

SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Product Name:	Kenso Agcare Paddo M SC Herbicide
Product Type:	Group C + I Herbicide
Company Name:	Kenso Corporation (M) Sdn Bhd
Address:	Level 1, 98 Commercial Road, Teneriffe QLD 4005
Telephone Number:	(07) 3216 1188
Emergency Telephone Number:	000 (Police or Fire Brigade) 13 11 26 (Poisons Information Centre)
Use:	For the control of seedling broadleaf weeds in wheat, barley, some varieties of oats, pasture and sugar cane as specified in the directions for use

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: Acute toxicity (Oral) – Category 4
Skin corrosion/irritation – Category 2
Serious eye damage/eye irritation – Category 1
Hazardous to the aquatic environment, long term – Chronic 1

GHS Signal Word: **DANGER**

Hazard statements: H302: Harmful if swallowed.
H315: Causes skin irritation.
H318: Causes serious eye damage.
H410: Very toxic to aquatic life with long lasting effects.

Prevention: P264: Wash contacted areas thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P273: Avoid release to the environment.
P280: Wear protective gloves, protective clothing and eye or face protection.

Response: P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P310: Immediately call a POISON CENTER or doctor/physician.
P321: Specific treatment (see FIRST AID on this label).
P330: Rinse mouth.
P332+P313: If skin irritation occurs: Get medical advice/attention.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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: S5

ADG Classification: N/A

UN Number: N/A

Emergency Overview

Physical Description & colour: Opaque yellow liquid.

Odour: Amine odour.

Major Health Hazards: Harmful if swallowed. Attacks eyes. Will irritate the skin. Avoid contact with skin. Repeated exposure may cause allergic disorders.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS number	Proportion
Terbutryn	886-50-5	27.5 %
MCPA as potassium salt	94-74-6	16.0 %
Inert ingredients	secret	To 100 %

SECTION 4 – FIRST AID MEASURES

General Information:

If poisoning occurs, contact a doctor or Poisons Information Centre, Phone Australia 131 126.

Inhalation:	Remove to fresh air until recovered. If symptoms persist, seek medical advice.
Skin contact:	Remove contaminated clothing and launder before use. Wash affected areas or skin thoroughly with soap and water. Seek medical advice if irritation develops.
Eye contact:	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Seek immediate medical attention.
Ingestion:	If product is swallowed or gets in mouth, do NOT induce vomiting; wash mouth with water. Place victim carefully to prevent vomit from entering the lungs. If symptoms develop, or if in doubt contact a Poisons Information Centre or a doctor.

Advice to Doctor:

Treat symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

Fire/Explosion Hazard

Dangerous decomposition or Combustion Products

Thermal decomposition

Product is not readily combustible under normal conditions. Yet, it will break down under fire conditions and organic component may burn. Fire decomposition products from this product are likely to be toxic if inhaled. Take suitable protective measures.

Extinguishing Media

Extinguish fire with foam, dry powder or water spray/fog.

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

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

When handling this product, do not eat, drink or smoke. When preparing the spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and washable hat, elbow-length PVC gloves and goggles. If product in eyes, wash it out immediately with water. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, goggles and contaminated clothing.

Storage

Store in the closed, original container in a cool, well-ventilated locked area away from children, animals, food, feedstuffs, seed and fertilisers. Do not store for prolonged periods in direct sunlight.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

National Exposure Standards:

No exposure standards have been set for this product.

Engineering Controls

Handle in well ventilated areas, generally natural ventilation is adequate.

Personal Protective Equipment

When preparing the spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and washable hat and elbow-length PVC gloves

Eye Protection

Eye protection is essential. Wear a face shield or goggles.

Hygiene Measures

After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, goggles and contaminated clothing.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Colour:	Opaque yellow
Odour:	Amine odour
pH:	8 - 10
Boiling point (°C):	Not available
Vapour Pressure:	0.225 mPa for Terbutryn @ 25°C; MCPA salt is not volatile.
Flashpoint:	Not available
Specific Gravity:	Not available
Solubility:	Dispersible

SECTION 10 – STABILITY AND REACTIVITY

Reactivity

Stable under normal conditions.

Conditions to Avoid

Store in the closed, original container in a cool, well-ventilated locked area away from children, animals, food, feedstuffs, seed and fertilisers. Do not store for prolonged periods in direct sunlight.

Incompatibilities

Strong acids, strong bases and strong oxidizing agents. Reaction of concentrate or spray mix with acids will precipitate solid MCPA and deactivate the product and caused blockage in spray equipments.

Fire Decomposition

Oxides of carbon or nitrogen may be evolved when material is involved in fires.

Polymerisation

This product will not undergo polymerisation reactions.

SECTION 11 – TOXICOLOGICAL INFORMATION

Toxicity data (of technical)

Acute Toxicity – Oral

LD₅₀ (rat): 2045 mg/kg for terbutryn; 962-1470 mg/kg for MCPA.

Acute Toxicity - Dermal

LD₅₀ (rat): >2000 mg/kg for terbutryn; >4000 mg/kg for MCPA.

Acute Toxicity – Inhalation:

LC₅₀ (rats) (4hr): >2200 mg/m³ air for terbutryn; >6.36 mg/L for MCPA.

Skin irritation: NON IRRITANT for terbutryn and MCPA

Eye irritation: NON IRRITANT for terbutryn; IRRITANT for MCPA

Sensitization: NON SENSITISER for terbutryn and MCPA

Potential Health Effects

Health Effects

Product is harmful if swallowed. Attacks eyes. Will irritate the skin. Avoid contact with skin. Repeated exposure may cause allergic disorders.

Acute:

- Inhalation:** Product is low volatility and no adverse effects are expected from handling the concentrate.
- Skin contact:** Product may irritate the skin, prolonged contact with concentrate may result in absorption of MCPA in harmful amounts.
- Eye contact:** Product is severe eye irritant of eyes unless washed off immediately.
- Ingestion:** This product is low toxicity if swallowed. Amounts swallowed to normal handling procedures and use are not expected to cause injury. May cause irritation to mouth, throat and stomach. Ingestion of the concentrates in large amount can result in liver, heart and kidney damage, unconsciousness and death.

Mutagenicity

Data indicates no mutagenic effects for Terbutryn and MCPA.

Carcinogenicity

Not carcinogenic for Terbutryn and MCPA.

Other Information

The Australian ADI for Terbutryn is set at 0.1 mg/kg/day with corresponding NOEL is set at 10 mg/kg/day. ADI for MCPA is set at 0.01 mg/kg/day with corresponding NOEL is set at 1.1 mg/kg/day. *ADI= Acceptable Daily Intake; NOEL: No Observable Effect Level. Data adopted from Australia ADI List, December 2022.

SECTION 12 – ECOLOGICAL INFORMATION

Very toxic to aquatic life with long lasting effects.

Ecotoxicity data (of technical)

Acute Toxicity – Bird

LD₅₀ mallard duck: >4640 mg/kg for terbutryn

LD₅₀ bobwhite quail : 377mg/kg for MCPA

Acute Toxicity – Fish

LC₅₀ rainbow trout (96 hrs): 1.1 mg/L for terbutryn; 50-560 mg/L for MCPA salt solution

Acute Toxicity – Crustaceans

Daphnia LC₅₀ (48 hrs): 2.66 mg/L for terbutryn; >190 mg/L for MCPA

Acute Toxicity – Other organisms

Algae: E_bC₅₀ *Selenastrum capricornutum* (120 hrs): 0.0017mg/L for terbutryn; >392 mg/L for MCPA

Lemna gibba: EC₅₀ (14 days): 0.025mg/L for terbutryn.

Pink shrimps (*Panaeus duorarum*) LC₅₀: 231 mg/L for MCPA

Worms: LC₅₀ *Eisenia foetida* (14 days): 170 mg/kg soil for terbutryn; 325 mg/kg soil for MCPA

Bees: LD₅₀ (contact): >225 µg/bee for terbutryn; >200 µg/bee for MCPA.

ENVIRONMENTAL FATE

For terbutryn, soil microorganisms plays important roles to degradation of terbutryn. Photolysis contributes to degradation. Residual activity in soil is 3 – 10 weeks depending on application rate, soil type and weather.

For MCPA, it degraded in soil to 4-chloro-2-methylphenol, followed by ring hydroxylation and ring opening. DT₅₀ < 7 days after initial lag phase. Residual activity in soil takes 3-4 months following application rate of 3kg/ha.

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: 3082
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains TERBUTRYN)
Class: 9
Packaging group: III
Hazchem: 3Z
Storage and Transport: Considered non dangerous for road and rail transport (in packaging) by the Australian Code for the Transport of Dangerous Goods by Road and Rail. Ref: ADG7; SP No. AU01.

IMO-IMDG

UN Number: 3082
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains TERBUTRYN)

Class: 9
Packaging group: III
Marine pollutant: Yes

SECTION 15 – REGULATORY INFORMATION

SUSMP Classification S5
Packaging & Labelling CAUTION
KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

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