

MATERIAL SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Product Name: Kenso Agcare Kenpra 750 WG Herbicide
Product Type: Group B Herbicide
Company Name: Kenso Corporation (M) Sdn Bhd
Address: Unit 3C, 59, Oxford Street, Bulimba Queensland 4171
Telephone Number: (07) 3217 9788
Facsimile Number: (07) 3217 9733
Emergency Telephone Number: 000 (Police or Fire Brigade)
13 11 26 (Poisons Information Centre)

Use: For selective post-emergence control of nutgrass in sugarcane, corn/maize and sorghum and for the selective post-emergence control of nutgrass and mullumbimby couch in turf. Also for the control of nutgrass in cotton using shielded sprayers.

SECTION 2 – HAZARDS IDENTIFICATION

Classified as hazardous according to criteria of NOHSC.
Risk Phrases: R22, R36. Harmful if swallowed. Irritating to eyes.
Safety Phrases: S20, S22, S39, S24/25. When using, do not eat or drink. Do not breathe dust. Wear eye/face protection. Avoid contact with skin and eyes.
SUSDP Classification: S5
ADG Classification: None allocated. Not a Dangerous Good under the ADG Code.
UN Number: None allocated.

Emergency Overview

Physical Description & colour: Beige coloured granules
Odour: Scorched vanilla
Major Health Hazards: harmful if swallowed, eye irritant.

Potential Health Effects

Inhalation:

Short Term Exposure: Long term inhalation of high amounts of any nuisance dust may overload lung clearance mechanism. Available data indicates that this product is not harmful. However product may be mildly irritating, although unlikely to cause anything more than mild transient discomfort.

Long Term Exposure: No data for health effects associated with long term inhalation.

Skin Contact:

Short Term Exposure: Available data indicates that this product is not harmful. It should present no hazards in normal use. However product may be mildly irritating, but is unlikely to cause anything more than mild discomfort which should disappear once contact ceases.

Long Term Exposure: No data for health effects associated with long term skin exposure.

Eye Contact:

Short Term Exposure: 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.

Long Term Exposure: No data for health effects associated with long term eye exposure.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS number	Proportion
Halosulfuron-methyl	100784-20-1	77.3%
Other ingredients	secret	To 100%

SECTION 4 – FIRST AID MEASURES

Swallowed:	If swallowed, do not induce vomiting; seek medical advice immediately.
Skin:	Remove contaminated clothing, wash skin with plenty of soap and water. See a doctor if any signs or symptoms described in this document occur. Discard contaminated non-waterproof shoes and boots. Wash contaminated clothing before re-wearing.
Eyes:	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.
Inhaled:	Remove to fresh air until recovered. See a doctor if discomfort or irritation continues.

Advice to Doctor

Treat symptomatically. If vomiting occurs be wary of the onset of pulmonary pneumonitis caused by the solvents.

SECTION 5 – FIRE FIGHTING MEASURES

Fire and Explosion Hazards:	There is no risk of an explosion from this product under normal circumstances. This product, if scattered, may form flammable or explosive dust clouds in air.
Extinguishing Media:	Fire decomposition products from this product may be toxic if inhaled. Preferred extinguishing media are carbon dioxide, dry chemical, foam, water fog.
Fire Fighting:	When fighting fires involving significant quantities of this product, wear a splash suit complete with self contained breathing apparatus. Do not scatter spilled material with high pressure water jets.
Flash point:	Not flammable.
Upper Flammability Limit:	No data.
Lower Flammability Limit:	No data.
Autoignition temperature:	No data.
Flammability Class:	No data.

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

Storage and Transport

Store in the closed, original container in a well-ventilated area away from children, animals, food, feedstuffs, seed and fertilizers.
Considered non hazardous for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits

Exposure limits have not been established for any of the significant ingredients in this product.

Engineering Control

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

Protective Equipment

Poisonous if swallowed. Avoid contact with skin or clothing. Skin contact should be minimized 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:	Water Dispersible Granule
Colour:	Beige coloured granules
Odour:	Scorched vanilla
pH:	5-8
Vapour pressure:	No Data
Vapour density:	No Data
Boiling point/range:	Solvent > 150 °C.
Melting/freezing point:	~175 °C.
Solubility:	Miscible in water
Specific gravity - density:	Not determined.
Flashpoint:	Not determined.
Explosive limits (air):	Not determined.
Ignition temperature:	Not determined.

SECTION 10 – STABILITY AND REACTIVITY

Chemical stability:	Normally stable.
Conditions to avoid:	Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight.
Materials to avoid:	Strong oxidising agents.
Hazardous decomposition products:	Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Nitrogen and its compounds, and under some circumstances, oxides of nitrogen.
Hazardous reactions:	Not known. Does not polymerise.

SECTION 11 – TOXICOLOGICAL INFORMATION

Acute Toxicity - Oral LD50 (rat, M/F) 2825/1947 mg/kg
Acute Toxicity -Dermal LD50 (rabbit) >2000 mg/kg
Acute Toxicity -Inhalation LC50 (rat) (4hr) >5.7 mg/l

Skin contact: Unlikely to have any effects if rinsed immediately. Prolonged contact may cause irritation and redness.

Eye contact: Unlikely to have any effects if rinsed immediately. Prolonged contact may likely to cause severe irritation and damage.

Inhalation/ingestion: Not a likely route of exposure when handling the concentrate. However, care should be taken to avoid the inhalation of excessive amounts of spray mist during field spraying, respiratory irritation may occur.

Reproductive Toxicity: Data indicates no reproductive effects. Data indicates no teratogenic effects.

Mutagenicity: Data indicates no mutagenic effects.
Carcinogenicity: Data indicates no carcinogenic effects.

SECTION 12 – ECOLOGICAL INFORMATION

This product is biodegradable. It will not accumulate in the soil or water or cause long term problems.

Birds: LD₅₀ bobwhite quail: >2250mg/kg

Fish: LC₅₀ bluegill sunfish (*Lepomis macrochirus*): >118mg/L

LC₅₀ rainbow trout (*Oncorhynchus mykiss*): >131mg/L

Algae: EC₅₀ 0.0053mg/L **Bees:** LD₅₀ >100µg/bee

Daphnia: EC₅₀ >107mg/L **Worms:** LD₅₀ (Worms) >1000mg/kg

Rapidly eliminated from rats in urine and faeces.

Soil degradation: - DT₅₀ typically 50 days (moderately persistent)

Persistence/degradation

Extensively metabolised in soil.

Mobility

Not readily leached.

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 Code: This product is not classified as a Dangerous Good. No special transport conditions are necessary unless required by other regulation

SECTION 15 – REGULATORY INFORMATION

AICS: All of the significant ingredients in this formulation are not to be found in the public AICS Database. However this is not a necessary requirement for registered Ag/Vet products. If you have any reason to be concerned about this, we suggest you call us on the number below.

The following ingredient: Halosulfuron-methyl, is mentioned in the SUSDP.

SECTION 16 – OTHER INFORMATION

This MSDS contains only safety-related information. For other data see product literature.

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