

SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Product Name:	Kenso Agcare Ken-Up Dry 680 WG Herbicide
Product Type:	Group M Herbicide
Company Name:	Kenso Corporation (M) Sdn Bhd
Address:	Level 1, 98 Commercial Road, Teneriffe, 4005 QLD.
Telephone Number:	(07) 3216 1188
Facsimile Number:	(07) 3216 0388
Emergency Telephone Number:	000 (Police or Fire Brigade) 13 11 26 (Poisons Information Centre)
Use:	For the control of many annual and perennial weeds in certain situations as stated in the Directions for Use Table.

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:	DANGER
Hazard statement:	H318: Causes serious eye damage. H411: Toxic to aquatic life with long lasting effects.
Prevention:	P102: Keep out of reach of children. P273: Avoid release to the environment. P280: Wear protective gloves, protective clothing and eye or face protection.
Response:	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 or doctor/physician. 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: Pale yellow granules.

Odour: Musty 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. No major health hazards are known.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS number	Proportion
Glyphosate (present as mono-ammonium salt)	1071-83-6	68%
Inert Ingredients	secret	to 100%

SECTION 4 – FIRST AID MEASURES

General Information:

If poisoning occurs, contact a doctor or Poisons Information Centre (Tel: 131126).

Inhalation:	Remove to fresh air until recovered.
Skin contact:	Remove contaminated clothing, wash skin with plenty of soap and water. Discard contaminated non-waterproof shoes and boots. If irritation persists, seek medical advice.
Eye contact:	Flush eyes immediately with plenty of fresh water for at least 15 minutes while holding the eyelids open. Remove contact lenses if worn. However, if irritation persists, see a doctor.
Ingestion:	If swallowed, do not induce vomiting, seek medical advice immediately. Make every effort to prevent vomit from entering the lungs by careful placement of the patient. Do not give anything by mouth to a semi-conscious or unconscious person. Rinse mouth thoroughly with water.

Advice to Doctor:

Treatment is symptomatic.

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, fiberglass, plastic and plastic-lined steel containers.

Extinguishing Media

Water, foam, carbon dioxide or dry chemical.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spills and Disposal

Recover the product by sweeping up or vacuuming without raising dust. Collect in sealed open top containers for disposal. Final clean up with degreasing agent or detergent is advised.

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 Limits

No exposure standards have been established for this product by Worksafe Australia, however, the TWA exposure standard for dusts not otherwise specified is 10 mg/m³.

Engineering Control

No special ventilation required.

Protective Equipment

Skin contact should be minimized during preparation of spray solution by wearing protective clothing including elbow-length PVC gloves and face shield. If product contacts skin, immediately wash area with soap and water. After each use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. Wash gloves, face shield and contaminated clothing before reuse.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Form:	Granules
Colour:	pale yellow
Odour:	Musty odour
Boiling Point (°C):	N/A
Bulk Density:	0.6 g/kg
Vapour Pressure:	N/A
Vapour Density:	N/A
Flash Point:	Non flammable
Solubility:	Soluble in water

SECTION 10 – STABILITY AND REACTIVITY

Hazardous Polymerization

Hazardous polymerisation is not possible.

Materials to Avoid

Corrosive to mild steel, galvanised steel and zinc. Non corrosive to stainless steel, polyethylene and plastics. 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.

SECTION 11 – TOXICOLOGICAL INFORMATION

Acute Toxicity – Oral

LD₅₀ (rats) = 2814 mg/kg for a similar formulation

Acute Toxicity- Dermal

LD₅₀ (rabbits) > 5000 mg/kg for a similar formulation

Potential Health Effects

Health Effects

No harmful effects are expected if the precautions on the label and this SDS are followed.

Acute:

- Inhalation:** May cause irritation to mucous membranes and respiratory tract. Avoid breathing in spray mists when applying the product as a spray.
- Skin contact:** Will cause irritation.
- Eye contact:** Will cause irritation and possible damage unless washed off immediately.
- Ingestion:** The concentrate is of low toxicity if swallowed. Amounts swallowed incidental to normal handling procedures and use are not expected to cause injury. Ingestion of this product may cause gastrointestinal discomfort, nausea, diarrhoea and vomiting.

Chronic toxicity:

Studies of glyphosate lasting up to 2 years, have been conducted with rats, dogs, mice and rabbits, and with few exceptions no effects were observed. For example, in a chronic feeding study with rats, no toxic effects were observed in rats given doses as high as 400 mg/kg/day. Also, no toxic effects were observed in a chronic feeding study with dogs fed up to 500 mg/kg/day, the highest dose tested.

Other Information

The Australian Acceptable Daily Intake (ADI) for glyphosate is set at 0.3 mg/kg/day with corresponding NOEL is set at 30 mg/kg/day. Values taken from Australia ADI List, March 2016.

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 bluegill sunfish is 5.8 - 14 mg/l.

LC₅₀ (96 hr) for rainbow trout is 8.2 - 26 mg/l.

LC₅₀ (96 hr) for fathead minnow is 9.4 mg/l.

TL₅₀ (96hr) carp is 19.7 ppm

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

Product Disposal

On site disposal of the concentrated product is not acceptable. The product should be used for its intended purpose. If there is a need to dispose of the product, approach local authorities who hold periodic collection of unwanted chemicals (ChemCollect).

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