1. IDENTIFICATION

Product Identifier

KELPIE® AMINE 625 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. HAZARDS 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
Skin sensitisation – Category 1
Eye damage – Category 1
STOT (single exposure) – Category 3
Hazardous to the aquatic environment (chronic) – Category 3

Signal Word: DANGER, Corrosive

Hazard Statement(s):

H302 Harmful if swallowed
H317 May cause an allergic skin reaction
H318 Causes serious eye damage
H335 May cause respiratory irritation
H412 Harmful to aquatic life with long lasting effects

Precautionary Statement(s):

Prevention:
P261 Avoid breathing mist/vapours/spray
P264 Wash skin thoroughly after handling
P270 Do not eat, drink or smoke when using this product
P271 Use only outdoors or in a well-ventilated area
P272 Contaminated work clothing should not be allowed out of the workplace
P280 Wear protective gloves/protective clothing/eye protection/face protection

Response:
INHALATION
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P312 Call a POISON CENTER or doctor/physician if you feel unwell
INGESTION
P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
P330 Rinse mouth
P331 Do NOT induce vomiting
SKIN
P302+P352 IF ON SKIN: Wash with plenty of soap and water
P333+P313 If skin irritation or rash occurs: Get medical advice/attention
P362 Take off contaminated clothing and wash before re-use
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.
P310 Immediately call a POISON CENTER or doctor/physician

Storage:
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
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 constituent: 2,4-Dichlorophenoxyacetic acid (present as the dimethylamine and diethanolamine salts)

Components	CAS Number	Proportion
2,4-D	94-75-7	50-70%
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.

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 until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Seek immediate 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: 3Z

Specific Hazard Arising from the Chemical:

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, hydrogen chloride, phosgene.

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

Emergency Procedures /Environmental Precautions:

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.

Personal Precautions/Protective Equipment/ Methods and materials for containment and cleaning up:

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 pillage. Use clean non-sparking tools to collect the material and place into suitable labelled containers for subsequent recycling or disposal.

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.

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, Safe Work, Australia Exposure Standards(s) for constituents:

Dimethylamine: 8hr TWA = 3.8 mg/m^3 (2ppm), 15 min STEL = 11 mg/m^3 (6ppm)
Diethanolamine: 8hr TWA = 13 mg/m^3 (3ppm)

TWA (Time Weighted Average) - The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

STEL (Short Term Exposure Limit) - The average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

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:	Light brown
Odour:	Characteristic
Solubility:	Soluble
Specific gravity:	1.16 (20°C)
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:	7.0-9.0

10. STABILITY AND REACTIVITY

Reactivity:	Reacts with incompatible materials.
Chemical stability:	Stable under normal conditions of storage and handling.
Hazardous Polymerization:	Will not occur.
Conditions to avoid:	Heat, flames and other sources of ignition.
Incompatible materials:	Strong oxidising agents.
Hazardous decomposition products:	Oxides of carbon. Hydrogen chloride. Phosgene.

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:	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:	Causes eye damage. Eye contact will cause stinging, blurring, tearing, severe pain and possible burns, necrosis, permanent damage and blindness.
Skin Contact:	Contact with skin may result in irritation. The symptoms may include redness and itching. May cause an allergic skin reaction. Repeated exposure may cause skin dryness and cracking and may lead to dermatitis.
Inhalation:	May cause respiratory irritation. Inhalation of product mists can cause irritation of the nose, throat and respiratory system.
Chronic effects:	Not considered to be a carcinogenic hazard. Diethanolamine is listed as a Group 2B: Possibly carcinogenic to humans according to International Agency for Research on Cancer (IARC).

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. Average field half-life of glyphosate is 47 days.

Aquatic toxicity: 2,4-D present as DMA and DEA salts is practically non-toxic to fish, algae, and other aquatic invertebrates.

96hr LD50 (Rainbow trout) > 100 mg ae/L.
48hr LD50 (Daphnia magna) > 103 mg ae/L.

Acute toxicity (Other): 2,4-D present as DMA and DEA salts is non-toxic to birds, and slightly toxic to bees.

LD50 (bobwhite quail): > 415 mg ae/kg.
LD50 (bees): > 83 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

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Air Transport

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 Caution

This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA). APVMA Approval Number 70018.

16. OTHER INFORMATION

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

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