

## MATERIAL SAFETY DATA SHEET

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

**Product Name:** Kenso Agcare Ken-Amine 500 Selective Herbicide  
**Product Type:** Group I Herbicide  
**Company Name:** Kenso Corporation (M) Sdn Bhd  
**Address:** Kirkland Corner H/177, Old Cleveland Rd.  
Coorparoo Queensland 4151  
**Telephone Number:** (07) 3847 4288  
**Facsimile Number:** (07) 3847 4188  
**Emergency Telephone Number:** 000 (Police or Fire Brigade)  
**13 11 26 (Poisons Information Centre)**  
**Use:** Selective control of broadleaf weeds in various crops.

### SECTION 2 – HAZARDS IDENTIFICATION

**Hazard Classification:** Hazardous according to criteria of NOHSC Australia.  
**Risk Phrase(s):** R21/22 Harmful in contact with skin and if swallowed.  
R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.  
**Safety Phrase(s):** S20, 24/25. When using, do not eat and drink. Avoid contact with skin and eyes.  
**SUSDP Classification:** S5  
**ADG Classification:** None allocated  
**UN Number:** None allocated

### Emergency Overview

**Physical Description & colour:** Clear reddish brown liquid.  
**Odour:** Ammoniacal odour.

### Potential Health Effects

**Health Effects** No LD<sub>50</sub> information is available for this product.

**Acute:**

**Swallowed:** Harmful  
**Eye:** Cause irritation  
**Skin:** Cause irritation  
**Inhaled:** Irritation to respiratory system

**Chronic:**

Not available.

### SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS number	Proportion
2,4D as dimethylamine salt	2008-39-1	50 % w/v
Inert ingredient	secret	To 100 % w/v

#### SECTION 4 – FIRST AID MEASURES

<b>Swallowed</b>	If swallowed, and if more than 15 minutes from a hospital induce vomiting, preferably using Ipecac Syrup APF. Seek medical advice immediately.
<b>Eye</b>	Hold the eyes and flush immediately with plenty of water. Seek medical advice if irritation develops.
<b>Skin</b>	Remove contaminated clothing and wash affected areas or skin with soap and water. Seek medical advice if irritation develops.
<b>Inhaled</b>	Remove to fresh air, keep warm and at rest. Give artificial respiration or oxygen if breathing is shallow or stopped. Get medical attention immediately.

**Advice to Doctor:**

Treatment is symptomatic.

#### SECTION 5 – FIRE FIGHTING MEASURES

**Fire/Explosion Hazard**

**Dangerous decomposition or Combustion Products**

**Thermal decomposition**

Not a fire or explosion hazard

**Hazardous decomposition products**

None known

**Hazardous reactions**

None known

**Extinguishing Media**

Extinguish fire with foam, dry powder, carbon dioxide or water spray.

#### SECTION 6 – ACCIDENTAL RELEASE MEASURES

**Spills & 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

**Storage**

Store in the closed, original container in a well-ventilated area. Do not store for prolonged periods in direct sunlight.

**Transport**

Considered non-hazardous by Australian Code for the Transport of Dangerous Goods by Road and Rail.

## SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Exposure Standards:

None established for formulated product

Ingredient	TWA mg/m <sup>3</sup>
2,4-D Acid	10

### Engineering Controls:

Well ventilated

### 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

<b>Form:</b>	Liquid
<b>Colour:</b>	Clear reddish brown liquid
<b>Odour:</b>	Ammoniacal odour
<b>Boiling point (°C):</b>	Not available
<b>Vapour Pressure:</b>	Not available
<b>Specific Density:</b>	1.17 ± 0.01
<b>Flashpoint:</b>	Non flammable
<b>Flammability Limits:</b>	Non flammable
<b>Solubility in Water:</b>	Completely soluble

## SECTION 10 – STABILITY AND REACTIVITY

**Chemical stability:** This material is stable under normal use and storage conditions.

**Conditions to avoid:** No information available.

**Incompatible Materials:** No information available.

**Hazardous decomposition products:** Carbon monoxide, Carbon dioxide, Nitrogen oxides.

**Hazardous reactions:** No information available.

## SECTION 11 – TOXICOLOGICAL INFORMATION

### Toxicology:

2,4-D (dichlorophenoxyacetic acid)	LD <sub>50</sub> (oral, rat) 699 mg/kg LD <sub>50</sub> (dermal, rabbit) >2,000 mg/kg LC <sub>50</sub> (inhalation, rat) >1.79 mg/L (4hr) Not toxic to bees
Dimethylamine	LD <sub>50</sub> (oral, rat) 700 mg/kg
2,4-D (2,4-dichlorophenoxyacetic acid) dimethylamine salt:	AcuteLC50 (48 hr) for daphnia 184 mg/L

**Other information:**

In trials using 2,4-D as a drug, studies on volunteers have shown that doses of between 5 and 36mg/kg body weight do not cause any acute toxic effects. Formulated 2,4-D products can be absorbed by ingestion, inhalation (spray mist) and through the skin. Studies of users (sprayers) has shown that absorption through the skin is the most common route. When used with good agricultural spraying practice and good personal hygiene, absorption of 2,4-D is very low. 2,4-D does not accumulate in the body; a single dose of 2,4-D is rapidly excreted (in a few days), mainly in the urine. The Australian Acceptable Daily Intake (ADI) of 2,4-D for a human is 0.01 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 1 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Comm. Dept. of Health and Ageing, TGA, 'ADI List', September 2002).

<b>SECTION 12 – ECOLOGICAL INFORMATION</b>
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Avoid contaminating waterways.

**Ecotoxicity:** No information available.

**Persistence and degradability:** No information available.

**Mobility:** No information available.

<b>SECTION 13 – DISPOSAL CONSIDERATIONS</b>
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**Disposal:** Instructions concerning the disposal of this product and its containers are given on the product label. These should be carefully followed.

<b>SECTION 14 – TRANSPORT INFORMATION</b>
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<b>UN Number:</b>	None Allocated
<b>Proper Shipping Name:</b>	None Allocated
<b>ADG Class:</b>	None Allocated
<b>Hazchem Code:</b>	None Allocated
<b>Packing Group:</b>	None Allocated

<b>SECTION 15 – REGULATORY INFORMATION</b>
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<b>Poison schedule</b>	S5
<b>Packaging &amp; Labelling</b>	CAUTION KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING
<b>AICS (Australia)</b>	All of the components in this product are listed on the Australian Inventory of Chemical Substances.

<b>SECTION 16 – OTHER INFORMATION</b>
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**This MSDS 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>AICS</b>	Australian Inventory of Chemical Substances
<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

**SUSDP** Standard for the Uniform Scheduling of Drugs & Poisons  
**UN Number** United Nations Number

**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