



# SAFETY DATA SHEET

## KELPIE® G-FOS 200 HERBICIDE

Infosafe No.: LQ3SI  
Version No.: 1.0  
ISSUED Date: 18/09/2014  
ISSUED BY SINOCHEN  
INTERNATIONAL AUSTRALIA PTY LTD

### 1. IDENTIFICATION

---

**GHS Product Identifier**

KELPIE® G-FOS 200 HERBICIDE

**Company Name**

SINOCHEN 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**

Australia: 1800 033 111

**Recommended use of the chemical and restrictions on use**

Agricultural herbicide for use as described on the label.

### 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)

**Classification:**

Acute Toxicity - Dermal: Category 4

Acute Toxicity - Inhalation: Category 4

Eye Damage/Irritation: Category 2

Toxic to Reproduction: Category 1

STOT Repeated Exposure Category 2

**Signal Word (s)**

DANGER

### **Hazard Statement (s)**

H312 Harmful in contact with skin.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

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.

### **Pictogram (s)**

Exclamation mark, Health hazard



### **Precautionary statement – 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.

### **Precautionary statement – 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.

### **Precautionary statement – Storage**

P405 Store locked up.

### **Precautionary statement – Disposal**

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

### **Supplemental Information**

The information under this heading is not mandatory under WHS Regulations. It is provided as information on other GHS hazard classes and categories and/or environmental hazards that are outside the scope of the WHS Regulations.

GHS classification: Acute Toxicity - Oral: Category 5. Hazard statement: H303.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

---

#### Ingredients

Name	CAS	Proportion
Glufosinate ammonium	77182-82-2	10-30 %
Ingredients determined not to be hazardous, including water.		Balance

### 4. FIRST-AID MEASURES

---

#### Inhalation

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

#### Ingestion

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

#### Skin

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.

#### First Aid Facilities

Eye wash, safety shower and normal washroom facilities.

#### Advice to Doctor

Treat symptomatically.

#### Other Information

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

### 5. FIRE-FIGHTING MEASURES

---

#### Suitable Extinguishing Media

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

### **Hazards from Combustion Products**

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.

### **Specific Hazards Arising From The Chemical**

This product may burn and/or decompose if exposed to fire.

### **Precautions in connection with Fire**

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**

---

### **Emergency Procedures**

Wear appropriate personal protective equipment and clothing to prevent exposure. Extinguish or remove all sources of ignition and stop leak if safe to do so. Increase ventilation. Evacuate all unprotected personnel. 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 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/PERSONAL PROTECTION**

---

### **Occupational exposure limit values**

No exposure value assigned for this material by Safe Work, Australia. 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. 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 vapour/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.

### **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 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. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

### **Body Protection**

Suitable protective workwear should be worn when working with this material, e.g. cotton overalls buttoned at neck and wrist.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

---

### **Appearance**

Liquid

### **Colour**

Blue to bluish green

### **Odour**

Weakly pungent

### **Melting Point**

Not available

### **Boiling Point**

Not available

### **Solubility in Water**

Soluble

### **pH**

6.0+/-2 (5% aqueous solution)

**Vapour Pressure**

Not available

**Vapour Density (Air=1)**

Not available

**Evaporation Rate**

Not available

**Odour Threshold**

Not available

**Viscosity**

Not available

**Partition Coefficient: n-octanol/water**

Not available

**Density**

1.10g/cm<sup>3</sup>(20°C)

**Flash Point**

Not applicable

**Flammability**

Not flammable

**Auto-Ignition Temperature**

Not available

**Flammable Limits - Lower**

Not available

**Flammable Limits - Upper**

Not available

**10. STABILITY AND REACTIVITY**

---

**Reactivity**

Reacts with incompatible materials.

**Chemical Stability**

Stable under normal conditions of storage and handling.

**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 toxic and/or irritating fumes, smoke and gases including carbon monoxide, carbon dioxide, ammonia and oxides of nitrogen.

### **Hazardous Polymerization**

Will not occur.

## **11. TOXICOLOGICAL INFORMATION**

---

### **Toxicology Information**

The available toxicity data for material given below.

#### **Acute Toxicity - Oral**

LD50(rat): >2000 mg/kg (female)

#### **Acute Toxicity - Inhalation**

LC50 (rat):>1.16 mg/l/4h (maximum attainable concentration)

#### **Acute Toxicity - Dermal**

LD50(rat): 1900.2mg/kg (female and male)

#### **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.

#### **Inhalation**

Harmful if inhaled. Inhalation of product vapours can cause irritation of the nose, throat and respiratory system.

#### **Skin**

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.

Skin irritation, rabbit: No irritation

#### **Eye**

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

Eye irritation, rabbit: Moderate irritation

#### **Respiratory sensitisation**

Not expected to be a respiratory sensitiser.

#### **Skin Sensitisation**

Not expected to be a skin sensitiser.

#### **Germ cell mutagenicity**

Not considered to be a mutagenic hazard.

Active ingredient: No mutagenic activity was detected in a battery of mutagenicity tests.

#### **Carcinogenicity**

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.

#### **Reproductive Toxicity**

May damage fertility or the unborn child. Classified as a Known or presumed human reproductive or developmental toxicant.

#### **STOT-single exposure**

Not expected to cause toxicity to a specific target organ.

#### **STOT-repeated exposure**

May cause damage to organs through prolonged or repeated exposure.

#### **Aspiration Hazard**

Not expected to be an aspiration 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.

## **12. ECOLOGICAL INFORMATION**

---

#### **Ecotoxicity**

The available ecological data for the technical grade active ingredient is given below.

#### **Persistence and degradability**

Photolytic half-life: >300 days.

#### **Mobility**

Not available

#### **Bioaccumulative Potential**

No accumulation

#### **Other Adverse Effects**

Not available

#### **Environmental Protection**

Prevent this material entering waterways, drains and sewers.

#### **Acute Toxicity - Fish**

LC50(bluegill sunfish): 79mg/l/96h

LC50(rainbow trout): 42mg/l/96h

LC50(carp): 80mg/l/96h

#### **Acute Toxicity - Daphnia**

EC50/LC50: >100mg/l/48h

#### **Acute Toxicity - Other Organisms**

LC50(freshwater fish and invertebrates):560-1000mg/l



EC50/LC50(marine and estuarine organisms): 7.2-125mg/l

Chronic toxicity to aquatic invertebrates:

NOEC: 32mg/l in freshwater invertebrates.

Toxicity in other non mammal terrestrial species:

LD50/LC50: acute oral >2000mg/kg in avian, acute dietary >5000ppm in avian, reproduction 400ppm in avian, contact >600ög/bee in honeybee.

### 13. DISPOSAL CONSIDERATIONS

---

#### Disposal considerations

Dispose of waste according to 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

#### IMDG Marine pollutant

No

### 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

## **Australia (AICS)**

All components of this product are listed on the Inventory or exempted.

## **16. OTHER INFORMATION**

---

### **Date of preparation or last revision of SDS**

SDS Created: September 2014

### **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.