

## SAFETY DATA SHEET

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

<b>Product Name:</b>	<b>Kenso Agcare Ken-Amine 720 Selective Herbicide</b>
<b>Product Type:</b>	Group I Herbicide
<b>Company Name:</b>	Kenso Corporation (M) Sdn Bhd
<b>Address:</b>	Level 1, 98 Commercial Road, Teneriffe, QLD 4005
<b>Telephone Number:</b>	(07) 3216 1188
<b>Facsimile Number:</b>	(07) 3216 0388
<b>Emergency Telephone Number:</b>	000 (Police or Fire Brigade) <b>13 11 26 (Poisons Information Centre)</b>
<b>Use:</b>	For the control of broadleaf weeds in fallow before direct drilling or sowing of cereals and pastures; and in cereal crops, pastures, sugar cane, peanuts and non-agricultural areas as per the Directions for Use.

### 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.



<b>GHS Signal Word:</b>	<b>WARNING</b>
<b>Hazard statements:</b>	H302: Harmful if swallowed. H317: May cause an allergic skin reaction. H318: Causes serious eye damage. H335: May cause respiratory irritation. H411: Toxic to aquatic life with long lasting effects.
<b>Prevention:</b>	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 in 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 and eye or face protection.
<b>Response:</b>	P301 + P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P302 + P352: IF ON SKIN: Wash with plenty of soap and water. P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P310: Immediately call a POISON CENTER or doctor/physician.  
 P312: Call a POISON CENTER or doctor/physician if you feel unwell.  
 P321: Specific treatment (see FIRST AID on this label).  
 P330: Rinse mouth.  
 P333 + P313: If skin irritation or rash occurs: Get medical advice/attention.  
 P363: Wash contaminated clothing before reuse.  
 P391: Collect spillage.  
 P403 + P233: Store in a well-ventilated place. Keep container tightly closed.  
 P405: Store locked up.

**Storage:**

**Disposal:**

**SUSMP Classification:**

**ADG Classification:**

**UN Number:**

P501: Dispose of contents and containers as specified on the registered label.  
 S6  
 None allocated. Not a dangerous good.  
 None allocated.

**Emergency Overview**

**Physical Description & colour:** Clear reddish brown liquid.

**Odour:** Ammoniacal odour.

**Major Health Hazards:** The oral LD<sub>50</sub> of 2,4-D ranges from 375 to 666 mg/kg in the rat, 370 mg/kg in mice, and from less than 320 to 1000 mg/kg in guinea pigs. The dermal LD<sub>50</sub> values are 1500 mg/kg in rats and 1400 mg/kg in rabbits, respectively. In humans, prolonged breathing of 2,4-D causes coughing, burning, dizziness, and temporary loss of muscle coordination. Other symptoms of poisoning can be fatigue and weakness with possible nausea. On rare occasions following high levels of exposure, there can be inflammation of the nerve endings with muscular effects.

**SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS**

Ingredients	CAS number	Proportion
2,4-D (present as dimethylamine salt)	2008-39-1	72%
Inert ingredients	secret	To 100%

**SECTION 4 – FIRST AID MEASURES**

<b>Inhalation:</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.
<b>Skin contact:</b>	Remove contaminated clothing and wash affected areas or skin with soap and water. Seek medical advice if irritation develops.
<b>Eye contact:</b>	Hold the eyes and flush immediately with plenty of water. Seek medical advice if irritation develops.
<b>Ingestion:</b>	If swallowed, do NOT induce vomiting; seek medical advice immediately and show this container or label or contact the Poisons Information Centre on 13 11

26 (Australia). Make every effort to prevent vomit from entering the lungs by careful placement of the patient. Give a glass of water.

**Note: Where medical attention is not immediately available or where patient is more than 15 minutes from a hospital or unless instructed otherwise: induce vomiting with fingers down back of the throat, only if conscious.** Lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.

**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.

**Personal Protection**

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

## 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

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

### Engineering Controls:

Ensure area is 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 amber to brown liquid
<b>Odour:</b>	Ammoniacal odour
<b>Boiling Point (°C):</b>	Not available
<b>Vapour Pressure:</b>	Not available
<b>Specific Density:</b>	1.23 ± 0.01
<b>Flashpoint:</b>	Non flammable
<b>Solubility:</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

Reaction of the concentrate or spray mix with acids will precipitate solid 2,4-D acid and largely deactivate the product and cause blockages in spray equipment. The addition of a strong alkali such as caustic soda will cause release of dimethylamine vapour. Dimethylamine is moderately toxic, LD<sub>50</sub> (oral, rat) is 700 mg/kg and a TLV of 10 ppm (TWA) has been set.

### Hazardous Reactions

Keep away from strong oxidising agents.

### Hazardous Polymerization

Hazardous polymerization is not possible.

## SECTION 11 – TOXICOLOGICAL INFORMATION

### Toxicology data (on 2,4-D acid)

#### Acute Toxicity – Oral

LD<sub>50</sub> (oral, rat) 699 mg/kg

#### Acute Toxicity – Dermal

LD<sub>50</sub> (dermal, rabbit) >2,000 mg/kg

#### Acute Toxicity – Inhalation

LC<sub>50</sub> (inhalation, rat) >1.79 mg/L (4hr)

### Toxicology data (on amines)

For Dimethylamine: LD<sub>50</sub> (oral, rat) 700 mg/kg

For Diethanolamine: LD<sub>50</sub> (oral, rat) 710 mg/kg

## Potential Health Effects

### Health Effects

#### Acute:

**Inhalation:** Irritation to respiratory system

**Skin contact:** Cause irritation

**Eye contact:** Cause irritation

**Ingestion:** Harmful

#### Chronic:

Not available.

#### **Other information:**

The Australian Acceptable Daily Intake (ADI) for 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 1.0 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, 'ADI List', TGA, March 2016). In trials using 2,4-D as a drug, studies on volunteers have shown that doses of between 5 and 36 mg/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.

## SECTION 12 – ECOLOGICAL INFORMATION

### Known Harmful Effects on the Environment

2,4-D amine products do not appear to pose any threat to birds.

2,4-D amine products do not appear to pose any threat to fish or other aquatic organisms other than in very high concentrations.

**Environ. Protection**

Spray drift can cause damage, read the label for more information.

**Acute Toxicity – Fish**

Not toxic to fish.

LC<sub>50</sub> (96 hr) for (rainbow trout) is ~100 mg/l.

**Acute Toxicity – Daphnia**

LC<sub>50</sub> (48hr) for 2,4-D amines is 184 mg/l.

**Acute Toxicity – Other Organisms**

Birds: Not toxic to birds. LD<sub>50</sub> for (mallard ducks) is >1000 mg/kg

Bees: Not toxic to bees. LD<sub>50</sub> 104.5 µg/bee.

**Sewage Treatment**

Not inhibitory in sewage system, 2,4-D is rapidly biodegraded.

**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**

**UN Number:** None allocated.  
**Proper Shipping Name:** None allocated.  
**ADG Class:** None allocated. Not a dangerous good.  
**Hazchem Code:** None allocated.  
**Packing Group:** None allocated.

**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

<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

**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