

SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Product Name:	Kenso Agcare Squatter 400 EC Herbicide
Product Type:	Group 14 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 improvement in the control of marshmallow and certain other broadleaf weeds prior to establishment of broadacre crops, fallows or forest plantations, in commercial, industrial and public service areas, and around agricultural buildings and yards, in treefruits, nuts, grapevines in tank mixture with knockdown herbicides; for the control of marshmallow and annual nettles in grass pastures and rough grass/turf areas; and control of volunteer cotton seedlings including Roundup Ready* cotton and desiccation of cotton re-growth as per 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: Flammable liquid – Category 4
Aspiration hazard – Category 1
Carcinogenicity – Category 2
Hazardous to the aquatic environment, short term – Acute 2

GHS Signal Word: **DANGER**

Hazard statements: AUH066 - Repeated exposure may cause skin dryness or cracking.
H227: Combustible liquid.
H304: May be fatal if swallowed and enters airways.
H351: Suspected of causing cancer.
H401: Toxic to aquatic life.

Prevention: 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.

Response:	P273: Avoid release to the environment.
	P280: Wear protective gloves/protective clothing/eye protection/ face protection.
	P301+P310: IF SWALLOWED: Immediately call a POISON CENTRE/ doctor/physician.
	P308+P313: IF exposed or concerned: Get medical advice/attention.
	P331: Do NOT induce vomiting.
Storage:	P370 + P378: In case of fire: Use water fog, foam, dry agent (carbon dioxide, dry chemical powder) to extinguish.
	P403: Store in a well-ventilated place.
	P405: Store locked up.
Disposal:	P501: Dispose of contents and containers as specified on the registered label.
SUSMP Classification:	S5
ADG Classification:	N/A
UN Number:	N/A

Emergency Overview

Physical Description & colour: Dark brown liquid.

Odour: Solvent odour

Major Health Hazards: Limited evidence for carcinogen. If aspirated, may cause lung damage. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness or dizziness.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS number	Proportion
Carfentrazone-ethyl	128639-02-1	40%
Inert ingredients	secret	<15%
Aromatic hydrocarbon	64742-94-5	to 100%

SECTION 4 – FIRST AID MEASURES

Inhalation:	If inhalation has occurred, remove from contaminated area to fresh air.
Skin contact:	If on skin, remove contaminated clothing, wash skin thoroughly with soap and water.
Eye contact:	If in eyes, hold eyelid(s) open and flush with water for at least 15 minutes. Take special care if exposed person is wearing contact lenses. Immediately call a POISON CENTRE or doctor/ physician.
Ingestion:	If swallowed, wash mouth with plenty of water. Call a POISON CENTRE (Telephone 13 11 26) or doctor/ physician if you feel unwell.

Advice to Doctor:

Treat symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

Specific Hazard

Product is a combustible liquid, C1.

Fire/Explosion Hazards

The major hazard in fires is usually inhalation of heated and toxic or oxygen deficient (or both), fire gases. 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

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear approved respiratory protection, chemical resistant gloves, protective clothing and safety boots. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation. Extinguish all sources of ignition. Avoid sparks and open flames. No smoking.

Environmental Precautions:

Retain and dispose of contaminated wash water. Do not allow to get into surface water, drains and ground water. If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and Materials for Containment and Cleaning Up:

Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material. If absorbent material is not available create a dyke to contain the spill. Collect the spilled material and place into a suitable container for disposal. Wash spill area, preventing runoff from entering drains.

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:

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

Products will irritate the eyes and skin. Avoid contact with eyes and skin. If product on skin, immediately wash area with soap and water. If product in eyes, wash it out immediately with water. Wash hands after use. When opening the container and preparing spray, wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and face shield or goggles. When using the prepared spray, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and elbow-length PVC gloves. After each day's use, wash gloves, face shield or goggles and contaminated clothing.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Colour:	Dark brown
Odour:	Solvent odour
Boiling Point (°C):	Not applicable
Vapour Pressure:	Not applicable
Specific gravity:	1.07 @ 25°C
Flashpoint:	> 62°C
Flammability:	Combustible Liquid, C1
Solubility:	Emulsify in water

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 dry, cool, well-ventilated area out of direct sunlight.

Incompatibilities

Strong acid, strong bases and strong oxidising agent.

Fire Decomposition

Combustion forms carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Nitrogen and its compounds, and under some circumstances, oxides of nitrogen may be formed. Occasionally, hydrogen cyanide gas in reducing atmospheres. Hydrogen chloride gas, other compounds of chlorine. Carbon monoxide poisoning produces headache, weakness, nausea,

dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.

Polymerisation

This product will not undergo polymerisation reactions.

SECTION 11 – TOXICOLOGICAL INFORMATION

Toxicity data (on carfentrazone-ethyl)

Acute Toxicity – Oral

LD₅₀ (rat): > 3000 mg/kg

Acute Toxicity - Dermal

LD₅₀ (rat) = > 4000mg/kg

Acute Toxicity – Inhalation:

LC₅₀ (rats) (4hr): 10.4 mg/l

Potential Health Effects

Acute:

Inhalation: Product is harmful and symptoms may include drowsiness and dizziness.

Skin contact: May be irritating but unlikely to cause anything more than mild transient discomfort.

Eye contact: May be irritating to eyes but unlikely to cause anything more than mild transient discomfort.

Ingestion: Low oral toxicity.

Chronic Effects:

Possible chronic health effects from exposure to Squatter 400 EC Herbicide are based on the active ingredient. Animal studies on chronic exposure have been undertaken on active ingredients, carfentrazone-ethyl. The study found the compound to be non-carcinogenic to rats under the conditions of the study. The NOEL was 200 ppm (9 mg/kg/day) for males and 50 ppm (3 mg/kg/day) for females respectively and the LOEL was 800 ppm (37 mg/kg/day) for males and 200 ppm (12 mg/kg/day) for females, based on liver histopathology and total urinary porphyrin. There was no evidence of carcinogenicity in this study. (Source: HSDB, 23 Jul 15).

Other Information

The Australian Acceptable Daily Intake (ADI) for carfentrazone-ethyl for a human is 0.03 mg/kg/bw/day, set for the public for daily, lifetime exposure. This is based on the NOAEL of 3 mg/kg/bw/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, September 2024.

SECTION 12 – ECOLOGICAL INFORMATION

Toxic to aquatic organisms.

Acute Toxicity – Bird

LD₅₀ bobwhite quail: > 1000 mg/kg

Acute Toxicity – Fish

LC₅₀: 1.6 -43 mg/L (depends on species)

Acute Toxicity – Crustaceans

LC₅₀ Daphnia: 9.8 mg/L

Acute Toxicity – Other organisms

Eastern oysters: EC₅₀(96h): 2.05 mg/L

Earthworms: LC₅₀ (14days): 820 mg/kg

Bees: LD₅₀(oral): >35 µg/bee

ENVIRONMENTAL FATE

In soil, carfentrazone-ethyl broke down through microbial action. It will not accumulate in soil or water or cause long term problems. Carfentrazone-ethyl rapidly degraded in soil under aerobic and anaerobic conditions. Half-life in soil is 1–2 days. It is stable at pH 5 but rapidly hydrolysed at pH 9.

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 SUBSTANCES, LIQUID, N.O.S. (contains CARFENTRAZONE-ETHYL)
Class:	9
Packaging group:	III
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 SUBSTANCES, LIQUID, N.O.S. (contains CARFENTRAZONE-ETHYL)
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	1800 951 288 03 9573 3188