

SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Product Name:	Kenso Agcare Ken-Up Aquatic 360 Herbicide
Product Type:	Group 9 Herbicide
Company Name:	Kenso Corporation (M) Sdn Bhd
Address:	Level 1, 98 Commercial Road, Teneriffe QLD 4005
Telephone Number:	(07) 3216 1188
Emergency Telephone Number:	000 (Police or Fire Brigade) 13 11 26 (Poisons Information Centre)
Use:	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.



Classification of the Hazardous Chemical:	Skin corrosion/irritation – Category 2 Serious eye damage/eye irritation – Category 1 Hazardous to the aquatic environment, long term – Chronic 2
GHS Signal Word:	WARNING
Hazard statements:	H315: Causes skin irritation. H318: Causes serious eye damage. H411: Toxic to aquatic life with long lasting effects.
Prevention:	P264: Wash contacted areas thoroughly after handling. P273: Avoid release to the environment.
Response:	P280: Wear protective gloves/eye protection/face protection. 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.
Disposal:	P501: Dispose of contents/container as specified on the registered label
SUSMP Classification:	S5

ADG Classification: Not a dangerous good
UN Number: 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 LD₅₀ 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

Ingestion:	Rinse mouth with water. Give plenty of water to drink. Do NOT induce vomiting. Seek medical assistance.
Skin contact:	Remove contaminated clothing and wash affected areas or skin with soap and water. Seek medical advice if irritation develops.
Eye contact:	Hold the eyes and flush immediately with plenty of water. Seek medical advice if irritation develops.
Inhalation:	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

Form:	Liquid
Colour:	Clear yellow liquid
Odour:	Slight ammoniacal odour
Boiling point (°C):	Not applicable
Vapour Pressure:	Not applicable
Specific Density:	1.17 ± 0.01
Flashpoint:	Non flammable
Solubility:	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

LD₅₀ (rat): 5600 mg/kg

Acute Toxicity – Dermal

LD₅₀ (rabbits): >5000 mg/kg

Potential Health Effects

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.

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, December 2023.

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.

LC₅₀ (96 hr) for rainbow trout is >989 mg/l.

LC₅₀ (96 hr) for carp is >895 mg/l.

Acute Toxicity – Other Organisms

Birds: Not toxic to birds. LD₅₀ for mallard ducks and bobwhite quail (diet) is >5620 mg/kg

Bees: Not toxic to bees. LD₅₀ >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

ADG

UN Number:	None allocated
Proper shipping name:	None allocated
Class:	None allocated
Packaging group:	None allocated
Hazchem:	None allocated
Storage and Transport:	Not a dangerous good

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	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	0428 776 327 Ask for Russell Clark