

## SAFETY DATA SHEET

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

<b>Product Name:</b>	<b>Kenso Agcare Thidiazuron 500 SC Cotton Defoliant</b>
<b>Product Type:</b>	Cotton Defoliant
<b>Company Name:</b>	Kenso Corporation (M) Sdn Bhd
<b>Address:</b>	Level 1, 98 Commercial Road, Teneriffe, 4005 QLD.
<b>Telephone Number:</b>	(07) 3216 1188
<b>Emergency Telephone Number:</b>	000 (Police or Fire Brigade) <b>13 11 26 (Poisons Information Centre)</b>
<b>Use:</b>	For the defoliation of cotton prior to harvest.

### SECTION 2 – HAZARDS IDENTIFICATION

<b>Hazard Classification:</b>	Not classified as hazardous according to criteria of Safe Work Australia. Not classified as a Dangerous Good according to the ADG Code.
<b>Classification of the Hazardous Chemical:</b>	Hazardous to aquatic environment, long-term – Chronic 3
<b>GHS Signal Word:</b>	<b>NONE.</b>
<b>Hazard statement:</b>	H412: Harmful to aquatic life with long lasting effects.
<b>Prevention:</b>	P273: Avoid release to the environment.
<b>Disposal:</b>	P501: Dispose of contents and containers as specified on the registered label.
<b>SUSMP Classification:</b>	None allocated.
<b>ADG Classification:</b>	Not a dangerous good.
<b>UN Number:</b>	None allocated.

### Emergency Overview

**Physical Description & colour:** Beige coloured liquid.  
**Odour:** No odour.  
**Major Health Hazards:** No major health hazards are known.

### SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS number	Proportion
Thidiazuron	51707-55-2	50%
Inert ingredients	secret	to 100%

### SECTION 4 – FIRST AID MEASURES

<b>Inhalation:</b>	First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor
<b>Skin contact:</b>	Irritation is unlikely. However, if irritation does occur, flush with lukewarm, gently flowing water for 5 minutes or until chemical is removed. If in doubt obtain medical advice.
<b>Eye contact:</b>	No effects expected. If irritation does occur, flush contaminated eye(s) with lukewarm, gently flowing water for 5 minutes or until the product is removed. Obtain medical advice if irritation becomes painful or lasts more than a few minutes.
<b>Ingestion:</b>	First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor

**Advice to Doctor:**

Treat symptomatically.

**SECTION 5 – FIRE FIGHTING MEASURES**

**Fire/Explosion Hazards:**

**Dangerous Decomposition or Combustion products**

**Thermal Decomposition**

There is no risk of an explosion from this product under normal circumstances if it is involved in a fire. This product is likely to decompose only after heating to dryness, followed by further strong heating. Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.

**Extinguishing Media:**

Not Combustible. Use extinguishing media suited to burning materials.

**Fire Fighting:**

When fighting fires involving significant quantities of this product, wear a splash suit complete with self contained breathing apparatus.

**SECTION 6 – ACCIDENTAL RELEASE MEASURES**

**Spills and Disposal**

Contain spill and pick up solids preferably using a vacuum cleaner. Collect spilled material and waste in sealable open-top type containers for disposal. Prevent spillage from entering drains, streams or watercourses. If contamination is unavoidable contact the local water authority. Single rinse the container before disposal. Add rinsate to the spray tanks. Do not dispose of undiluted chemicals on site. Puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt

**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 Limits

Exposure limits have not been established by ASCC for any of the significant ingredients in this product.

### Engineering Control

No specific engineering controls. If dusts are generated, use local ventilation to control dust.

### Personal Protective Measures

The concentrate may irritate the eyes and may irritate the skin. Avoid contact with eyes and skin. When preparing product for use wear elbow length PVC gloves and face shield or goggles. 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.

### 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 contaminated clothing and safety equipment.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

<b>Form:</b>	Liquid
<b>Colour:</b>	Beige coloured
<b>Odour:</b>	No odour
<b>Boiling point (°C):</b>	Approximately 100°C at 100kPa
<b>Melting point (°C):</b>	No specific data. Liquid at normal temperatures
<b>Vapour Pressure:</b>	2.37 kPa at 20°C (water vapour pressure)
<b>Specific Density:</b>	1.15 ± 0.01
<b>Flashpoint:</b>	Not flammable.
<b>Autoignition Temperature:</b>	Does not burn.
<b>Solubility in Water:</b>	Dispersible.

## SECTION 10 – STABILITY AND REACTIVITY

### Reactivity

This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.

### Conditions to Avoid

This product should be kept in a cool place, preferably below 30°C.

### Incompatibilities

Strong acids, strong bases, strong oxidising agents.

### Fire Decomposition

This product is likely to decompose only after heating to dryness, followed by further strong heating. Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas. Oxides of sulfur (sulfur dioxide is a respiratory hazard) and other sulfur compounds. Most will have a foul odour. Water. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death. Hydrogen cyanide poisoning signs and symptoms are weakness, dizziness, headache, nausea, vomiting, coma, convulsions, and death. Death results from respiratory arrest. Hydrogen cyanide gas acts very rapidly; symptoms and death can both occur quickly.

### Polymerisation

This product is unlikely to undergo polymerisation processes.

## SECTION 11 – TOXICOLOGICAL INFORMATION

### Toxicity Data (On Thidiazuron technical)

Acute oral LD<sub>50</sub> for rats: > 4000 mg/kg

Acute oral LD<sub>50</sub> for mice: > 5000 mg/kg

Acute dermal LD<sub>50</sub> for rats: > 1000 mg/kg

Acute dermal LD<sub>50</sub> for rabbits: > 4000 mg/kg

Acute inhalation LC<sub>50</sub> (4hr) for rats: 2.3 mg/L

## Potential Health Effects

### Health Effects

#### Acute:

- Ingestion:** This product is unlikely to cause any irritation problems in the short or long term. No data for health effects associated with long term ingestion.
- Eye contact:** Available data shows that this product is not harmful. However product may be irritating to eyes, but is unlikely to cause anything more than mild transient discomfort. No data for health effects associated with long term eye exposure.
- Skin contact:** Available data indicates that this product is not harmful. It should present no hazards in normal use. However product may be mildly irritating, but is unlikely to cause anything more than mild transient discomfort. No data for health effects associated with long term skin exposure.
- Inhalation:** Available data indicates that this product is not harmful. In addition product is unlikely to cause any discomfort or irritation. No data for health effects associated with long term inhalation.

**Carcinogen Status:**

ASCC: No significant ingredient is classified as carcinogenic by ASCC

NTP: No significant ingredient is classified as carcinogenic by NTP.

IARC: No significant ingredient is classified as carcinogenic by IARC.

**Other information**

The ADI for thidiazuron is set at 0.02 mg/kg/day with corresponding NOEL is set at 2.5 mg/kg/day.

\*ADI= Acceptable Daily Intake; NOEL: No Observable Effect Level. Data adopted from Australia ADI List, June 2023.

**SECTION 12 – ECOLOGICAL INFORMATION**

**Acute Toxicity – Birds**

LD<sub>50</sub> for (mallard duck) is 5000 mg/kg

LD<sub>50</sub> for Japanese quail is 3160 mg/kg

LD<sub>50</sub> for Bobwhite quail is 5000 mg/kg

**Acute Toxicity - Fish**

LC<sub>50</sub> for Cat fish is 1000 mg/L

LC<sub>50</sub> for rainbow trout is 1000 mg/L

LC<sub>50</sub> for bluegill sunfish is 1000 mg/L

**Acute Toxicity – Other Organisms**

EC<sub>50</sub> for worms 1400 mg/kg

EC<sub>50</sub> for daphnia 10 mg/L

**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:** None allocated

**Proper shipping name:** None allocated

**Class:** None allocated

**Packaging group:** None allocated

**Hazchem:** None allocated

**IMO-IMDG**

**UN Number:** None allocated

**Proper shipping name:** None allocated

**Class:** None allocated

**Packaging group:** None allocated

**Marine pollutant:** None allocated

**SECTION 15 – REGULATORY INFORMATION**

**SUSMP Classification**            None allocated  
**Packaging & Labelling**        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
<b>National Poisons Information Centre:</b>	<b>Dial</b>	<b>13 11 26 (from anywhere in Australia)</b>
For 24 hour emergency response:	Dial	0439 933 556 Ask for Murray Goodlich