccumulative Potential

Not available

Other Adverse Effects

Not available

Environmental Protection

Do not discharge this material into waterways, drains and sewers.

Acute Toxicity - Fish

LC50 (Rainbow trout (*Oncorhynchus mykiss*), semi-static): 3.13mg/l/96h

Acute Toxicity - Daphnia

EC50 (Water flea (*Daphnia magna*), static): 11mg/l/48h

Life cycle/reproduction test, 21 days, semi-static, NOEC: 3.2mg/l

Acute Toxicity - Algae

ErC50 (Green algae (*Selenastrum capricornutum*), growth rate, static): 0.294mg/l/72h

NOEC (Green algae (*Selenastrum capricornutum*), static): 0.047mg/l/72h

Other Information

Arthropod toxicity

Honey bee (*Apis mellifera*):

LD50(oral): >238.8µg/bee/48h

Honey bee (*Apis mellifera*):

LD50(Contact): >250µg/bee/48h

Soil organism toxicity, invertebrates

Earth worm (*Eisenia foetida*):

Acute toxicity, 14 days, LC50: >10000mg/kg dry soil

Soil organism toxicity, microorganisms

40 L/ha, 28days, Less than 25% effect on nitrogen or carbon transformation processes in soil

N-(phosphonomethyl)glycine; {glyphosate acid}

Avian toxicity

Bobwhite quail (*colinus virginianus*):

Dietary toxicity, 5 days, LC50: >4640mg/kg diet

Mallard duck (*Anas platyrhynchos*):

Dietary toxicity, 5days, LC50: >4640mg/kg diet

Bobwhite quail (*Colinus virginianus*):

Acute oral toxicity, single dose, LD50: >3851mg/kg body weight

Bioaccumulation

Bluegill sunfish (*Lepomis macrochirus*)

Whole fish: BCF: <1

No significant bioaccumulation is expected.

Dissipation

Soil, field:

Half life: 2-174days; Koc: 884-60000 L/kg; Adsorbs strongly to soil

Water aerobic:

Half life: <7 days

13. DISPOSAL CONSIDERATIONS

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.

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):

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

UN No.: 3082

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains: Potassium salt of glyphosate & Tallow alkylamine ethoxylate) - MARINE POLLUTANTS

DG Class: 9

Packaging Group: III

EMS No.: F-A, S-F

Special provisions: 274, 335, 969

Air Transport (ICAO/IATA):

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

UN No: 3082

Proper Shipping Name: : Environmentally hazardous substance, liquid, n.o.s. (Contains: Potassium salt of glyphosate & Tallow alkylamine ethoxylate)

Class: 9

Packing Group: III

Hazard Label: Miscellaneous

Packing Instruction: 964 (For passenger and cargo aircraft)

Packing Instruction: 964 (For cargo aircraft only)

Special provisions: A97, A158, A197

U.N. Number

None Allocated

UN proper shipping name

None Allocated

Transport hazard class(es)

None Allocated

IMDG Marine pollutant

Yes

Transport in Bulk

Not available

Special Precautions for User

Not available

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

16. OTHER INFORMATION

Date of preparation or last revision of SDS

SDS Reviewed: October 2015, Supersedes: July 2012

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.

Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

Workplace exposure standards for airborne contaminants, Safe work Australia.
American Conference of Industrial Hygienists (ACGIH).
Globally Harmonised System of classification and labelling of chemicals.

END OF SDS

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