

SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Product Name:	Kenso Agcare Max Out 600 Duo 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:	For the control of a range of annual and perennial 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.



GHS Signal Word: **WARNING**

Hazard statements:

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H411: Toxic to aquatic life with long lasting effects.

Prevention:

P264: Wash contacted areas thoroughly after handling.

P273: Avoid release to the environment.

P280: Wear eye protection/face protection/protective gloves.

Response:

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.

P321: Specific treatment (see FIRST AID on this label)

P332 + P313: If skin irritation occurs: Get medical advice/attention.

P337 + P313: If eye irritation persists: Get medical advice/attention.

P362 + P364: Take off contaminated clothing and wash it before reuse.

P391: Collect spillage.

Disposal:

P501: Dispose of contents and containers as specified on the registered label.

SUSMP Classification:

S5

ADG Classification:

None allocated. Not a dangerous good.

UN Number:

None allocated.

Emergency Overview

Physical Description & colour: Yellow liquid.

Odour: Characteristic

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. No major health hazards are known.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS number	Proportion
Glyphosate (present as potassium and monoethanolamine salts)	1071-83-6	60%
Inert ingredients	secret	<10%
Water	7732-18-5	to 100%

SECTION 4 – FIRST AID MEASURES

General Information:

If poisoning occurs, contact a doctor or Poisons Information Centre, Phone Australia 131 126.

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.
Skin contact:	Remove contaminated clothing and wash affected area 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.
Ingestion:	Rinse mouth with water. Give plenty of water to drink. Do NOT induce vomiting. Seek medical assistance.

Advice to Doctor

Treat symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

Fire/Explosion Hazards

Dangerous Decomposition or Combustion Products

Thermal Decomposition

Not a fire or explosion hazard

Hazardous Decomposition Products

None known

Hazardous Reactions

DO NOT mix, store or apply the product or spray solutions of the product in galvanized 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.

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 day 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.

Exposure Limits

The ADI for Glyphosate is set at 0.3mg/kg/day. The corresponding NOEL is set at 30mg/kg/day. ADI means Acceptable Daily Intake and NOEL means No-observable-effect-level.

**Data adopted from Australia ADI List, APVMA, March 2021.*

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Colour:	Yellow liquid
Odour:	Characteristic odour
pH:	4 - 6
Boiling point (°C):	100°C
Vapour Pressure:	Not available
Flashpoint:	Not available
Flammability:	Not available
Specific Gravity:	1.40 ± 0.05
Solubility	Soluble in water

SECTION 10 – STABILITY AND REACTIVITY

Stability

Stable under normal conditions of handling and storage.

Hazardous decomposition

Thermal decomposition that could occur if involved in a fire fuelled by other flammable materials:

Hazardous products of combustion: see section 5.

Materials to avoid/Reactivity

Reacts with galvanised steel or unlined mild steel to produce hydrogen, a highly flammable gas that could explode if ignited.

SECTION 11 – TOXICOLOGICAL INFORMATION

Toxicity data:

Acute Toxicity – Oral

LD₅₀ (rat): >5000 mg/kg

Acute Toxicity - Dermal

LD₅₀ (rabbit): >5000 mg/kg

Acute Toxicity – Inhalation:

LC₅₀ (rat) (4hr) (aerosol): >1.20 mg/L

Skin irritation

Rabbit, 3 animals, OECD 404 test: Days to heal: 14

Eye irritation

Rabbit, 3 animals, OECD 405 test: Days to heal: 3

Skin Sensitization

Guinea pig, Buehler test: Positive incidence: 0 %

Potential Health Effects

Health Effects

Acute:

- Inhalation:** Available data indicates that this product is not harmful. However, this product may be mildly irritating, but is unlikely to cause anything more than mild transient discomfort.
- Skin contact:** Available data indicates that this product is not harmful. It should present no hazards in normal use. In addition, this product is a skin irritant. Symptoms may include itchiness and reddening of contacted skin. Other symptoms may also become evident, but all should disappear once exposure has ceased.
- Eye contact:** Available data shows that this product is not harmful. In addition, this product is an eye irritant. Symptoms may include stinging and reddening of eyes and watering which may become copious. Other symptoms may also become evident. If exposure is brief, symptoms should disappear once exposure has ceased. However, lengthy exposure or delayed treatment may cause permanent damage.
- Ingestion:** No significant adverse health effects are expected to develop if only small amounts (less than a mouthful) are swallowed. Ingestion of similar formulations has been reported to produce gastrointestinal discomfort with irritation of the mouth, nausea, vomiting and diarrhoea. Oral ingestion of large quantities of one similar product has been reported to result in hypotension and lung oedema.

Mutagenicity

In vitro and in vivo mutagenicity test(s): Not mutagenic.

Chronic effects/carcinogenicity:

- Mouse, oral, 24 months: NOAEL toxicity: ~ 5,000 mg/kg diet
Target organs/systems: liver
Other effects: decrease of body weight gain, histopathologic effects
NOEL tumour: > 30,000 mg/kg diet
Tumours: none
- Rat, oral, 24 months: NOAEL toxicity: ~ 8,000 mg/kg diet
Target organs/systems: eyes
Other effects: decrease of body weight gain, histopathologic effects
NOEL tumour: > 20,000 mg/kg diet
Tumours: none

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.

Environmental 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.

LC₅₀ (96 hr) for rainbow trout is 3.13 mg/l.

Acute Toxicity – Invertebrates

The following is data for a similar product.

EC₅₀ (48 hr) for Daphnia magna is 8.0 mg/l.

Acute Toxicity – Other Organisms

The following data is for the active ingredient, glyphosate.

Birds: Not toxic to birds. LD₅₀ for bobwhite quail is >3850 mg/kg

Bees: Not toxic to bees. LD₅₀ >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

U.N. Number (Sea Transport)	None allocated.
IMO Proper Shipping Name:	None allocated.
IMO Class/Packing Group	None allocated.
Hazchem Code	None allocated.
ADG Class	None allocated. Not a dangerous good.

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