SAFETY DATA SHEET

REGULAR ROUNDUP READY TO USE WEEDKILLER

Infosafe No.: LQ1E8
ISSUED Date: 14/10/2015
ISSUED BY SCOTTS AUSTRALIA PTY LTD

1. IDENTIFICATION

GHS Product Identifier
REGULAR ROUNDUP READY TO USE WEEDKILLER

Company Name
SCOTTS AUSTRALIA PTY LTD

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

2. HAZARD IDENTIFICATION

GHS classification of the substance/mixture
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)

GHS Classification:
Eye damage/irritation 2A
Hazardous to the aquatic environment - acute hazard category 3

Signal Word (s)
WARNING

Hazard Statement (s)
H319 Causes serious eye irritation.
H402 Harmful to aquatic life.

Pictogram (s)
Exclamation mark

Precautionary statement – Prevention

P264 Wash contaminated skin thoroughly after handling
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement – Response
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.

Precautionary statement – Disposal
P501 Dispose of contents/container to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Name	CAS	Proportion
Pelargonic and related fatty acids	112-05-0	1-<2.5 %
Isopropylamine salt of glyphosate	38641-94-0	1-<2.5 %
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. Seek immediate 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. Seek medical attention.

First Aid Facilities
Eye wash fountain, safety shower 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, phosphorus oxides, nirogen oxides and carbon dioxide.

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. 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 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.
Small spills: flush spill area with water.
Large spills: absorb in earth, sand or absorbent material. Dig up heavily contaminated soil.

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. Protect from freezing.

Conditions for safe storage, including any incompatabilities
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: 5°C
Maximum storage temperature: 50°C

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit values
No exposure value assigned for this material by Safe Work, Australia.

Biological Limit Values
No biological limits allocated.

Appropriate Engineering Controls
This substance is hazardous and should be used with a local exhaust ventilation system, drawing vapours away from workers' breathing zone. If the engineering controls are not sufficient to maintain concentrations of vapours/mists below the exposure standards, suitable respiratory protection must be worn.

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**	Hazy liquid
Colour	Not available	**Odour**	Musky
Melting Point	Not applicable	**Boiling Point**	Not available
Solubility in Water	Completely miscible	**Specific Gravity**	1.021 at 20°C/4°C
pH	7.4	**Vapour Pressure**	No significant volatility, aqueous solution
Vapour Density (Air=1)	Not applicable	**Evaporation Rate**	Not available
Density	1.021g/cm³ (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	**Kinematic Viscosity**	6.03cSt@20°C, 2.89cSt@40°C
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, unlined mild steel. Compatible materials for storage: see section 7.2

Hazardous Decomposition Products
Thermal decomposition may result in the release of toxic and/or irritating fumes and gases.

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

Hazardous Polymerization
Not available

11. TOXICOLOGICAL INFORMATION

Toxicology Information
Toxicity data for material given below.
Similar formulation

Acute Toxicity - Oral
LD50 (rat): >5000mg/kg body weight
No mortality.

Acute Toxicity - Inhalation
LC50 (rat, aerosol): No mortality.
No 4-hr LC50 at the maximum tested concentration

Acute Toxicity - Dermal
LD50 (rat): >5000mg/kg body weight
No mortality.

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
Causes serious eye irritation. On eye contact this product will cause tearing, stinging, blurred vision, and redness.

Rabbit, 3 animals, OECD 405 test:
Conjunctival redness, individual EU scores: 2.00; 2.00; 2.00
Conjunctival swelling, individual EU scores: 1.67; 1.00; 1.00
Corneal opacity, individual EU scores: 1.67; 0.00; 1.67
Iris lesions, individual EU scores: 0.67; 0.00; 0.00
Days to heal: 10

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.

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.

Pelargonic and related fatty acids

Genotoxicity
Not genotoxic on the basis of weight of evidence analysis

Carcinogenicity
Not carcinogenic to laboratory animals after dermal administration

Reproductive/Developmental Toxicity
Not developmentally toxic to laboratory animals.

12. ECOLOGICAL INFORMATION

Ecotoxicity
Harmful to aquatic life.

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
LC50 (Rainbow trout (Oncorhynchus mykiss)): 98mg/l/96h

Acute Toxicity - Daphnia
EC50 (Water flea (Daphnia magna), static): 115mg/l/48h

Acute Toxicity - Algae
ErC50 (Green algae (seudokirchneriella subcapitata)), growth rate, static):>60mg/l/72h
EC50 (Duckweed (Lemna gibba), front number, static): 152mg/l/7days
NOEC (Duckweed (Lemna gibba), static): 20mg/l/7days

Other Information
Arthropod toxicity
Honey bee (Apis mellifera):
LD50(oral):>7841µg/bee/48h
Honey bee (Apis mellifera):

LD50(Contact): >1078µg/bee/48h

Soil organism toxicity, invertebrates
Earth worm (Eisenia foetida):
Acute toxicity, 14 days, LC50:>10000mg/kg dry soil
Soil organism toxicity, microorganisms
Nitrogen and carbon transformation test:
388 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

Bioacumulation
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):
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.

U.N. Number
None Allocated

UN proper shipping name
None Allocated

Transport hazard class(es)
None Allocated

Special Precautions for User
Not available

IMDG Marine pollutant
No

Transport in Bulk
Not available

15. REGULATORY INFORMATION

Regulatory information
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
MSDS Reviewed: October 2015
MSDS Supersedes: October 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

© Copyright Chemical Safety International Pty Ltd
Copyright in the source code of the HTML, PDF, XML, XFO and any other electronic files rendered by an Infosafe system for Infosafe MSDS displayed is the intellectual property of Chemical Safety International Pty Ltd.
Copyright in the layout, presentation and appearance of each Infosafe MSDS displayed is the intellectual property of Chemical Safety International Pty Ltd.
The compilation of MSDS's displayed is the intellectual property of Chemical Safety International Pty Ltd.
Copying of any MSDS displayed is permitted for personal use only and otherwise is not permitted. In particular the MSDS's displayed cannot be copied for the purpose of sale or licence or for inclusion as part of a collection of MSDS without the express written consent of Chemical Safety International Pty Ltd.