


## SAFETY DATA SHEET

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

|                                    |                                                                                                                                                                                     |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Name:</b>               | <b>Kenso Agcare Ken-Up Grand 450 CT Non-Selective, Translocated 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, 4005 QLD.                                                                                                                                   |
| <b>Telephone Number:</b>           | (07) 3216 1188                                                                                                                                                                      |
| <b>Emergency Telephone Number:</b> | 000 (Police or Fire Brigade)<br><b>13 11 26 (Poisons Information Centre)</b>                                                                                                        |
| <b>Use:</b>                        | For the control of many annual and perennial grasses and broadleaf weeds prior to crop establishment and as an aid to pasture management through manipulation and seed set control. |

### SECTION 2 – HAZARDS IDENTIFICATION

|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Hazard Classification:</b>                    | Classified as hazardous according to criteria of Safe Work Australia.<br>Not classified as a Dangerous Good according to the ADG Code.                                                                                                                                                                                                                                                                                                                                                                             |
|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Classification of the Hazardous Chemical:</b> | Skin corrosion/ irritation – Category 2<br>Serious eye damage/ eye irritation – Category 2,2A<br>Hazardous to the aquatic environment, long term – Chronic 2                                                                                                                                                                                                                                                                                                                                                       |
| <b>GHS Signal Word:</b>                          | <b>WARNING</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Hazard statement:</b>                         | H315: Causes skin irritation.<br>H319: Causes serious eye irritation.<br>H411: Toxic to aquatic life with long lasting effects.                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Prevention:</b>                               | P264: Wash contacted areas thoroughly after handling.<br>P273: Avoid release to the environment.<br>P280: Wear protective gloves, protective clothing and eye or face protection.                                                                                                                                                                                                                                                                                                                                  |
| <b>Response:</b>                                 | P302 + P352: IF ON SKIN: Wash with plenty of soap and water.<br>P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P321: Specific treatment (see FIRST AID on this label).<br>P332 + P313: If skin irritation occurs: Get medical advice.<br>P337 + P313: If eye irritation persists: Get medical advice.<br>P362 + P364: Take off contaminated clothing and wash it before reuse.<br>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 blue solution.

**Odour:** slight 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. No major health hazards are known.

### SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredients                            | CAS number | Proportion |
|----------------------------------------|------------|------------|
| Glyphosate (present as potassium salt) | 1071-83-6  | 45%        |
| Inert ingredients                      | secret     | <35%       |
| Water                                  | 7732-18-5  | To 100%    |

### SECTION 4 – FIRST AID MEASURES

**General Information:**

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

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

**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**

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

## **SECTION 6 – ACCIDENTAL RELEASE MEASURES**

### **Spills & 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 solution |
| <b>Odour:</b>            | Slight odour        |
| <b>Vapour Pressure:</b>  | Not applicable      |
| <b>Specific Gravity:</b> | 1.32 ± 0.02         |
| <b>Flashpoint:</b>       | Non flammable       |
| <b>Solubility:</b>       | 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

### Acute Toxicity – Oral

LD<sub>50</sub> for rats: >5000 mg/kg body weight

### Acute Toxicity – Dermal

LD<sub>50</sub> for rabbits: >5000 mg/kg body weight

### Acute Toxicity – Inhalation

LC<sub>50</sub> (4hr) for rats (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

Product will irritate the eye. May irritate the nose and throat. Repeated exposure may cause allergic disorders.

- 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

#### **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.

\*ADI= Acceptable Daily Intake; NOAEL: No Observable Adverse Effect Level. Data adopted from Australia ADI List, December 2022.

## **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.

LC<sub>50</sub> (96 hr) for rainbow trout is 3.13 mg/l.

**Acute Toxicity – Invertebrates**

The following is data for a similar product.

EC<sub>50</sub> (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. 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**

**ADG**

|                                |                                       |
|--------------------------------|---------------------------------------|
| <b>UN Number:</b>              | None allocated                        |
| <b>Proper Shipping Name:</b>   | None allocated.                       |
| <b>Class:</b>                  | None allocated. Not a dangerous good. |
| <b>Packing Group:</b>          | None allocated.                       |
| <b>Hazchem :</b>               | None allocated.                       |
| <b>Storage and transport :</b> | None allocated.                       |

**IMO-IMDG**

|                              |                                       |
|------------------------------|---------------------------------------|
| <b>UN Number:</b>            | None allocated                        |
| <b>Proper Shipping Name:</b> | None allocated.                       |
| <b>Class:</b>                | None allocated. Not a dangerous good. |
| <b>Packing Group:</b>        | None allocated.                       |
| <b>Marine pollutant :</b>    | None allocated                        |

**SECTION 15 – REGULATORY INFORMATION**

|                                  |                                                                                            |
|----------------------------------|--------------------------------------------------------------------------------------------|
| <b>SUSMP Classification</b>      | S5                                                                                         |
| <b>Packaging &amp; Labelling</b> | CAUTION<br>KEEP OUT OF REACH OF CHILDREN<br>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        | 0428 776 327                                 |
|                                             |             | Ask for Russell Clark                        |