

# Safety Data Sheet

Infosafe No™ LQ29I Issue Date : April 2013 ISSUED by SINOCHNZ

Product Name : ROUNDUP® 360 PRO

Classified as hazardous

## 1. Identification

**GHS Product Identifier** ROUNDUP® 360 PRO

**Company Name** SINOCHEM INTERNATIONAL AUSTRALIA PTY LTD (ABN 74 160 164 616)

**Address** Level 8 / 606 St Kilda Road Melbourne  
Vic 3004 Australia

**Telephone/Fax Number** Tel: +61 3 9520 8888

**Emergency phone number** New Zealand: 0800 734 607 or +64 4 473 4607

**Recommended use of the chemical and restrictions on use** For weed control in agriculture, horticulture, drains, aquatic areas, and other uses including general weed control. Recommended prior to sowing pasture, crops and for the control of a wide range of brushweeds.

## 2. Hazard Identification

**GHS classification of the substance/mixture** Classified as Hazardous according to the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001, New Zealand.  
Classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433:2012 Transport of Dangerous Goods on Land.  
HSNO Classification:

**Hazard Statement (s)** 9.1B - Substance that is ecotoxic in the aquatic environment  
H411 Toxic to aquatic life with long lasting effects.

**Pictogram (s)** Environment



**Precautionary statement – Prevention** P103 Read label before use.  
P273 Avoid release to the environment.

**Precautionary statement – Response** P391 Collect spillage.

**Precautionary statement – Disposal** P501 In the case of a substance that is in compliance with a HSNO approval other than a Part 6A (Group Standards) approval, a label must provide a description of one or more appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Regulations 2001. This may also include any method of disposal that must be avoided. See Section 13 for disposal details.

## 3. Composition/information on ingredients

**Chemical Characterization** Liquid

<b>Ingredients</b>	<b>Name</b>	<b>CAS</b>	<b>Proportion</b>
	Isopropylamine salt of glyphosate	38641-94-0	360 g/L
	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 contact** If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing for several minutes until all contaminants are washed

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<b>First Aid Facilities</b>	out completely. If symptoms develop and persist seek medical attention. Eyewash and normal washroom facilities.
<b>Advice to Doctor</b>	Treat symptomatically.
<b>Other Information</b>	For advice in an emergency, contact a Poisons Information Centre (Phone New Zealand 0800 POISON / 0800 764 766) or a doctor at once.

## 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Use extinguishing media that are suitable for the surrounding combustible materials.
<b>Hazards from Combustion Products</b>	Under fire conditions this product may emit toxic and/or irritating fumes and gases including carbon monoxide and carbon dioxide.
<b>Specific hazards arising from the chemical</b>	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.
<b>Hazchem Code</b>	•3Z
<b>Decomposition Temp.</b>	Not available
<b>Precautions in connection with Fire</b>	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

<b>Emergency Procedures</b>	Wear appropriate personal protective equipment and clothing to minimise 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.
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## 7. Handling and storage

<b>Precautions for Safe Handling</b>	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. Maintain high standards of personal hygiene i.e. Washing hands prior to eating, drinking, smoking or using toilet facilities.
<b>Conditions for safe storage, including any incompatibilities</b>	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.
<b>Unsuitable Materials</b>	Solutions of ROUNDUP 360 PRO should be mixed, stored and applied only in stainless steel, aluminum, brass, copper, fibreglass, plastic or plastic lined containers. Do not mix, store or apply this product or spray solutions of the product in galvanised steel or unlined steel (except stainless steel) containers or spray tanks. ROUNDUP 360 PRO or solutions of ROUNDUP 360 PRO react with such containers to produce hydrogen gas which may form a highly combustible gas mixture which can flash or explode if ignited.
<b>Additional information on precautions for use</b>	Avoid contact with foliage or green stems or fruit of crops, desirable plants and trees, since severe injury or death may occur. Do not allow drift to occur outside the target area.

## 8. Exposure controls/personal protection

<b>Occupational exposure limit values</b>	No exposure standards have been established for this 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. Environmental Exposure Limit (EEL) for glyphosate = 0.37mg/L
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<b>Biological Limit Values</b>	No biological limits allocated.
<b>Appropriate engineering controls</b>	Provide sufficient ventilation to keep airborne levels as low as possible. Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate, a local exhaust ventilation system is required.
<b>Respiratory Protection</b>	If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable mist 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.
<b>Eye Protection</b>	Safety glasses with side shields, goggles or full-face shield as appropriate should be used. Final choice of appropriate eye/face protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.
<b>Hand Protection</b>	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.
<b>Body Protection</b>	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

<b>Form</b>	Liquid
<b>Appearance</b>	Clear amber liquid
<b>Odour</b>	Faint amine odour.
<b>Decomposition Temperature</b>	Not available
<b>Melting Point</b>	Not available
<b>Boiling Point</b>	>100°C (water)
<b>Solubility in Water</b>	Soluble
<b>Specific Gravity</b>	1.16
<b>pH</b>	4.5-4.9
<b>Vapour Pressure</b>	Not available
<b>Vapour Density (Air=1)</b>	Not available
<b>Evaporation Rate</b>	Not available
<b>Odour Threshold</b>	Not available
<b>Viscosity</b>	Not available
<b>Volatile Component</b>	N/A
<b>Flash Point</b>	None
<b>Flammability</b>	Non combustible material.
<b>Auto-Ignition Temperature</b>	Not available
<b>Flammable Limits - Lower</b>	Not available
<b>Flammable Limits - Upper</b>	Not available

## 10. Stability and reactivity

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<b>Reactivity</b>	Reacts with incompatibles.
<b>Chemical Stability</b>	When stored appropriately this product should show no significant degradation for 5 years from the date of manufacture.
<b>Conditions to Avoid</b>	Extremes of temperature and direct sunlight.
<b>Incompatible Materials</b>	Corrosive to mild steel, galvanised steel and zinc. Non corrosive to stainless steel, polyethylene, aluminium, fibreglass and plastics.
<b>Hazardous Decomposition Products</b>	Thermal decomposition may result in the release of toxic and/or irritating fumes and gases including carbon monoxide, carbon dioxide and oxides of nitrogen.
<b>Possibility of hazardous reactions</b>	This product reacts with galvanised steel or unlined mild steel to produce hydrogen, a highly flammable gas that could explode. Avoid contact of the concentrate with strong alkalis and alkaline materials such as lime. Such contact may release isopropylamine vapour with a fish like odour, which can be an irritant to eyes.
<b>Hazardous Polymerization</b>	Hazardous polymerisation is not possible.

## 11. Toxicological Information

<b>Acute Toxicity - Oral</b>	LD50(rat): >5,000 mg/kg for a similar formulation.
<b>Acute Toxicity - Dermal</b>	LD50(rabbit): >5,000 mg/kg for a similar formulation.
<b>Ingestion</b>	Ingestion of this product may irritate the gastric tract causing nausea and vomiting. Ingestion of a large quantity of the undiluted product may result in hypotension and pulmonary oedema.
<b>Inhalation</b>	Inhalation of product vapours may cause irritation of the nose, throat and respiratory system.
<b>Skin</b>	May be irritating to skin. The symptoms may include redness, itching and swelling.
<b>Eye</b>	May be irritating to eyes. The symptoms may include redness, itching and tearing.
<b>Respiratory sensitisation</b>	Not expected to be a respiratory sensitiser.
<b>Skin Sensitisation</b>	Not expected to be a skin sensitiser.
<b>Germ cell mutagenicity</b>	Not considered to be a mutagenic hazard.
<b>Carcinogenicity</b>	Not considered to be a carcinogenic hazard.
<b>Reproductive Toxicity</b>	Not considered to be toxic to reproduction.
<b>STOT-single exposure</b>	Not expected to cause toxicity to a specific target organ.
<b>STOT-repeated exposure</b>	Not expected to cause toxicity to a specific target organ through repeated or prolonged exposure.
<b>Skin corrosion/irritation</b>	Other effects: Skin blanching, eschar formation.
<b>Other Information</b>	The Australian Acceptable Daily Intake (ADI) for glyphosate for a human is 0.3 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 30 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Comm. Dept. of Health and Ageing Office of Chemical Safety and Environmental Health, 'ADI List', June 2011).

## 12. Ecological information

<b>Ecotoxicity</b>	Toxic to aquatic life with long lasting effects.
<b>Persistence and degradability</b>	Adsorption studies indicate that glyphosate has very low mobility. Average field half life of glyphosate is 47 days.
<b>Mobility</b>	Glyphosate is strongly adsorbed by soil and therefore becomes practically immobile. Microbial degradation is the major cause of loss from soil with liberation of carbon dioxide.

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<b>Bioaccumulative Potential</b>	Glyphosate is not bio accumulative, BCF = <1 for bluegill sunfish. Log Pow: -3.2 (25°C) (glyphosate).
<b>Known Harmful Effects on the Environment</b>	Glyphosate products do not appear to pose any threat to birds. Harmful to fish and other aquatic organisms.
<b>Other Precautions</b>	Do not spray in high winds. Glyphosate is a non-selective contact herbicide. Spray drift can cause damage.
<b>Acute Toxicity - Fish</b>	LC50 (96hr) bluegill sunfish = 45mg/L for glyphosate as the isopropylamine salt.
<b>Acute Toxicity - Daphnia</b>	LC50 (48h) = 930mg/L for glyphosate as the isopropylamine salt.
<b>Acute Toxicity - Algae</b>	EC50 (96h) Skeletonema costatum (diatom) = 1.2mg/L for glyphosate isopropylamine salt.
<b>Acute Toxicity - Other Organisms</b>	The following data is for the active ingredient, glyphosate. Birds: Not toxic to birds. LD50 for bobwhite quail is >3850 mg/kg Bees: Not toxic to bees. LD50 >100 ig/bee.
<b>Other Information</b>	Environmental Exposure Limit (EEL) for glyphosate = 0.37mg/L.

### 13. Disposal considerations

<b>Disposal Considerations</b>	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.
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### 14. Transport information

<b>Transport Information</b>	<p>Road and Rail Transport: This material is classified as a Class 9 - Miscellaneous Substances according to NZS 5433:2012 Transport of Dangerous Goods on Land. Must not be loaded in the same freight container or on the same vehicle with: - Class 1, Explosives Class 9 dangerous goods that contain organic matter must not be loaded in the same bulk container or tankwagon with dangerous goods of Division 5.1 unless the Class 9 and Division 5.1 dangerous goods are in separate compartments of a bulk container or tankwagon. Goods of packing group II or III may be loaded in the same freight container or on the same vehicle if transported in segregation devices. Segregation devices may be used to segregate Dangerous goods of Class 9 when the nature of those dangerous goods requires them to be segregated from dangerous goods of Class 3, 4, 5, 6 or 8 or from food items.</p> <p>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 Glyphosate) DG Class: 9 Packaging Group: III EMS No.: F-A, S-F Special provisions: 274, 335</p> <p>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 Glyphosate) Class: 9 Packing Group: III Label: Miscellaneous Packing Instruction: 964 (For passenger and cargo aircraft) Packing Instruction: 964 (For cargo aircraft only) Special provisions: A97, A158</p>
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<b>U.N. Number</b>	3082
<b>UN proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (Contains Glyphosate)
<b>Transport hazard class(es)</b>	9
<b>Hazchem Code</b>	•3Z
<b>Packing Group</b>	III
<b>EPG Number</b>	9C1
<b>IERG Number</b>	47
<b>IMDG Marine pollutant</b>	Yes

## 15. Regulatory information

<b>Regulatory Information</b>	Classified as Hazardous according to the New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001. HSNO: HSNO Controls for Soluble concentrate containing 300 - 450 g/litre glyphosate as the isopropylamine salt Registered pursuant to the ACVM Act 1997, No. P005014.
<b>HSNO Approval Number</b>	HSR000767

## 16. Other Information

<b>Date of preparation or last revision of SDS</b>	SDS Created: April 2013
<b>Literature References</b>	Workplace Exposure Standards and Biological Exposure Indices , Department of Labour, Health & Safety. Transport of Dangerous goods on land NZS 5433. Preparation of Safety Data Sheets - Approved Code of Practice Under the HSNO Act 1996 (HSNO CoP 8-1 09-06). Assigning a hazardous substance to a group standard. American Conference of Industrial Hygienists (ACGIH). ...End Of MSDS...

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