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SDS Kenso Agcare Texus Selective Herbicide

SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Product Name: Kenso Agcare Texus Selective Herbicide

Product Type: Group F + I Herbicide

Company Name: Kenso Corporation (M) Sdn Bhd

Address: Level 1, 98 Commercial Road, Teneriffe, 4005 QLD.

Telephone Number: (07) 3216 1188

Emergency Telephone Number: 000 (Police or Fire Brigade)

13 11 26 (Poisons Information Centre)

Use: For the control of certain broadleaf weeds in winter

cereals and clover.

SECTION 2 – HAZARDS IDENTIFICATION

Statement of Hazardous Nature Classified as hazardous according to criteria of Safe Work Australia. Not classified as a Dangerous Good according to the ADG Code.



Classification of the Hazardous Chemical:

Flammable liquid – Category 4 Acute toxicity (Oral) – Category 4 Acute toxicity (Dermal) – Category 4

Skin corrosion/ irritation – Category 2

Serious eye damage/eye irritation - Category 2/2A

Acute toxicity (Inhalation) - Category 4

Specific target organ toxicity (Single exposure) – Category 3 Hazardous to the aquatic environment, long term – Chronic 1

GHS Signal Word: W

WARNING

Hazard statements: H227: Combustible liquid.

H302: Harmful if swallowed.

H312: Harmful in contact with skin.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H332: Harmful if inhaled.

H335: May cause respiratory irritation.

H410: Very toxic to aquatic life with long lasting effects.

Prevention: P210: Keep away from heat/sparks/open flames/hot surfaces and

other ignition sources. No smoking.

P261: Avoid breathing dust/fume/gas/mist/vapours/spray. P264: Wash contacted area thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P271: Use only outdoors or in a well-ventilated area.

P273: Avoid release to the environment.



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P280: Wear protective gloves/protective clothing/eye protection/face

protection.

Response: P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/

physician if you feel unwell.

P302+P352: IF ON SKIN: Wash with plenty of soap and water. P304+P340: IF INHALED: Remove person to fresh air and keep

comfortable for breathing.

P305+P351+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.

P321: Specific treatment (see FIRST AID on this label).

P330: Rinse mouth.

P332+P313: If skin irritation occurs: Get medical advice/attention. P337+P313: If eye irritation persists: Get medical advice/attention. P362+P364: Take off contaminated clothing and wash before reuse. P370+P378: In case of fire: Use water fog, foam, dry agent (carbon

dioxide, dry chemical powder) to extinguish.

P391: Collect spillage.

Storage: P403+P233: Store in a well-ventilated place. Keep container tightly

closed.

P405: Store locked up.

Disposal: P501: Dispose of contents/container as specified on the registered

abel

SUSMP Classification: S5 ADG Classification: N/A UN Number: N/A

Emergency Overview

Physical Description & colour: Dark brown liquid.

Odour: Strong ester odour.

Major Health Hazards: Harmful if swallowed. Will damage the eyes. Will irritate the skin.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS number	Proportion
MCPA (present as the 2-ethyhexyl ester)	29450-45-1	25%
Diflufenican	83164-33-4	2.5%
Liquid Hydrocarbon	64742-94-5	32.9%
N-Methyl-2-pyrrolidone	90438-79-2	15%
Inert ingredients	secret	to 100%

SECTION 4 – FIRST AID MEASURES

Inhalation: Remove to fresh air, keep warm and at rest. Give artificial respiration or oxygen if breathing is shallow or stopped. Get medical attention immediately.



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Skin	Remove contaminated clothing and wash affected areas or skin with soap and water.
contact:	Seek medical advice if irritation develops.
Eye	Hold the eyes and flush immediately with plenty of water. Seek medical advice if
contact:	irritation develops.
Ingestion:	If swallowed, 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). Make every effort to prevent vomit from entering the lungs by careful placement of the patient. Give a glass of water.
	Note: Where medical attention is not immediately available or where patient is more than 15 minutes from a hospital or unless instructed otherwise: induce vomiting with fingers down back of the throat, only if conscious. Lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.

Advice to Doctor:

Treatment is symptomatic.

If vomiting occurs, solvent present may cause pulmonary pneumonitis.

SECTION 5 - FIRE FIGHTING MEASURES

Specific Hazard

Product is a combustible liquid, (C1)

Fire/Explosion Hazard

Dangerous Decomposition or Combustion Products

Thermal Decomposition

There is no risk of an explosion from this product under normal circumstances if it is involved in a fire. This product is likely to decompose only after heating to dryness, followed by further strong heating. Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.

Dangerous decomposition or Combustion Products

Hydrogen bromide, hydrogen cyanide, hydrogen fluoride, and oxides of nitrogen and carbon may be released in a fire.

Hazardous decomposition products

None known

Hazardous reactions

None known

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



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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 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 standards

The NOHSC exposure standards for N-methyl-2-pyrrolidone are:

TWA 25 ppm(103 mg/m³); STEL 75 ppm (309 mg/m³); Skin notation

Exposure standard – Time Weighted Average (TWA) means the average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day working week.

Exposure standard – Short Term Exposure limit (STEL) means a 15 minute TWA exposure which should not be exceeded at any time during a working day even if the eight-hour TWA average is within the TWA exposure standard. Exposures at the STEL should not be longer than 15 minutes and should not be repeated more than four times per day. There should be at least 60 minutes between successive exposures at the STEL.

Skin notation – Absorption through the skin may be a significant source of exposure.

Engineering controls

Control process conditions to avoid contact. Use local exhaust ventilation during manufacturing operations. Use in a well-ventilated area only.

Personal Protective Equipment

- Face-shield
- Cotton overalls buttoned to the neck and wrist and a washable hat
- Elbow-length PVC gloves

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Form: Liquid

Colour:Dark brown liquidOdour:Strong ester odour

Boiling Point (°C): 176 - 200° C (hydrocarbon solvent)



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Vapour Pressure: Not available **Specific Gravity:** 1.00 – 1.01

Flashpoint: > 66° C – closed cup, which is the flash point of the

hydrocarbon solvent

Flammability: Combustible Liquid, (C1)

Solubility: Emulsify in water

SECTION 10 – STABILITY AND REACTIVITY

Chemical stability

This material is stable under normal use and storage conditions.

Conditions to avoid

Avoid sources of ignition and extremes of temperature.

Incompatible Materials

Incompatible with strong acids and bases, oxidizing and reducing agents.

Hazardous decomposition products

Hydrogen fluoride, hydrogen chloride, and oxides of carbon and nitrogen may be generated under extreme heat conditions or in a fire.

Hazardous reactions

None

SECTION 11 – TOXICOLOGICAL INFORMATION

Acute Toxicity - Oral

LD₅₀ rat: 1580 mg/kg
Acute Toxicity – Dermal

LD₅₀ rat: > 2040 mg/kg **Acute Toxicity – Inhalation**

Inhalation LC_{50} rat: > 5.11 mg/L) (4 h) (MCPA-2-ethyl hexyl ester)

Inhalation LC_{50} rat: > 5.12 mg/L) (4 h) (diflufenican)

Skin Irritation

Slightly to moderately irritating (rabbit) (similar product)

Eye Irritation

Slightly irritating (rabbit) (similar product)

Sensitisation

Sensitising (guinea pig) (similar product)

Potential Health Effects

Acute:

Inhalation: Irritation to respiratory system

Skin contact: Will irritate the skin. Harmful in contact with skin, as this product can be

absorbed through the skin. Repeated exposure to the solvent in this product

may cause skin dryness or cracking.

Eye contact: Cause irritation

Ingestion: Harmful



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Chronic:

In long term toxicity studies with MCPA (acid) at high doses, the target organs were the liver, kidneys and skin.

Diflufenican is not mutagenic, teratogenic or oncogenic. In animal studies, N-methyl-2-pyrrolidone showed a developmental toxic effect in high doses which were maternally toxic.

SECTION 12 – ECOLOGICAL INFORMATION

Dangerous to fish. Low hazard to bees and earthworms. Sprayed weeds may become more palatable to stock and a higher intake of some weeds may result in stock poisoning and death from causes such as nitrate poisoning.

DO NOT contaminate streams, rivers or waterways with the chemical or used containers.

Ecotoxicity

MCPA-2-ethylhexyl:

Fish toxicity: LC₅₀ (96 h) rainbow trout 50-560 mg/L, bluegill sunfish > 150 mg/L

Bird toxicity: LC₅₀ (96 h) bobwhite quail 377 mg/kg

Daphnia toxicity: LC_{50} (48 h) > 190 mg/L

Algae toxicity: EC₅₀ Selenastrum capricornutum > 392 mg/L

Diflufenican:

Fish toxicity: LC_{50} (96 h) rainbow trout > 109 μ g/L Bird toxicity: LD₅₀ bobwhite quail > 2150 mg/kg LD₅₀ mallard duck > 4000 mg/kg

Daphnia toxicity: LC₅₀ (48 h) Daphnia magna > 240 μg/L

Algae toxicity: EC_{50} (96 h) > 10 mg/L

Environmental fate, persistence and degradability, mobility

MCPA-ethylhexyl: Hydrolyses rapidly in natural waters and soil water mixtures. DT₅₀ in soil < 7 days after initial lag phase (acid form).

Diflufenican: Not readily biodegradable. Bioconcentration factor (BCF): 1.596. DT50 varies from

85.6 – 282 days depending on soil type and water content.

N-methyl-2-pyrrolidone is readily biodegradable.

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: 3082

ENVIRONMENTALLY HAZARDOUS SUBSTANCE. Proper shipping name:

LIQUID, N.O.S. (contains MCPA 2-ETHYL HEXYL ESTER

and DIFLUFENICAN)



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Class: 9
Packaging group: III

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: 3082

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

LIQUID, N.O.S. (contains MCPA 2-ETHYL HEXYL ESTER

and DIFLUFENICAN)

Class: 9
Packaging group: III
Marine pollutant: Yes

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 0428 776 327

Ask for Russell Clark