

1. IDENTIFICATION

Product Identifier

KELPIE® G-FOS 200 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.

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition).

Classification of the substance or mixture:

Acute Toxicity – Category 4

Eye irritation – Category 4

Reproductive toxicity – Category 1B

STOT (repeated exposure) – Category 2

Signal Word: DANGER, Irritant, Health hazard



Hazard Statement(s):

H312 Harmful in contact with skin.
H310 Causes serious eye irritation.
H332 Harmful if inhaled.
H302 Harmful if swallowed.
H360 May damage fertility or the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary Statement(s):

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.

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 skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response:

General

P308+P313 IF exposed or concerned: Get medical advice/ attention.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.

Inhalation

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Ingestion

P331 Do NOT induce vomiting.

Skin

P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P363 Wash contaminated clothing before reuse.

Eye

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.

Storage:

P405 Store locked up.

Disposal:

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

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Product Description: Active ingredient: Glufosinate-ammonium

Components	CAS Number	Proportion
Glufosinate-ammonium	77182-82-2	10-30 %
1-methoxy-2-propanol	107-98-2	1-15 %
Ingredients determined not to be hazardous	-	Balance

4. FIRST-AID MEASURES

For advice in an emergency, contact a Poisons Information Centre (Phone Australia 131 126) or a doctor at once.

Inhalation:

If inhaled, remove affected person from contaminated area. Apply artificial respiration if not breathing. Seek medical attention.

Skin Contact:

Remove all contaminated clothing immediately. Wash affected area thoroughly with soap and water. Wash contaminated clothing before reuse or discard. 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.

Ingestion:

Do not induce vomiting. Wash out mouth thoroughly with water. Seek immediate medical attention.

First Aid Facilities:

Eye wash, safety shower and normal washroom facilities.

Advice to Doctor:

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

Use carbon dioxide, dry chemical, alcohol resistant foam, water fog or water mist.

Hazchem Code: Not allocated.

Specific hazards arising from the substance or mixture:

This product may burn and/or decompose if exposed to fire. Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including carbon monoxide, carbon dioxide, ammonia and oxides of nitrogen.

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 to prevent exposure to vapours or fumes. Water spray may be used to cool down heat-exposed containers. Fight fire from safe location. This product should be prevented from entering drains and watercourses.

6. ACCIDENTAL RELEASE MEASURES

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

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. Wear appropriate personal protective equipment and clothing to prevent exposure.

Emergency procedures/Environmental precautions:

Extinguish or remove all sources of ignition and stop leak if safe to do so. Increase ventilation. Evacuate all unprotected personnel. 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. Avoid exposure. Do not handle until all safety precautions have been read and understood. It is recommended that pregnant or breastfeeding women should not handle this product unless adequate exposure protection can be assured at all times. Female personnel planning pregnancy should be made aware of the potential risks.

Conditions for Safe Storage, Including any Incompatibilities

Store in a cool, dry, well-ventilated area, out of direct sunlight. Protect from freezing. 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.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control Parameters: No exposure value assigned for this material by Safe Work, Australia. However, Workplace Exposure

1-methoxy-2-propanol: 8hr TWA = 369 mg/m³ (100 ppm), 15 min STEL = 553 mg/m³ (150 ppm)

As published by Safe Work Australia Workplace Exposure Standards for Airborne Contaminants.

TWA - The time-weighted average airborne concentration of a particular substance when calculated over an eight-hour working day, for a five-day working week.

STEL (Short Term Exposure Limit) - the airborne concentration of a particular substance calculated as a time-weighted average over 15 minutes, which should not be exceeded at any time during a normal eight hour work day. According to current knowledge this concentration should neither impair the health of, nor cause undue discomfort to, nearly all workers.

These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

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:	Liquid
Colour:	Blue to bluish green
Odour:	Weakly pungent
Solubility:	Soluble
Specific gravity:	Not available
Relative Vapour Density:	Not available
Flash point (°C):	Not available
Flammability limits (%):	Non flammable
Auto-ignition temperature (°C):	Not available
Boiling Point/Range (°C):	Not available
pH:	6.0 ± 2 (5% aqueous solution)

10. STABILITY AND REACTIVITY

Reactivity:	Reacts with incompatible materials.
Chemical stability:	Stable under normal conditions of storage and handling.
Hazardous Polymerization:	This product will not spontaneously polymerise.
Conditions to avoid:	Heat, flames and other sources of ignition.
Incompatible materials:	Strong oxidizing agents.
Hazardous decomposition products:	Thermal decomposition may result in the release of carbon monoxide, carbon dioxide, ammonia and oxides of nitrogen.

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:	May be harmful if swallowed. Ingestion of this product can cause irritation to the mouth, throat, oesophagus and stomach with symptoms of nausea, abdominal discomfort, vomiting and diarrhoea.
Eye contact:	On eye contact this product will cause tearing, stinging, blurred vision, and redness.
Skin contact:	Harmful in contact with skin. Product can be absorbed through skin with resultant harmful systemic effects. May be irritating to skin. The symptoms may include redness, itching and swelling. Repeated exposure may cause skin dryness and cracking and may lead to dermatitis.

- Inhalation:** Harmful if inhaled. Inhalation of product vapours can cause irritation of the nose, throat and respiratory system.
- Systemic effects:** May cause damage to organs through prolonged or repeated exposure. Not expected to be a respiratory sensitiser.
- Chronic effects:** Not considered to be a carcinogenic hazard. No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. May damage fertility or the unborn child. Classified as a known or presumed human reproductive or developmental toxicant. Not considered to be a mutagenic hazard.
- Other Information:** Does not inhibit acetylcholinesterase activities. No evidence of delayed neurotoxicity was noted in hens. Neurobehavioral effects (e.g., hypersensitivity, tremors, convulsions) related to stimulation of the central nervous system (CNS) were observed in some studies but only at lethal or near lethal dose levels.
- Acute toxicity:** No LD50 data available for the product. However, for the active constituent:
Oral LD₅₀ (rat): >2000 mg/kg
Dermal LD₅₀ (rat): >1900 mg/kg

12. ECOLOGICAL INFORMATION

- Ecotoxicity:** Prevent this material entering waterways, drains and sewers.
- Persistence/degradability:** Photolytic half-life: >300 days.
- Mobility:** Glufosinate-ammonium is soluble in water. Half-life in soil is 8 days.
- Aquatic toxicity:** Glufosinate-ammonium has a low acute toxicity to birds, fish, and other aquatic organisms.
- 96 hr LC₅₀ (Bluegill sunfish): >79mg/L
96 hr LC₅₀ (Rainbow trout): >42mg/L
96 hr LC₅₀ (Carp): >80mg/L
48 hr LC₅₀ (Daphnia magna): >100mg/L
- Acute Toxicity (Other):** LC₅₀: acute oral >2000 mg/kg in avian, acute dietary >5000 ppm in avian, reproduction 400 ppm in avian, contact >600 µg/bee in honeybee.

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.

UN Number: UN 3082 (Environmentally hazardous substance, liquid, n.o.s.)

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.

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 70055.

16. OTHER INFORMATION

Date of preparation or last revision of SOS

September 2015

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