


SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Product Name:	Kenso Agcare Kokamba Herbicide
Product Type:	Group I + 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 grasses and broadleaf weeds prior to crop establishment as per 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:	WARNING
Hazard statements:	H320: Causes eye irritation. H332: Harmful if inhaled H411: Toxic to aquatic life with long lasting effects.
Prevention:	P261: Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P264: Wash contacted area thoroughly after handling. P271: Use only outdoors or in a well-ventilated area. P273: Avoid release to the environment. P280: Wear protective gloves, protective clothing and eye or face protection.
Response:	P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305 + P 351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312: Call a POISON CENTER or doctor/physician if you feel unwell. P337+313: If eye irritation persists: Get medical advice/attention.
Storage:	P405: Store locked up.
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: Brown colour granules

Odour: Characteristic odour

Major Health Hazards: Harmful if inhaled. Will irritate the eyes and skin. Avoid contact with eyes and skin. Do not inhale spray mist.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS number	Proportion
Glyphosate (present as mono-ammonium salt)	1071-83-6	54.1 %
Dicamba	1918-00-8	10.5 %
Inert ingredients	secret	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 until recovered. If symptoms persist, seek medical advice.
Skin contact:	Remove contaminated clothing and launder before use. Wash affected areas or skin thoroughly with soap and water. Seek medical advice if irritation develops.
Eye contact:	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Seek immediate medical attention.
Ingestion:	If product is swallowed or gets in mouth, do not induce vomiting; wash mouth with water and give some water to drink. If symptoms develop, or if in doubt contact a Poisons Information Centre or a doctor.

Advice to Doctor:

Treat symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

Fire/Explosion Hazards

Dangerous Decomposition or Combustion Products

Thermal Decomposition

Product is not readily combustible under normal conditions. Yet, it will break down under fire conditions, emitting carbon monoxide, phosphorus oxides, nitrogen oxides, and hydrogen chloride.

Extinguishing Media

Water fog, foam, carbon dioxide or dry chemical.

Fire Fighting

If a significant quantity of this product is involved in a fire, call the fire brigade. There is little danger of a violent reaction or explosion if significant quantities of this product are involved in a fire. Fire-fighter should wear appropriate protective equipment with self-contained breathing apparatus.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spills & Disposal

Sweep up material and contain in a refuse vessel for disposal in the same manner as for packaging.

Personal Protection

For appropriate personal protective equipment (PPE), refer Section 8.

SECTION 7 – HANDLING AND STORAGE

Handling

When opening the container and preparing (spray) wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and elbow-length chemical resistant gloves. If applying by boomspray equipment, when using the prepared (spray) wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and elbow-length chemical resistant gloves and disposable mist face mask covering mouth and nose. If product on skin, immediately wash area with soap and water. If product in eyes, wash it out immediately with water. Wash hands after use. After each day's use, wash gloves and contaminated clothing.

Storage

Store in the closed, original container in a dry, cool, well-ventilated area. Do not store for prolonged periods in direct sunlight. Do not store near food, feedstuffs, fertilisers or seeds.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

National Exposure Standards

No exposure standards have been set for this product. ADI for Dicamba is set at 0.03 mg/kg/day with corresponding NOEL is set at 3 mg/kg/day. 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; NOEL: No Observable Effect Level. Data adopted from Australia ADI List, Mac 2016.*

Engineering Controls

Handle in well ventilated areas, generally natural ventilation is adequate.

Personal Protective Equipment

When opening the container, preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and elbow-length chemical resistant gloves. If applying by boomspray equipment, when using the prepared (spray) wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and elbow-length chemical resistant gloves and disposable mist face mask covering mouth and nose.

Eye Protection

Eye protection is essential. Wear a face shield or goggles.

Hygiene Measures

After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash contaminated clothing and safety equipment.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Form:	Granules
Colour:	Brown colour
Odour:	Characteristic odour
pH:	3.0 – 7.0
Boiling Point (°C):	Not available
Flashpoint:	Non flammable
Vapour Pressure:	Not available
Specific gravity:	0.05 g/cm ³
Water Solubility:	Soluble in water

SECTION 10 – STABILITY AND REACTIVITY

Reactivity

Stable under normal conditions. Do not mix or store or apply this product or spray solution in galvanized steel or unlined steel container or spray tanks. It reacts with such containers producing hydrogen gas, a highly flammable gas that could explode.

Conditions to Avoid

Store in the closed original container in a dry, cool, well-ventilated area, out of direct sunlight.

Incompatibilities

Galvanized steel, unlined steel.

Fire Decomposition

Hazardous products of combustion: See Section 5.

Polymerisation

This product will not undergo polymerisation reactions.

SECTION 11 – TOXICOLOGICAL INFORMATION

Toxicity data

Acute Toxicity – Oral

LD₅₀ (rat): >5000 mg/kg

Acute Toxicity - Dermal

LD₅₀ (rat): >2000 mg/kg

Acute Toxicity – Inhalation:

LC₅₀ (rats) (4hr): <5 mg/L

Skin irritation: NON IRRITANT

Eye irritation: MILDLY IRRITATING

Sensitization: NON SENSITISER

Potential Health Effects

Health Effects

Product is a mild eye-irritant, will irritate the eyes and skin. Avoid contact with eyes and skin.

Acute:

- Inhalation:** Product may cause irritation to mucous membrane and respiratory tract. When applying as spray, avoid breathing in spray mists.
- Skin contact:** Product should present no hazards in normal use. However, this product maybe irritating yet unlikely to cause anything more than mild transient comfort.
- Eye contact:** Product is mild eye irritant. Symptoms such as redness, pain, blurred vision may develop but it disappear when exposure stopped and first aid measure taken.
- Ingestion:** This product is harmful if swallowed; do not induce vomiting unless instructed by poison center or doctor. Do not give anything by mouth to an unconscious person.

Reproductive Toxicity

Data indicates reproductive toxicity in both dicamba and glyphosate technical based on some evidence of adverse effects on animal experiments.

Mutagenicity

Data indicates no mutagenic effects.

Carcinogenicity

Dicamba and glyphosate technical both are not classified as human carcinogen.

Other Information

The Australian Acceptable Daily Intake (ADI) for Dicamba is set at 0.03 mg/kg/day with corresponding NOEL is set at 3 mg/kg/day. ADI for Glyphosate is set at 0.3 mg/kg/day with corresponding NOEL is set at 30 mg/kg/day.

SECTION 12 – ECOLOGICAL INFORMATION

Toxic to aquatic life with long lasting effects.

Ecotoxicity data (of technical)

Acute Toxicity – Bird

LD₅₀ mallard duck: 1373 mg/kg for dicamba;

LD₅₀ bobwhite quail: >3851 mg/kg for glyphosate.

Acute Toxicity – Fish

LC₅₀ trout (96 hrs): 135 mg/L for dicamba; 86 mg/L for glyphosate.

Acute Toxicity – Crustaceans

Daphnia LC₅₀ (48 hrs): 120.7 mg/L for dicamba; 780 mg/L for glyphosate.

Acute Toxicity – Other organisms

Algae: LC₅₀: >3.7 to 41 mg/L depending on species for dicamba.

Algae: E_bC₅₀ Green algae (72 hrs): 485 mg/L for glyphosate.

Bees: LD₅₀ (contact): >100 µg/bee for dicamba; >100 µg/bee for glyphosate.

ENVIRONMENTAL FATE

Dicamba technical: microbial degradation occurs in soil, principal metabolite is 3, 6-dichlorosalicylic acid. Under conditions amenable to rapid metabolism, DT₅₀ < 14 days. K_{oc} 242-2930, depending on soil; Glyphosate technical: Major metabolite in soil and water is aminomethylphosphonic acid. In soil, DT₅₀ 1-130 days depending on climatic conditions. Photo degradation in natural water occurs, DT₅₀ 33-77 days.

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	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