

## SAFETY DATA SHEET

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

<b>Product Name:</b>	<b>Kenso Agcare Ken-Up Aquatic 360 Herbicide</b>
<b>Product Type:</b>	Group M 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>Emergency Telephone Number:</b>	000 (Police or Fire Brigade) <b>13 11 26 (Poisons Information Centre)</b>
<b>Use:</b>	A non-selective herbicide for the control of a range of annual, perennial, and woody weeds as indicated in 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 statement:</b>	H315: Causes skin irritation. H318: Causes serious eye damage. H411: Toxic to aquatic life with long lasting effects.
<b>Prevention:</b>	P264: Wash contacted areas thoroughly after handling. P273: Avoid release to the environment. P280: Wear protective gloves/eye protection/face protection.
<b>Response:</b>	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. P310: Immediately call a POISON CENTER/doctor/physician. P321: Specific treatment (see FIRST AID on this label) P332 + P313: If skin irritation occurs: Get medical advice/attention. P362 + P364: Take off contaminated clothing and wash it before reuse. P391: Collect spillage.
<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>	None allocated.

## Emergency Overview

**Physical Description & colour:** Clear yellow 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 acid (glyphosate) and the formulated product are nearly the same. This product is irritating to eyes and skin.

## SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS number	Proportion
Glyphosate (present as Isopropylamine salt)	38641-94-0	36%
Inert Ingredients	secret	<15%
Water	7732-18-5	to 100%

## SECTION 4 – FIRST AID MEASURES

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

### 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 yellow liquid
<b>Odour:</b>	Slight ammoniacal odour
<b>Boiling point (°C):</b>	Not applicable
<b>Vapour Pressure:</b>	Not applicable
<b>Specific Density:</b>	1.17 ± 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:

No particular incompatibilities.

### Fire Decomposition

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 phosphorus and other phosphorus compounds. 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.

### Polymerization

This product is unlikely to undergo polymerisation.

## 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 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 NOAEL 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. \*ADI= Acceptable Daily Intake; NOAEL: No Observable Adverse Effect Level. Data adopted from Australia ADI List, March 2021.

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## Potential Health Effects

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### Health Effects

#### Acute:

- Inhalation:** No adverse respiratory effects are anticipated.
- Skin contact:** Cause irritation.
- Eye contact:** Cause irritation and conjunctivitis.
- Ingestion:** May cause gastrointestinal discomfort, nausea, vomiting and diarrhoea. If ingested large quantities of the undiluted product may result in hypotension and pulmonary oedema.

#### Chronic:

Not available.

## SECTION 12 – ECOLOGICAL INFORMATION

### **Known Harmful Effects on the Environment**

Technical glyphosate acid is practically nontoxic to fish and may be slightly toxic to aquatic invertebrates.

### **Acute Toxicity - Fish**

The following data is for the formulated product.

Not toxic to fish.

LC<sub>50</sub> (96 hr) for rainbow trout is >989 mg/l.

LC<sub>50</sub> (96 hr) for carp is >895 mg/l.

### **Acute Toxicity – Other Organisms**

Birds: Not toxic to birds. LD<sub>50</sub> for mallard ducks and bobwhite quail (diet) is >5620 mg/kg

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

### **Persistence / Degradability**

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

### **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.

## 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

<b>Storage and Transport</b>	Not a dangerous good.
<b>UN Number (Sea Transport):</b>	None allocated.
<b>IMO Class/Packing Group:</b>	None allocated.
<b>IMO Marine Pollutant:</b>	None allocated.
<b>IMO Proper Shipping Name:</b>	None allocated.
<b>Hazchem code:</b>	None allocated.
<b>ADG Class:</b>	Not a dangerous good.

## 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	0439 933 556 Ask for Murray Goodlich