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:	Level 1, 98 Commercial Road, Teneriffe QLD 4005
Telephone Number:	(07) 3216 1188
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

Hazard Classification:	Classified as non-hazardous according to criteria of Safe Work Australia. Not classified as a Dangerous Good according to the ADG Code.
GHS Signal Word:	**NONE. Not hazardous.**
SUSMP Classification:	S5
ADG Classification:	Not a dangerous good.
UN Number:	None allocated.

Emergency Overview

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

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	**CAS number**	**Proportion**
Halosulfuron-methyl	100784-20-1	75%
Inert ingredients	secret	to 100%

SECTION 4 – FIRST AID MEASURES

Inhalation:	Remove to fresh air until recovered. See a doctor if discomfort or irritation continues.

Skin contact:	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 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.

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/Explosion Hazards
Dangerous Decomposition or Combustion Products
Thermal decomposition
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.
Fire decomposition products from this product may be toxic if inhaled.
Extinguishing Media
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.

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 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 day's 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
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 ^{o}C.
Melting/Freezing Point:	168~175 ^{o}C.
Solubility:	Dispersible
Specific Gravity:	0.55

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
LD_{50} (rat, M/F) 2825/1947 mg/kg
Acute Toxicity – Dermal
LD_{50} (rabbit) >2000 mg/kg
Acute Toxicity – Inhalation
LC_{50} (rat) (4hr) >5.7 mg/l
Skin Irritation
Unlikely to have any effects if rinsed immediately. Prolonged contact may cause irritation and redness.
Eye Irritation
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.

Potential Health Effects

Health Effects:

Acute:

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.

Ingestion:

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.

SECTION 12 – ECOLOGICAL INFORMATION

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

Acute Toxicity – Fish

LC_{50} bluegill sunfish (*Lepomis macrochirus*): >118mg/L

LC_{50} rainbow trout (*Oncorhynchus mykiss*): >131mg/L

Acute Toxicity – Other Organisms

Birds: LD_{50} bobwhite quail: >2250mg/kg

Algae: EC_{50} 0.0053mg/L

Bees: LD_{50} >100µg/bee

Daphnia: EC_{50} >107mg/L

Worms: LD_{50} (Worms) >1000mg/kg

Rapidly eliminated from rats in urine and faeces.

Soil degradation

DT_{50} 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

Storage and Transport	Not a dangerous good.
UN Number (Sea Transport):	None allocated.
IMO Class/Packing Group:	None allocated.
IMO Marine Pollutant:	None allocated.
IMO Proper Shipping Name:	None allocated.
Hazchem code:	None allocated.
ADG Class:	Not a dangerous good.

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