


## SAFETY DATA SHEET

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

<b>Product Name:</b>	<b>Kenso Agcare Kudos 850 WG Herbicide</b>
<b>Product Type:</b>	Group 15 Herbicide
<b>Company Name:</b>	Kenso Corporation (M) Sdn Bhd
<b>Address:</b>	Level 1, 98 Commercial Road, Teneriffe QLD 4005
<b>Telephone Number:</b>	(07) 3216 1188
<b>Emergency Telephone Number:</b>	000 (Police or Fire Brigade) <b>13 11 26 (Poisons Information Centre)</b>
<b>Use:</b>	For the pre-emergence control of annual ryegrass, barley grass, annual phalaris, silver grass and toad rush and suppression of certain grass weeds in wheat (not durum wheat) and triticale as specified in the DIRECTIONS FOR USE table.

### SECTION 2 – HAZARDS IDENTIFICATION

<b>Hazard Classification:</b>	Classified as hazardous according to criteria of Safe Work Australia. Not classified as a Dangerous Good according to the ADG Code.
	
<b>GHS Signal Word:</b>	<b>DANGER</b>
<b>Hazard statements:</b>	H317: May cause an allergic skin reaction. H351: Suspected of causing cancer. H373: May cause damage to organs through prolonged or repeated exposure. H410: Very toxic to aquatic life with long lasting effects.
<b>Prevention:</b>	P201: Obtain special instructions before use. P202: Do not handle until all safety precautions have been read and understood. P260: Do not breathe dust/fume/gas/mist/vapours/spray. P272: Contaminated work clothing should not be allowed out of the workplace. P273: Avoid release to the environment. P280: Wear protective gloves/protective clothing/eye protection/face protection
<b>Response:</b>	P302 + P352: IF ON SKIN: Wash with plenty of soap and water. P308 + P313: IF exposed or concerned: Get medical advice/attention. P314: Get medical advice/attention if you feel unwell.

	P321: Specific treatment (see FIRST AID on this label)
	P333 + P313: If skin irritation or rash occurs: Get medical advice/attention.
	P362 + P364: Take off contaminated clothing and wash it before reuse.
<b>Storage:</b>	P391: Collect spillage.
<b>Disposal:</b>	P405: Store locked up.
<b>SUSMP Classification:</b>	P501: Dispose of contents and containers as specified on the registered label.
<b>ADG Classification:</b>	S6
<b>UN Number:</b>	Not a dangerous good.
	None allocated.

### Emergency Overview

**Physical Description & colour:** Light brown granules

**Odour:** No characteristic odour.

**Major Health Hazards:** Harmful if inhaled or swallowed. Will irritate the eyes and skin. Repeated exposure may cause allergic disorders.

### SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS number	Proportion
Pyoxasulfone	447399-55-5	85%
Inert ingredients	secret	to 100%

### SECTION 4 – FIRST AID MEASURES

**General Information:**

If poisoning occurs, contact a doctor or Poisons Information Centre, Phone Australia 13 11 26.

<b>Inhalation:</b>	Remove the victim to fresh air until recovered. Seek medical attention if discomfort or irritation continues.
<b>Skin contact:</b>	Remove contaminated clothing, wash skin with plenty of soap and water. Seek medical attention if irritation persists.
<b>Eye contact:</b>	Flush eyes immediately with plenty of fresh water for at least 15 minutes while holding the eyelids open. Seek medical attention if irritation persists. Take special care if contact lenses are worn.
<b>Ingestion:</b>	If swallowed, rinse mouth thoroughly with water and do NOT induce vomiting; seek medical advice immediately and show this container or label or contact the Poisons Information Centre on 13 11 26 (Australia).

**Advice to Doctor**

Treat symptomatically. There is no specific antidote. If more than a mouthful has been ingested, administer activated charcoal and sodium sulphate

## SECTION 5 – FIRE FIGHTING MEASURES

### Fire/Explosion Hazards

#### Dangerous Decomposition or Combustion Products

Combustion Products may emit toxic fumes such as oxides of carbon, oxides of nitrogen, hydrogen cyanide, hydrogen fluoride, sulphur oxides.

#### Thermal Decomposition

This product is not flammable but likely to decompose only after heating to dryness, followed by further extreme heating.

#### Extinguishing Media

Preferred extinguishing media are water fog, carbon dioxide, dry chemical, foam, sand.

#### Fire Fighting

When fighting fires involving significant quantities of this product, call the fire brigade.

Wear full protective suit and self-contained breathing apparatus.

Whenever possible, contain fire-fighting water/ contaminated water by diking area with sand or earth. Do not allow it to enter drain or waterways.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

### Spills and Disposal

Contain spill and absorb with sand or proprietary absorbent (vermiculite). Prevent from entering drains, waterways or sewers. Clean up spill immediately. Collect in sealed open-top containers for disposal. Triple rinse containers, and add rinsings to the spray tank, then offer container for recycling / reconditioning, or puncture top, sites and bottom and dispose of in landfill in accordance with local regulations. On-site disposal of concentrate is not acceptable.

## SECTION 7 – HANDLING AND STORAGE

### Handling

When opening the container and preparing the spray, wear cotton overalls buttoned to the neck and wrist, washable hat, elbow length PVC gloves, face shield or goggles. When using the prepared spray, wear cotton overalls buttoned to the neck and wrist, washable hat and elbow length PVC gloves. Make sure there is adequate ventilation and avoid dust formation. If product in eyes, wash out immediately with water. If product on skin, immediately wash area with soap and water. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, face shield or goggles and contaminated clothing.

### Storage

Store in the closed, original container in a dry, cool, well-ventilated area away from children, animals, food, feedstuffs, seed and fertilizers. DO NOT store for prolonged periods in direct sunlight.

## SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Exposure Standards:

No exposure standard has been set for this product.

<u>Source</u>	<u>Material</u>	<u>TWA mg/m<sup>3</sup></u>
Exposure standard has not been established by SWA for any of the significant ingredients in this product.		

### Engineering Control

Handle in well ventilated areas, ensure natural ventilation at working area.

### Protective Equipment

Eyes: Wear eye and face protectors to protect against splashing materials. Make sure emergency eye wash facilities are near to working area.

Clothing: Wear cotton overalls buttoned to the neck and wrist and a washable hat if skin exposure is likely.

Gloves: Wear PVC or rubber gloves.

Respiratory: Respirator is usually not necessarily required.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

<b>Form:</b>	Granules
<b>Colour:</b>	Light brown granules
<b>Odour:</b>	No characteristic odour
<b>pH:</b>	7.0 – 10.0
<b>Vapour Pressure:</b>	$2.4 \times 10^{-6}$ Pa at 25°C (technical)
<b>Solubility</b>	Dispersible in water

## SECTION 10 – STABILITY AND REACTIVITY

### Reactivity

This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf-life properties.

### Conditions to Avoid

Store in the closed original container in a dry, cool, well-ventilated area. Avoid extreme temperature and direct sunlight.

### Incompatibilities

Strong acids, strong bases, strong oxidising agents.

### Fire Decomposition

Decomposition is likely only after heating to dryness, followed by further extreme heating. Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Oxides of nitrogen, hydrogen cyanide, hydrogen fluoride, sulphur oxides. Water. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.

### Polymerisation

This product is unlikely to undergo polymerisation reactions.

## SECTION 11 – TOXICOLOGICAL INFORMATION

### Toxicity data:

#### Acute Toxicity – Oral

LD<sub>50</sub> (rat): >2000 mg/kg

#### Acute Toxicity - Dermal

LD<sub>50</sub> (rat): >2000 mg/kg

#### Acute Toxicity – Inhalation:

LC<sub>50</sub> (rat) (4hr): >5.8 mg/l air

**Skin irritation:** Non-irritant (Rabbit)

**Eye irritation:** Slight eye irritation (Rabbit)

**Sensitization:** Skin sensitizing (Guinea pig)

## Potential Health Effects

### Health Effects

**Inhalation:** May be harmful if inhaled.  
**Skin contact:** May cause skin irritation. It can cause sensitivity to skin.  
**Eye contact:** May cause eye irritation.  
**Ingestion:** Harmful if swallowed.

### Mutagenicity

Data indicates no mutagenic effects for Pyroxasulfone.

### Carcinogenicity

Data indicates no carcinogenic effects for Pyroxasulfone.

There is an increased incidence of tumours in urinary bladder of rats through non-genotoxic mechanism. Not relevant at low doses.

### Other Information

The ADI for Pyroxasulfone is set at 0.02mg/kg/bw/day. The corresponding NOAEL is set at 2.0 mg/kg/bw/day.

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

## SECTION 12 – ECOLOGICAL INFORMATION

Acutely toxic for fish. Acutely toxic for aquatic invertebrates. Very toxic (acute) to aquatic plants.

### Ecotoxicity data

#### Acute Toxicity – Bird

LD<sub>50</sub> bobwhite quail: 2250mg/kg (Value relates to active ingredient pyroxasulfone.)

#### Acute Toxicity – Fish

LC<sub>50</sub> rainbow trout (96 hrs): 2.2 mg/L (Value relates to active ingredient pyroxasulfone.)

LC<sub>50</sub> Bluegill sunfish (96 hrs): 2.8 mg/L (Value relates to active ingredient pyroxasulfone.)

**Acute Toxicity – Crustaceans**

Daphnia LC<sub>50</sub> (48 hrs): 4.4 mg/L (Value relates to active ingredient pyroxasulfone.)

**Acute Toxicity – Other organisms**

MCPA

Bees: LD<sub>50</sub>: >100 µg/bee (Value relates to active ingredient pyroxasulfone.)

**ENVIRONMENTAL FATE**

**Breakdown in soil and groundwater**

Pyroxasulfone is mobile (average K<sub>oc</sub>= 94.75) and persistent has low persistence. Half-life in soil ranges from 142 to 533 days in both terrestrial and aquatic environments. Pyroxasulfone does not present significant concerns for bioaccumulation based on the lipophilicity of the compound.

**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:** UN3077  
**Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains Pyroxasulfone)  
**Class:** Class 9  
**Packaging group:** III  
**Hazchem:** 2Z  
**Storage and Transport:** Considered non dangerous for road and rail transport (in packaging) by the Australian Code for the Transport of Dangerous Goods by Road and Rail. Ref: ADG7; SP No. AU01.

**IMO-IMDG**

**UN Number:** UN3077  
**Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains Pyroxasulfone)  
**Class:** Class 9  
**Packaging group:** III  
**Marine pollutant:** Yes

**SECTION 15 – REGULATORY INFORMATION**

**SUSMP Classification** S6  
**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:**

<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	0439 933 556
		Ask for Murray Goodlich