

SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Product Name:	Kenso Agcare Mungo 224 Herbicide
Product Type:	Group G Herbicide
Company Name:	Kenso Corporation (M) Sdn Bhd
Address:	Level 1, 98 Commercial Road, Teneriffe, 4005 QLD.
Telephone Number:	(07) 3216 1188
Emergency Telephone Number:	000 (Police or Fire Brigade) 13 11 26 (Poisons Information Centre)
Use:	For the selective control of certain broadleaf weeds and grasses in mung beans, peanuts, soybeans, green beans and seed crops of Siratro and Stylo as specified in the DIRECTIONS FOR USE table.

SECTION 2 – HAZARDS IDENTIFICATION

Hazard Classification: Classified as hazardous according to criteria of Safe Work Australia.
Not classified as a Dangerous Good according to the ADG Code.



Classification of the Hazardous Chemical:	Skin corrosion/ irritation – Category 2 Serious eye damage/eye irritation – Category 2/2A Hazardous to the aquatic environment, long term – Chronic 1
GHS Signal Word:	WARNING
Hazard statements:	H315: Causes skin irritation. H319: Causes serious eye irritation. H410: Very toxic to aquatic life with long lasting effects.
Prevention:	P264: Wash contacted areas thoroughly after handling. P273: Avoid release to the environment. P280: Wear protective gloves, protective clothing and eye or face protection.
Response:	P302+P352: IF ON SKIN: Wash with plenty of soap and water. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P321: Specific treatment (see FIRST AID on this label). P332+P313: If skin irritation occurs: Get medical advice/attention. P337+P313: if eye irritation persists: Get medical advice/attention. P362+P364: Take off contaminated clothing and wash before reuse. P391: Collect spillage.
Disposal:	P501: Dispose of contents/container as specified on the registered label

SUSMP Classification: S6
ADG Classification: Not a dangerous good.
UN Number: None allocated.

Emergency Overview

Physical Description & colour: Clear yellow to red liquid.

Odour: sweet odour.

Major Health Hazards: May irritate the eyes and skin.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS number	Proportion
Acifluorfen (present as sodium salt)	62476-59-9	22.4%
Other non-hazardous ingredients	secret	30 – 60%
Water	7732-18-5	To 100%

SECTION 4 – FIRST AID MEASURES

General Information:

If poisoning occurs, contact a doctor or Poisons Information Centre (Tel: 131126).

Inhalation:	First aid is generally not required. However if inhalation occurs, remove to fresh air, keep warm and at rest. If in doubt, contact Poison Information Centre or doctor.
Skin contact:	Remove contaminated clothing and wash affected area or skin with soap and water. Seek medical advice if irritation develops.
Eye contact:	Hold the eyes open and flush immediately with plenty of water. Remove contact lenses if present and easy to do so. Seek medical advice if irritation develops.
Ingestion:	Rinse mouth with water. Give plenty of water to drink. Do NOT induce vomiting. Seek medical assistance.

Advice to Doctor:

Treatment is symptomatic.

SECTION 5 – FIRE FIGHTING MEASURES

Fire/Explosion Hazard

There is no risk of an explosion from this product if under normal circumstances if it is involved in fire.

Dangerous decomposition or Combustion Products

Thermal decomposition

Product is likely to decompose only after heating to dryness, followed by further strong heating. Fire decomposition products may be toxic if inhaled. Take suitable protective measures.

Extinguishing Media

Not combustible. Use extinguishing media suited to burning materials.

Fire Fighting

If a significant quantity of this product is involved in a fire, call the fire brigade. There is little danger of a violent reaction or explosion if significant quantities of this product are involved in a fire. Fire-fighter should wear appropriate protective equipment with self-contained breathing apparatus.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spills and Disposal

Ensure suitable personal protection during removal of spillage. Contain spill and absorb with clay, sand, soil or proprietary absorbent (such as vermiculite). Collect spilled material and waste in sealable open-top type containers for disposal. Do not allow to enter drains, sewers and watercourses. Triple rinse containers, add rinsings to spray tanks and send containers for recycling or if not recycling, break, crush or puncture and bury empty containers in a local authority landfill or in accordance with local, state or federal regulation. Do not dispose of undiluted chemicals on site.

Personal Protection

For appropriate personal protective equipment (PPE), refer Section 8.

SECTION 7 – HANDLING AND STORAGE

Handling

Keep minimum exposure to this product. When handling this product, do not eat, drink or smoke. Avoid contact with eyes and skin. When opening container, preparing spray and using the prepared spray, wear appropriate personal protective equipment.

After each days use, wash gloves, face shield or goggles and overalls.

Storage

Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight. Keep away from contact with fertilisers and seeds.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Standards:

No exposure standards have been set for this product.

Engineering Controls

Well-ventilated area.

Personal Protection

Avoid contact with eyes and skin. Protective glasses or goggles is recommended when using this product. Wear suitable impervious elbow-length gloves, face protection and protective clothing made from rubber or PVC during handling. No respirator is necessary when using this product.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Colour:	Clear Yellow to Red
Odour:	Sweet odour

pH:	8 - 10
Vapour Pressure:	2.37 kPa @ 20°C
Specific Gravity:	1.17± 0.01
Flashpoint:	Non flammable
Solubility:	Soluble in water

SECTION 10 – STABILITY AND REACTIVITY

Reactivity

Stable under normal conditions of handling and storage.

Conditions to Avoid

Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight.

Incompatibilities

Strong acids, strong bases and strong oxidizing agents.

Fire Decomposition

This product is likely to decompose after heating to dryness, followed by further strong heating. Carbon dioxides, and if combustion is incomplete, carbon monoxide and smoke. Water is also formed. May formed hydrogen fluoride gas and other compounds of fluoride and sodium compounds. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgement and unconsciousness followed by coma and death.

Polymerisation

This product will not undergo polymerisation reactions.

SECTION 11 – TOXICOLOGICAL INFORMATION

Toxicity data (of aqueous technical)

Acute Toxicity – Oral

LD₅₀ for rats: 1590 mg/kg body weight

Acute Toxicity – Dermal

LD₅₀ for rabbits: >2000 mg/kg body weight

Acute Toxicity – Inhalation

LC₅₀ (4hr) for rats: >6.91 mg/L air

Potential Health Effects

Health Effects

May irritate the eyes and skin. Avoid contact with eyes and skin.

Acute:

- Inhalation:** Significant inhalation exposure is considered unlikely. Available data indicates that this product is not harmful and unlikely to cause any discomfort or irritation.
- Skin contact:** Product presents no hazards in normal use. However product may be irritating but unlikely to cause anything more than mild transient discomfort.
- Eye contact:** Product may be irritating to eyes but is unlikely to cause anything more than mild transient discomfort.

Ingestion: Significant ingestion exposure is considered unlikely. Product is unlikely to cause any irritation.

Reproductive Toxicity

No adverse effects were observed in rodents or their offspring when the parents were fed daily doses of acifluorfen well below lethal levels. Body weights, food consumption, fertility and pregnancy were comparable in both treated and untreated animals. However in another study, at higher doses, both parents and offspring suffered kidney lesions and death. This suggests levels high enough to cause toxicity in the mother are needed to affect reproduction.

Mutagenicity

Acifluorfen products do not caused mutations in various mutagenesis assays on both bacteria and mammalian cells.

Carcinogenicity

Insufficient data to characterize carcinogenicity as only one study of mice fed with high doses of acifluorfen for 18 months shows decreases in body weight and increases in both benign and malignant liver tumors.

Other Information

The Australian ADI for acifluorfen is set at 0.01 mg/kg/day with corresponding NOEL is set at 1 mg/kg/day. *ADI= *Acceptable Daily Intake*; NOEL: *No Observable Effect Level*. Data adopted from *Australia ADI List, June 2023*.

SECTION 12 – ECOLOGICAL INFORMATION

Very toxic to aquatic life with long lasting effects.

Ecotoxicity data (of technical)

Acute Toxicity – Bird

LD₅₀ bobwhite quail: 325 mg/kg

Acute Toxicity – Fish

LC₅₀ (96 hr) for rainbow trout: 17 mg/L

LC₅₀ (96 hr) for bluegill sunfish: 62 mg/L

EC₅₀ (48h) for Daphnia: 77 mg/L

EC₅₀ (48h) for *Selenastrum capricornutum*: >260 µg/L

Use not expected to result in honeybee exposure, test not performed.

ENVIRONMENTAL FATE

Acifluorfen sodium moderately quickly degraded forming mainly bound residue and high polar metabolites depending on soil types. Microbial activities occur during degradation, as well as photolytic degradation on soil surface. Residue accumulation in soil does not occur. In water, acifluorfen sodium is hydrolytically stable in dark but degrade rapidly in light mainly forming CO₂.

SECTION 13 – DISPOSAL CONSIDERATIONS

Disposal: Instructions concerning the disposal of this product and its containers are given on the product label. These should be carefully followed.

SECTION 14 – TRANSPORT INFORMATION

ADG

UN Number: None allocated
Proper shipping name: None allocated
Class: Not dangerous good
Packaging group: None allocated
Hazchem: None allocated

IMO-IMDG

UN Number: None allocated
Proper shipping name: None allocated
Class: Not dangerous good
Packaging group: None allocated
Marine pollutant: No

SECTION 15 – REGULATORY INFORMATION

SUSMP Classification S6
Packaging & Labelling POISON
 KEEP OUT OF REACH OF CHILDREN
 READ SAFETY DIRECTIONS BEFORE OPENING OR US

SECTION 16 – OTHER INFORMATION

This SDS contains only safety-related information. For other data see product literature.

Acronyms:

ADG Code Australian Code for the Transport of Dangerous Goods by Road and Rail
CAS number Chemical Abstracts Service Registry Number
Hazchem Number Emergency action code of numbers and letters that provide information to emergency services especially firefighters
IARC International Agency for Research on Cancer
NOHSC National Occupational Health and Safety Commission
SUSMP Standard for the Uniform Scheduling of Medicines & Poisons
UN Number United Nations Number
GHS Globally Harmonised System

CONTACT POINT:

Police and Fire Brigade: Dial 000
National Poisons Information Centre: Dial **13 11 26 (from anywhere in Australia)**
 For 24 hour emergency response: Dial 0428 776 327
 Ask for Russell Clark