

## SAFETY DATA SHEET

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

**Product Name:** Kenso Agcare Ken-Up 450 CT  
**Product Type:** Non-Selective, Translocated Herbicide  
**Company Name:** Group M Herbicide  
**Address:** Kenso Corporation (M) Sdn Bhd  
Unit 3C/ 59, Oxford Street, Bulimba Queensland 4171  
**Telephone Number:** (07) 3217 9788  
**Facsimile Number:** (07) 3217 9733  
**Emergency Telephone Number:** 000 (Police or Fire Brigade)  
**13 11 26 (Poisons Information Centre)**  
**Use:** For the control of many annual, perennial and broadleaf weeds prior to crop establishment and as an aid to pasture management through manipulation and seed set control.

### 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.



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

**Hazard statement:**

H302: Harmful if swallowed.  
H315: Causes skin irritation.  
H318: Causes serious eye damage.  
H411: Toxic to aquatic life with long lasting effects.

**Prevention:**

P102: Keep out of reach of children.  
P262: Do not get in eyes, on skin or on clothing.  
P264: Wash contacted areas thoroughly after handling.  
P273: Avoid release to the environment.  
P280: Wear protective gloves, protective clothing and eye or face protection.

**Response:**

P330: Rinse mouth.  
P362: Take off contaminated clothing and wash before reuse.  
P391: Collect spillage.  
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.
	P332 + P313: If skin irritation occurs: Get medical advice.
	P337 + P313: If eye irritation persists: Get medical advice.
<b>Storage:</b>	P402 + P404: Store in a dry place. Store in a closed container.
	P403+P235: Store in a well-ventilated place. Keep cool.
<b>Disposal</b>	P501: Dispose of contents and containers as specified on the registered label.
<b>SUSMP Classification:</b>	S5
<b>ADG Classification:</b>	Not a dangerous good.
<b>UN Number:</b>	N/A

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### Emergency Overview

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**Physical Description & colour:** Clear blue liquid.

**Odour:** Slight ammoniacal odour.

**Major Health Hazards:** Glyphosate is practically nontoxic by ingestion, with a reported acute oral LD<sub>50</sub> of 5600 mg/kg in the rat. The toxicities of the technical (glyphosate acid) and the formulated product are nearly the same. No major health hazards are known.

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### Potential Health Effects

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#### Health Effects

##### Acute:

**Swallowed:** May cause gastrointestinal discomfort, nausea, vomiting and diarrhoea. If ingested large quantities of the undiluted product may result in hypotension and pulmonary oedema.

**Eye:** Cause irritation and conjunctivitis.

**Skin:** Cause irritation.

**Inhaled:** No adverse respiratory effects are anticipated.

##### Chronic:

Not available.

## SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS number	Proportion
Glyphosate (present as Isopropylamine salt)	38641-94-0	45%w/v
Inert ingredients	secret	<30%w/v
Water		to 100%w/v

#### SECTION 4 – FIRST AID MEASURES

<b>Swallowed:</b>	Rinse mouth with water. Give plenty of water to drink. Do NOT induce vomiting. Seek medical assistance.
<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 reactions

DO NOT mix, store or apply the product or spray solutions of the product in galvanised steel or unlined steel (except stainless steel) containers or spray tanks. The product or spray solutions of the product react with such containers and tanks to produce hydrogen gas which may form a highly combustible gas mixture that can flash or explode if ignited by open flame, spark, welder's torch, lighted cigarette or other ignition source. Spray solutions of the product should be mixed, stored and applied only in stainless steel, aluminium, fibreglass, plastic and plastic-lined steel containers.

#### Extinguishing Media

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

#### Fire Fighting

Breathable air apparatus should be worn when fighting a fire in which this product is involved.

#### 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 or its components

### 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 blue liquid
<b>Odour:</b>	Slight ammoniacal odour
<b>Boiling Point (°C):</b>	Not applicable
<b>Vapour Pressure:</b>	Not applicable
<b>Specific Gravity:</b>	1.20 ± 0.01
<b>Flashpoint:</b>	Non flammable
<b>Solubility:</b>	Soluble in water

## SECTION 10 – STABILITY AND REACTIVITY

### Chemical Stability

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

### Conditions to Avoid

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

### Incompatibilities

Strong oxidizing agents.

**Hazardous Polymerization**

Hazardous polymerisation is not possible.

**SECTION 11 – TOXICOLOGICAL INFORMATION**

**Toxicity data (on Glyphosate isopropylamine salt / technical)**

**Acute Toxicity – Oral**

LD<sub>50</sub> (rat): 5600 mg/kg

**Acute Toxicity – Dermal**

LD<sub>50</sub> (rabbits): >5000 mg/kg

**Other Information**

The Australian Acceptable Daily Intake (ADI) for glyphosate for a human is 0.3 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 30 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, August 2003).

**SECTION 12 – ECOLOGICAL INFORMATION**

**Known Harmful Effects on the Environment**

Harmful to fish and other aquatic organisms (mainly due to the surfactant).

**Other Precautions**

Do not spray in high winds. Do not contaminate dams, waterways or sewers with this product.

**Environ. Protection**

Glyphosate is a non-selective contact herbicide. Spray drift can cause damage.

**Persistence / Degradability**

Adsorption studies indicate that glyphosate has very low mobility. Average field half-life of glyphosate is 47 days.

**Acute Toxicity – Fish**

The following is data for a similar product.

LC<sub>50</sub> (96 hr) for bluegill sunfish is 5.8 - 14 mg/l.

LC<sub>50</sub> (96 hr) for rainbow trout is 8.2 - 26 mg/l.

LC<sub>50</sub> (96 hr) for fathead minnow is 9.4 mg/l.

TL<sub>50</sub> (96hr) carp is 19.7 ppm

**Acute Toxicity – Other Organisms**

The following data is for the active ingredient, glyphosate.

Birds: Not toxic to birds. LD<sub>50</sub> for bobwhite quail is >3850 mg/kg

Bees: Not toxic to bees. LD<sub>50</sub> >100 µg/bee.

**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 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 0439 933 556  
Ask for Murray Goodlich