

1. IDENTIFICATION

Product Identifier

KELPIE® GLY 540 SL HERBICIDE

Recommended Use of the Chemical and Restrictions on Use

Herbicide.

Details of Manufacturer or Importer

SINOCHEM INTERNATIONAL AUSTRALIA PTY LTD

ABN: 74 160 164 616

Level 8 / 606 St Kilda Road

Melbourne, Victoria, 3004

Australia

Tel: +61 3 9520 8888

Emergency Phone Number

Australia: 1800 033 111

2. HAZARD IDENTIFICATION

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 Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition).

Environmentally Hazardous Substances meeting the descriptions of UN 3077 or 3082 are not subject to the provisions of the Australian Code for the Transport of Dangerous Goods by Road and Rail when transported by road or rail in packagings that do not incorporate a receptacle exceeding 500 kg(L); or IBCs.

Classification of the substance or mixture:

Acute Oral Toxicity - Category 4

Carcinogenicity - Category 2

Specific target organ toxicity (repeated exposure) - Category 2

Acute Aquatic Toxicity - Category 1

Chronic Aquatic Toxicity - Category 1

Signal Word: WARNING



Hazard Statement(s):

H302 Harmful if swallowed.

H351 Suspected of causing cancer.

H373 May cause damage to organs through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statement(s):**Prevention:**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe dust / fume / gas / mist / vapours / spray.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

P281 Use personal protective equipment as required.

Response:

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P330 Rinse mouth.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P314 Get medical advice/attention if you feel unwell.

P391 Collect spillage.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Product Description: Active Ingredient: Glyphosate, present as potassium salt

Components	CAS Number	Proportion
Glyphosate, present as potassium salt	1071-83-6	540 g/L
Ingredients determined not to be hazardous	-	Balance

4. FIRST-AID MEASURES

For advice, contact a Poisons Information Centre (e.g. phone Australia 131 126; New Zealand 0800 764 766) or a doctor.

Ingestion:

Wash out mouth with water. Do not induce vomiting. Keep patient at rest and seek medical advice.

Inhalation:

Remove victim to fresh air. Seek medical advice if symptoms are experienced.

Eye Contact:

Rinse immediately with plenty of water for at least 15 minutes, holding eye open and taking care to rinse under eyelids as well. If irritation persists seek medical attention.

Skin Contact:

Wash off skin immediately with soap and plenty of water. Remove all contaminated clothing and shoes. Seek medical advice if irritation persists. Launder contaminated clothing before re-use.

Advice to Doctor:

Treat symptomatically. No known specific antidote.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

Fine water spray, normal foam, dry agent (carbon dioxide, dry chemical powder).

Hazchem Code: Not allocated.

Specific hazards arising from the chemical:

Decomposition products are toxic and corrosive. There is little or no chance of an explosion from this product if involved in a fire.

Special protective equipment and precautions for fire-fighters:

Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) operated in positive pressure mode and full protective clothing including face mask, face shield and gauntlets. Fight fire from safe location. This product should be prevented from entering drains and watercourses.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures/ Environmental Precautions

If possible contain the spill. As a water based product, if spilt on electrical equipment the product will cause short-circuits. Place inert absorbent, non-combustible material onto spillage. Use clean non-sparking tools to collect the material and place into suitable labelled containers for subsequent recycling or disposal. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways has occurred advise local emergency services.

Personal precautions/Protective equipment/Methods and materials for containment and cleaning up:

Wear appropriate personal protective equipment and clothing to prevent exposure. Avoid accidents, clean up immediately. Slippery when spilt. Clear area of all unprotected personnel. Avoid breathing in dust.

7. HANDLING AND STORAGE

Precautions for safe handling:

Avoid skin and eye contact. Use only in a well ventilated area. Thoroughly clean equipment after use. Keep out of reach of children. When using do not eat, drink or smoke. Keep containers sealed when not in use. Do not handle until all safety precautions have been read and understood.

Conditions for safe storage, including any incompatibilities:

Store in a cool, dry place away from direct sunlight. Store away from food, drink and animal feeding stuffs. Keep only in the original container. Store away from incompatible materials described in Section 10. Keep containers closed when not in use - check regularly for spills.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control Parameters:

Exposure values at the TWA (Time Weighted Average) means the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. A time weight average (TWA) concentration for an 8 hour day, and 5 day week has not been established by Safe Work Australia for any of the ingredients in this product. There is a blanket recommendation of 10mg/m³ for inspirable dusts or mists when limits have not otherwise been established.

Appropriate engineering controls:

Ensure ventilation is adequate and that air concentrations of components are controlled below quoted Workplace Exposure Standards. Keep containers closed when not in use.

If in the handling and application of this material, safe exposure levels could be exceeded, the use of engineering controls such as local exhaust ventilation must be considered and the results documented. If achieving safe exposure levels does not require engineering controls, then a detailed and documented risk assessment using the relevant Personal Protective Equipment (PPE) (refer to PPE section below) as a basis must be carried out to determine the minimum PPE requirements.

Individual protection measures, such as Personal Protective Equipment (PPE):

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES, RESPIRATOR.



Wear overalls, safety glasses and impervious gloves. Use with adequate ventilation. If determined by a risk assessment an inhalation risk exists, wear an organic vapour respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Viscous liquid
Colour:	Blue
Odour:	Characteristic
Solubility:	Completely miscible in water
Specific gravity:	1.356
Relative Vapour Density:	Not applicable
Flash point (°C):	Not applicable
Flammability limits (%):	Non flammable
Auto-ignition temperature (°C):	Not available
Boiling Point/Range (°C):	Not available
pH:	4.7

10. STABILITY AND REACTIVITY

Reactivity:	Reacts with incompatible materials.
Chemical stability:	Stable under normal conditions. Reacts with oxidizing agents.
Hazardous Polymerization:	This product is unlikely to spontaneously polymerise.
Conditions to avoid:	Heat, flames and other sources of ignition.
Incompatible materials:	Reacts with unlined mild steel or galvanized steel to produce hydrogen.
Hazardous decomposition products:	This product is unlikely to spontaneously decompose.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Ingestion:	Swallowing can result in nausea, vomiting, diarrhoea, and gastrointestinal irritation.
Eye contact:	May be an eye irritant. May cause physical irritation to the eyes.
Skin contact:	Contact with skin may result in irritation.
Systemic effects:	According to studies on animals glyphosate caused no changes in blood, kidneys or liver. The studies were conducted at doses up to 500 mg/kg.

- Acute toxicity:** No LD50 data available for the product. However, for the major constituent:
Oral LD₅₀ (rat) > 5000 mg/kg
Dermal LD₅₀ (rat) > 5000 mg/kg
- Chronic effects:** The EPA has stated that there is sufficient evidence to conclude that glyphosate is not carcinogenic in humans.

12. ECOLOGICAL INFORMATION

- Ecotoxicity:** Prevent this material entering waterways, drains and sewers.
- Mobility:** Glyphosate is highly absorbed on most soils especially those with organic content. The compound is so strongly attracted to the soil that little is expected to leach from applied area.
- Persistence/degradability:** Average field half-life of glyphosate is 47 days.
- Aquatic toxicity:** Glyphosate is practically non-toxic to fish.
48hr EC50 (Daphnia magna): >8.0 mg/L.
- Acute Toxicity (other):** Glyphosate is non-toxic to birds and bees

LD50 (bobwhite quail): >3850 mg/kg.
LD50 (bees): >100 µg/bee.

13. DISPOSAL CONSIDERATIONS

Disposal methods:

Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site.

If recycling, replace cap and return clean containers to recycler or designated collection point.

If not recycling, break, crush or puncture and bury containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should NOT be burnt.

For refillable containers, empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

14. TRANSPORT INFORMATION

Road and Rail Transport

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG CODE) for Transport by Road and Rail.

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.

15. 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 (SUSMP): S5.

This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA). Approval Number 68917.

16. OTHER INFORMATION

® KELPIE is a registered trademark of Sinochem International Crop Care (Overseas) Pty Ltd.

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