

SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

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| Product Name: | Kenso Agcare Taekwando 250 CS Herbicide |
| Product Type: | Group 3A Insecticide |
| 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 control of certain insect pests in Cotton, Barley, Wheat and various field crops as per the Directions for Use. |

SECTION 2 – HAZARDS IDENTIFICATION

Hazard Classification: Classified as hazardous according to criteria of Safe Work Australia.
Classified as a Dangerous Good according to the ADG Code.



Classification of the Hazardous Chemical: Acute toxicity (Oral) – Category 3
Aspiration hazard – Category 1
Skin sensitization – Category 1, 1A, 1B
Acute toxicity (Inhalation) – Category 4
Hazardous to the aquatic environment, short term – Acute 1
Hazardous to the aquatic environment, long term – Chronic 1

GHS Signal Word: **DANGER**

Hazard statements: AUH066 - Repeated exposure may cause skin dryness or cracking.
H301: Toxic if swallowed.
H304: May be fatal if swallowed and enters airways.
H317: May cause an allergic skin reaction.
H332: Harmful if inhaled.

Prevention: H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.
P261: Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264: Wash contacted areas 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.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

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| Response: | P301+P310: IF SWALLOWED: Immediately call a POISON CENTRE or doctor/ physician. P302+P352: IF ON SKIN: Wash with plenty of soap and water. 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. P321: Specific treatment (see FIRST AID) on label. P330: Rinse mouth. P331: DO NOT induce vomiting. P333+P313: If skin irritation or rash occurs: Get medical advice/ attention. P363: Wash contaminated clothing before reuse. P391: Collect spillage. |
| Storage: | P405: Store locked up. |
| Disposal: | P501: Dispose of contents and containers as specified on the registered label. |
| SUSMP Classification: | S6 |
| ADG Classification: | Class 6.1: Toxic substances. |
| UN Number: | 3352, PYRETHROID PESTICIDE, LIQUID, TOXIC (contains Lambda-cyhalothrin) |

Emergency Overview

Physical Description & colour: off-white to beige liquid.

Odour: Faint hydrocarbon

Major Health Hazards: Harmful if inhaled or swallowed. Will irritate the eyes and skin. Repeated exposure may cause allergic disorders. Facial skin contact may cause temporary facial numbness.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredients | CAS number | Proportion |
|----------------------|------------|------------|
| Lambda-cyhalothrin | 91465-08-6 | 25% |
| Aromatic hydrocarbon | 64742-94-5 | 15 – 20% |
| Inert ingredients | secret | to 100% |

SECTION 4 – FIRST AID MEASURES

General Information:

If poisoning occurs, contact a doctor or Poisons Information Centre. Telephone Australia 13 11 26.

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| 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. |

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| Ingestion: | If product is swallowed or gets in mouth, do NOT induce vomiting; wash mouth with water and give some water to drink. If symptoms develop, or if in doubt contact a Poisons Information Centre or a doctor. |
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Advice to Doctor:

Treat symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

Fire/Explosion Hazards

If involved in fires, it emits oxides of carbon, oxides of nitrogen and minor quantities of hydrogen chloride and hydrogen fluoride. There is no risk from this product under normal circumstances if it is involved in a fire.

Thermal Decomposition

Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.

Extinguishing Media

Use water fog, foam, dry agent (carbon dioxide, dry chemical powder). Ensure that no spillage enters drains or water courses.

Fire Fighting

If a significant quantity of this product is involved in a fire, call the fire brigade. Fire-fighter should wear appropriate protective equipment with self-contained breathing apparatus.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spills & 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.

Personal Protection

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

Clean-up Methods – Large Spillages

Place damaged containers in recovery bins (if available) and return to manufacturer. If large liquid spills occur, attempt to recover as much spilt material from sumps and bunded areas absorbing remaining material into vermiculite or other absorbent.

SECTION 7 – HANDLING AND STORAGE

Handling

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

When opening the container, preparing the spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist, washable hat, elbow-length PVC gloves and face shield.

If product on skin, immediately wash area with soap and water. Wash hands after use. After each day's use, wash gloves, face-shield and contaminated clothing.

Storage

Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. Store in a locked room or place away from children, animals, food, feedstuffs, seed and fertilizers.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Standards:

None establish for formulated product.

Engineering Controls

Natural ventilation should be adequate under normal use conditions. If natural ventilation is inadequate, use of a fan is recommended. Keep containers closed when not in use.

Personal Protection

Product is harmful if inhaled or swallowed. Will irritate the eyes and skin. Repeated exposure may cause allergic disorders. Facial skin contact may cause temporary facial numbness. Avoid contact with eyes and skin. When opening the container, preparing the spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist, washable hat, elbow-length PVC gloves and face shield. If product on skin, immediately wash area with soap and water. Wash hands after use. After each day's use, wash gloves, face-shield and contaminated clothing.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

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|----------------------------|-------------------------------|
| Form: | Liquid |
| Colour: | Off-white to beige |
| Odour: | Characteristic odour |
| pH: | 4.0 – 7.0 |
| Boiling Point (°C): | Not available |
| Flashpoint: | Non flammable |
| Vapour Pressure: | Not available |
| Specific gravity: | 1.06 ± 0.05 g/cm ³ |
| Water Solubility: | Dispersible |

SECTION 10 – STABILITY AND REACTIVITY

Reactivity

This product is unlikely to react or decompose under normal storage conditions.

Conditions to Avoid

Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. Store in a locked room or place away from children, animals, food, feedstuffs, seed and fertilizers.

Incompatibilities

Strong acid, strong bases and strong oxidising agent.

Fire Decomposition

Combustion forms oxides of carbon

Polymerisation

This product will not undergo polymerisation reactions. If involved in fires, it emits oxides of carbon, oxides of nitrogen and minor quantities of hydrogen chloride and hydrogen chloride. There is no risk from this product under normal circumstances if it is involved in a fire.

SECTION 11 – TOXICOLOGICAL INFORMATION

Toxicity data

Acute Toxicity – Oral

LD₅₀ (female rat): 180 mg/kg

Acute Toxicity - Dermal

LD₅₀ (rat) = > 2000mg/kg

Acute Toxicity – Inhalation:

LC₅₀ (rats) (4hr): 3.12 mg/l

Skin irritation: NON IRRITANT

Eye irritation: NON IRRITANT

Sensitization: SENSITISER

Potential Health Effects

Health Effects

Product is harmful if inhaled or swallowed. Will irritate the eyes and skin. Repeated exposure may cause allergic disorders. Facial skin contact may cause temporary facial numbness. Avoid contact with eyes and skin.

Acute:

- | | |
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| Inhalation: | Product may be fatal if inhaled. May cause irritation to respiratory tract. |
| Skin contact: | Product may irritate the skin. Exposure to product can result in tingling sensation especially on face. Effect is transient and tingling generally disappears in one to two days. To reduce the discomfort, Vitamin E cream can be applied topically. |
| Eye contact: | Product may cause eye irritation. Symptom disappear when exposure stopped and first aid measure taken. |
| Ingestion: | Product is toxic if swallowed. Possible symptoms exposure to the concentrate includes nausea, vomiting and abdominal pains. |

Reproductive Toxicity

Data indicates no reproductive toxicity effects.

Mutagenicity

Data indicates no mutagenic effects.

Carcinogenicity

Lambda-cyhalothrin technical is not carcinogenic.

Other Information

The Acceptable Daily Intake (ADI) for lambda-cyhalothrin is set at 0.001 mg/kg/day. Corresponding No Observable Effect Level (NOEL) is set at 0.1 mg/kg/day.

*Values taken from Australia ADI List, December 2022.

SECTION 12 – ECOLOGICAL INFORMATION

Very toxic to aquatic life with long lasting effects. Toxic to bees. DO NOT spray when bees are actively foraging. Risk is reduced by spraying in the early morning or late evening.

Ecotoxicity data (of technical)

Acute Toxicity – Bird

LD₅₀ mallard duck: >3950 mg/kg

Acute Toxicity – Fish

LC₅₀ bluegill sunfish (96 hrs): 0.21 µg/L

Acute Toxicity – Crustaceans

(Intrinsic toxicity to aquatic organism is greatly reduced by rapid loss from the water by adsorption and degradation)

Daphnia EC₅₀ (72 hrs): 0.26 µg/L

Acute Toxicity – Other organisms

Algae: EC₅₀ *Selenastrum capricornutum* (96 hrs): >1000 µg/L

Bees: LD₅₀ (contact): 38 ng/bee

ENVIRONMENTAL FATE

Lambda-cyhalothrin is not readily biodegradable, not persistent in water with half-life degradation of 7 days. It is not persistent in soil, yet immobile in soil. Lambda-cyhalothrin possesses bioaccumulative potential.

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

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| UN Number: | UN3352 |
| Proper shipping name: | PYRETHROID PESTICIDE, LIQUID, TOXIC (contains LAMBDA-CYHALOTHRIN) |
| Class: | 6.1 |
| Packaging group: | III |
| Hazchem: | 2X |

IMO-IMDG

| | |
|------------------------------|---|
| UN Number: | UN3352 |
| Proper shipping name: | PYRETHROID PESTICIDE, LIQUID, TOXIC (contains LAMBDA-CYHALOTHRIN) |

Class: 6.1
Packaging group: III
Marine pollutant: Yes

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 0428 776 327
Ask for Russell Clark