

## SAFETY DATA SHEET

### SECTION 1 – IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

**Product Name:** Kenso Agcare Metoken Gold Herbicide  
**Product Type:** Group K 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 certain annual grasses and broadleaf weeds in certain crops.

### 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 liquids – Category 4  
 Skin sensitization – Category 1  
 Hazardous to the aquatic environment, long term – Chronic 1

**GHS Signal Word:** **WARNING**

**Hazard statements:** H227: Combustible liquid.  
 H317: May cause an allergic skin reaction.  
 H410: Very toxic to aquatic life with long lasting effects.  
**Prevention:** P210: Keep away from heat/sparks/open flames/hot surfaces and other ignition sources. No smoking.  
 P261: Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P272: Contaminated work clothing should not be allowed out of the workplace.  
 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.  
 P321: Specific treatment (see FIRST AID on this label).  
 P333+P313: If skin irritation or rash occurs: Get medical advice/attention.  
 P362+P364: Take off contaminated clothing and wash it before reuse.  
 P370+P378: In case of fire: Use water fog, foam, dry agent (carbon dioxide, dry chemical powder) to extinguish.  
 P391: Collect spillage.

**Storage:** P403: Store in a well-ventilated place.  
**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:** Yellowish to brown clear liquid.

**Odour:** Not characteristic

**Major Health Hazards:** Signs of human intoxication from S-Metolachlor exposure include abdominal cramps, anemia, shortness of breath, dark urine, convulsions, diarrhea, jaundice, weakness, nausea, sweating, and dizziness. Possible skin sensitiser.

### SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS number	Proportion
S-Metolachlor	87392-12-9	96%
Inert ingredients	secret	<4%
Liquid hydrocarbon	64742-94-5	to 100%

### SECTION 4 – FIRST AID MEASURES

<b>Inhalation:</b>	Remove to fresh air, keep warm and at rest until recovered.
<b>Skin contact:</b>	Remove contaminated clothing and launder before use. Wash affected areas or skin thoroughly with soap and water. Seek medical advice if irritation develops.
<b>Eye contact:</b>	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open.
<b>Ingestion:</b>	If swallowed, do NOT induce vomiting; Wash mouth with water. Seek medical advice immediately and show this container or label or contact the Poisons Information Centre on 13 11 26 (Australia).

#### Advice to Doctor:

Treat symptomatically.

### SECTION 5 – FIRE FIGHTING MEASURES

#### Fire/Explosion Hazard

Product is a combustible liquid, (C1)

#### Dangerous decomposition or Combustion Products

Thermal decomposition will evolve toxic and irritant vapours. Exposure to decomposition products may be a hazard to health.

#### Extinguishing Media

Extinguish fire with water fog, foam, dry agent (carbon dioxide, dry chemical powder)

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

### Spills and Disposal

Ensure suitable personal protection (including respiratory protection) during removal of spillage. Contain spill and absorb with sand or other absorbent material. Do not allow to enter drains, sewers and watercourses. Collect in sealed open top container 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

None established for formulated product

<b>Ingredient</b>	<b>TLV ppm</b>
Solvent	100

### Engineering Controls

Well ventilated area.

### Personal Protection

Avoid contact with eyes and skin. Do not inhale spray mist. When preparing spray solution, wear PVC/rubber apron or cotton overalls buttoned to the neck and wrist, elbow-length PVC gloves and goggles or face-shield. After use and before eating, drinking and smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, face and contaminated clothing.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

**Form:**

Liquid

**Colour:**

Yellowish to brown clear

**Odour:**

Not characteristic

**Boiling point (°C):**

Not available

Vapour Pressure:	Not available
Flashpoint:	74°C
Flammability:	Combustible Liquid, (C1)
Specific Gravity:	1.1 ± 0.01
Solubility	Emulsify in water

## SECTION 10 – STABILITY AND REACTIVITY

### Chemical Stability

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

### Hazardous Polymerization

Hazardous polymerisation is not possible.

### Incompatible Materials

None known

### Hazardous Reaction

Hazardous polymerization does not occur.

## SECTION 11 – TOXICOLOGICAL INFORMATION

### Toxicity Data:

#### Acute Toxicity – Oral

LD<sub>50</sub> for rat: 2600 mg/kg

#### Acute Toxicity – Dermal

LD<sub>50</sub> for rabbits: >2000 mg/kg.

#### Acute Toxicity – Inhalation

LC<sub>50</sub> (4h) for rats: > 2910 mg/m<sup>3</sup>

### Skin and eyes irritation

Non-irritant to skin and eyes (rabbits)

## Potential Health Effects

### Health Effects

#### Acute:

Inhalation: Low toxicity.

Skin contact: Non-irritant

Eye contact: Non-irritant

Ingestion: Practically non-toxic.

#### Chronic:

Chronic toxicity and/or oncogenicity studies were conducted on S-metolachlor in rats, mice and dogs. S-Metolachlor technical has been extensively tested on laboratory mammals and in test tube systems. No evidence of mutagenic, teratogenic or reproductive effect was obtained.

In two separate studies in mice, S-metolachlor technical did not induce tumors or other long-term toxic effects. No adverse effects were observed in two long-term studies in rats, except at very high

doses, where a small number of females developed benign liver tumors. The observed oncogenic response reflects the metabolic overloading of the liver at the highest dose level administered which resulted in cytotoxicity.

## SECTION 12 – ECOLOGICAL INFORMATION

### Acute Toxicity – Fish

The following is data for the active ingredient, s-metolachlor.  
Not toxic to fish. LC<sub>50</sub> (96 hr) for rainbow trout is 1.23 mg/l.

### Acute Toxicity – Daphnia

LC<sub>50</sub> (48hr) for daphnia is 11.24-26.00 mg/l.

### Acute Toxicity – Algae

EC<sub>50</sub> (120hr) for *Skeletonema costatum* is 0.11 mg/l.

### Acute Toxicity – Other Organisms

Birds: Not toxic to birds. Acute oral LD<sub>50</sub> for mallard duck and bobwhite quail is >2510 mg/kg

## 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 S-METOLACHLOR)
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 SUBSTANCE, LIQUID, N.O.S. (Contains S-METOLACHLOR)
Class:	9
Packaging group:	III
Marine pollutant:	Yes

## SECTION 15 – REGULATORY INFORMATION

<b>SUSMP Classification</b>	S5
<b>Packaging &amp; Labelling</b>	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:**

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

**CONTACT POINT:**

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