

SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Product Name:	Kenso Agcare Ken-Tac 100 Insecticide
Product Type:	Group 3A Insecticide
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 insect pests including heliothis (<i>Helicoverpa</i> spp.) on various crops and red legged earth mite and blue oat mite on certain field crops and pastures and certain pests on fruit and vegetable crops 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.



GHS Signal Word: **DANGER**

Hazard statements:

H227: Combustible liquid.
H302: Harmful if swallowed
H304: May be fatal if swallowed and enters airways.
H351: Suspected of causing cancer.
H373: May cause damage to organs through prolonged or repeated exposure.

Prevention:

H410: Very toxic to aquatic life with long lasting effects.
P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260: Do not breathe dust/fume/gas/mist/vapours/spray.
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/eye protection/ face protection.

Response:

P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician.

P308 + P313: IF exposed or concerned: Get medical advice/attention.
 P314: Get medical advice/attention if you feel unwell.
 P330: Rinse mouth.
 P331: Do NOT induce vomiting.
 P370 + P378: In case of fire: Use carbon dioxide, dry chemical, foam and water fog to extinguish.
 P391: Collect spillage.
 P403: Store in a well-ventilated place.
 P501: Dispose of contents/ container as specified on the registered label.

Storage:
Disposal:
SUSMP Classification:
ADG Classification:
UN Number:

S6
 N/A
 N/A

Emergency Overview

Physical Description & colour: Clear pale brown liquid.

Odour: Characteristic hydrocarbon odour.

Major Health Hazards: The onset of symptoms varies depending upon such factors. In patients with occupational poisoning, skin symptoms usually develop within 4-6 hours after exposure, with systemic symptoms occurring as late as 48 hours after exposure. Paraesthesia of the facial skin can develop approximately 30 minutes after exposure and does not usually last beyond 24 hours when exposure is terminated. Following ingestion, the initial symptoms involve the gastrointestinal tract, developing 10-60 minutes after exposure. Patients suffering from acute oral poisoning usually develop prominent digestive symptoms such as epigastric pain, nausea and vomiting. Severely poisoned patients may have frequent convulsive attacks, coma, or pulmonary oedema. The prognosis is good if treated, with usually full recovery even in severely poisoned patients. (The hospitalisation period is usually longer than 4 weeks).

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS number	Proportion
Alpha-cypermethrin	67375-30-8	10%
Inert ingredients	secret	<15%
Liquid hydrocarbon	64742-94-5	to 100%

SECTION 4 – FIRST AID MEASURES

Inhalation	Remove victim from exposure – avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.
Skin contact	Wash contaminated skin with plenty of water. Remove contaminated clothing and wash before re-use. If irritation occurs seek medical advice.

Eye contact	Irrigate with copious quantities of water for at least 15 minutes. In all cases of eye contamination it is sensible precaution to seek medical advice.
Ingestion	If poisoning occurs, contact a doctor or Poisons Information Centre (Tel 131126)

Advice to Doctor

Contains a synthetic pyrethroid insecticide. Treatment is symptomatic.

NB: This product also contains liquid hydrocarbon. Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause bronchopneumonia or pulmonary oedema.

SECTION 5 – FIRE FIGHTING MEASURES

Specific Hazard

Product is a combustible liquid, (C1)

Fire/Explosion Hazards

Dangerous decomposition or Combustion Products

Thermal decomposition

Material may support combustion at elevated temperatures. Sealed, overheated containers may present explosion hazard. Thermal decomposition and burning may produce toxic-by-products.

Extinguishing Media

Water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder)

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spills & Disposal

Clean up immediately. Wear protective equipment to prevent skin and eye contamination. Contain using sand or soil – prevent run off into drains and waterways. Use adsorbent (soil, sand or other inert material). Collect and seal in properly labelled containers for disposal.

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.

SECTION 7 – HANDLING AND STORAGE

Handling

When handling this product, do not eat, drink or smoke.

When mixing this product always wear a PVC or rubber apron, elbow length PVC gloves, face shield or goggles and overalls buttoned at the wrist and neck.

When spraying this product, wear a face shield or goggles

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

If product gets on skin, immediately wash area with soap and water.

Storage

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

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Standards:

No value assigned for this specific material by National Occupational health and Safety Commission (Worksafe Australia)

Engineering Controls:

Natural ventilation should be adequate under normal use conditions. Keep containers closed when not in use.

Personal Protection

Harmful if swallowed. Will irritate the eyes and skin. Facial skin contact may cause temporary facial numbness. Avoid contact with eyes and skin. Avoid inhaling vapour or spray mist. When preparing spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and a face-shield or 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, face shield or goggles and contaminated clothing.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Colour:	Clear straw liquid
Odour:	Aromatic odour
Boiling point (°C):	Not applicable
Vapour Pressure:	Not applicable
Specific Density:	0.93 ± 0.01
Flashpoint:	62 °C
Flammability:	Combustible Liquid, (C1)
Solubility:	Emulsify

SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability:	Do not store below 4°C. The product crystallises at low temperatures.
Hazardous Reactions:	Keep away from strong oxidising agents.
Hazardous Polymerization:	Hazardous polymerisation is not possible.

SECTION 11 – TOXICOLOGICAL INFORMATION

Toxicity data (On Alpha-Cypermethrin technical)

Acute Toxicity – Oral

LD₅₀ (rat) 79 - 474 mg/kg

Acute Toxicity – Dermal

LD₅₀ (rat) >2000 mg/kg

LD₅₀ (rabbit) >2000 mg/kg

Acute Toxicity – Inhalation

LC₅₀ (rat) (4hr) >0.32 mg/l

Potential Health Effects

Health Effects

Acute:

- Inhalation:** Maybe harmful. Inhalation of aromatic hydrocarbon vapours may cause dizziness, disturbances of vision, and irritation to the eyes, skin and mucous membranes of the respiratory and gastrointestinal tract.
- Skin contact:** Maybe harmful. Repeated or prolonged exposure may cause irritant contact dermatitis. If substantial contact occurs, it could cause facial numbness.
- Eye contact:** May cause irritation.
- Ingestion:** Harmful.

Chronic:

Animal studies have been undertaken on the active ingredient, alpha-cypermethrin. These studies show that the active can act on the nervous system and produce excitatory effects predominately on the sensory nerve endings. The technical does not cause teratogenicity or reproductive toxicity nor is it a carcinogen.

Chronic Effects

Repeated exposure could result in peripheral nervous system damage.

Other Information

The ADI for alpha-cypermethrin for a human is 0.05 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOAEL of 4.7 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. *ADI= Acceptable Daily Intake; NOAEL: No Observable Adverse Effect Level. Data adopted from Australia ADI List, March 2021.

SECTION 12 – ECOLOGICAL INFORMATION

Persistence / Degradability

Average field half life of alpha-cypermethrin is 90 days.

Known Harmful Effects on the Environment

Alpha-cypermethrin products do not appear to pose any threat to birds. The product is a marine pollutant for sea transport. Alpha-cypermethrin is toxic to fish.

Acute Toxicity – Fish

The following is data for the active ingredient, alpha-cypermethrin.

Toxic to fish. LC₅₀ (96hr) for rainbow trout is 0.0028 mg/l.

Acute Toxicity – Daphnia

LC₅₀ (48 hr) for alpha-cypermethrin is 0.0003 mg/l.

Acute Toxicity – Other Organisms

Birds: Not toxic to birds. LD₅₀ for mallard duck is >10,000 mg/kg

Bees: Toxic to bees. LD₅₀ 0.059 µg/bee.

Should not be applied while bees are actively foraging.

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

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.
UN Number (Sea Transport):	3082
IMO Class/Packing Group:	Class 9; Packing Group III
IMO Marine Pollutant:	Marine Pollutant
IMO Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains Alpha-cypermethrin)
Hazchem code:	None allocated

SECTION 15 – REGULATORY INFORMATION

SUSMP Classification	S6
Packaging & Labelling	POISON 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	0439 933 556 Ask for Murray Goodlich