

MATERIAL SAFETY DATA SHEET

Statement of Hazardous Nature:

Hazardous according to criteria of NOHSC.

Company: Kenso Corporation (M) Sdn Bhd
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Emergency Telephone Number: 000 (Police or Fire Brigade)
131126 (Poisons Information Centre)

IDENTIFICATION

Product Name: Kenso Agcare Cletho 240 EC Selective Herbicide
Other names: None
UN Number: N/A
Hazchem Code: Not regulated
Dangerous Goods Class: Not regulated
Poison Schedule: Not regulated
Manufacturer's Product Code: None
Use: For the control of certain grass weeds in beetroot, cabbage, canola, celery, chickpeas, cotton, faba beans, field peas, forestry, lentils, lettuce, lupins, mungbeans, non-bearing fruit tree, onions, ornamentals, peanuts, potatoes and soybeans.

Physical Description/Properties

Form: Liquid
Colour: Dark liquid
Odour: Aromatic
pH: 3.6 in 5% solution
Melting point (°C): N/A
Boiling point (°C): N/A
Specific Gravity: 0.96
Vapour Pressure: N/A
Flammability Limits: N/A
Solubility: Soluble in hydrocarbon solvents. Emulsifiable in water
Viscosity: 2.05 cps @ 25°C

Ingredients

Chemical entity	CAS number	Proportion
Clethodim	99129-21-2	25%
Inert ingredient	secret	12%
Solvent 150	64742-94-5	To 100%

HEALTH HAZARD INFORMATION

Acute:

- Ingestion:** May cause gastrointestinal irritation, nausea, vomiting and diarrhoea if ingestion of this product happened. It can directly enter the lungs if swallowed (aspiration) or when vomiting due to the low viscosity of this product.
- Skin:** This product may cause moderate skin irritation. The degree of injury will depend on the quantity and time to contact and the speed and thoroughness of the first aid treatment. The expected adverse health effects may include redness and swelling.
- Inhaled:** Exposure to very high concentrations may result in respiratory irritation. Signs and symptoms may include nasal discharge, sore throat, coughing and difficulty in breathing.
- Eye:** This product may cause prolonged and/or substantial irritation following eye contact. The degree of the injury will depend on the amount and duration of the contact and the speed and thoroughness of the first aid treatment. The expected adverse effects resulting from an exposure may include redness, swelling and pain that could last for an extended period of time.

Chronic:

Clethodim technical was not carcinogenic to animals. Increased liver weights and anaemia have been observed in animals exposed to Clethodim technical.

First Aid

Ingestion:	If swallowed, drink 1 or 2 glasses of water and telephone for medical advice. DO NOT induce vomiting unless directed to do so by medical personnel. If medical advice cannot be obtained, then take person and product container to the nearest emergency treatment centre or hospital.
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:	If in contact with eyes, flush eyes immediately with plenty of fresh water for at least 15 minutes while holding the eyelids open. However, if irritation persists, see a doctor.
Inhaled:	Remove to fresh air if respiratory discomfort or irritation occurs. See a doctor if discomfort or irritation continues.

Advice to Doctor

This material contains light hydrocarbon liquid and an aspiration hazard may exist.

PRECAUTIONS FOR USE

Eye Protection

Safety goggles should be worn.

Respiratory/ Ventilation Requirements

This material may be an inhalation hazard and, unless ventilation is adequate, the use of approved respiratory protection is recommended. Use this material only in well-ventilated areas.

Skin Protection

Avoid contact with skin or clothing. Skin contact should be minimized by wearing protective clothing including gloves.

SAFE HANDLING INFORMATION

DO NOT USE OR STORE near flame, sparks or hot surfaces. USE ONLY IN WELL VENTILATED AREA. Keep container closed. DO NOT weld, heat or drill container. Replace cap or bung. Emptied container still contains hazardous or explosive vapour or liquid. Determine concentrations and take appropriate measures for personal protection before entry into confined spaces that may have contained hazardous material. Do not store or transport near food or feedstuffs. Use strictly in accordance with label precautionary statements and directions.

Spills and Disposal

For Spills on Land

Avoid runoff into storm sewers and ditches that lead to waterways. Contain spilled liquids with dry sorbents. Clean up spill immediately. Absorb spill with inert materials (i.e. dry sand or earth), then place in a chemical waste container. Wash area with soap and water. Pick up wash liquid with additional absorbent and place in a disposable container.

For Spills on Water

This material forms an emulsion in water. Stop or reduce contamination of any water. Isolate contaminated water. Remove contaminated water for removal or treatment.

Disposal

Check governmental regulations and local authorities for approved disposal of this material. Dispose in accordance with applicable laws and regulations.

Special Fire Fighting Procedures

Liquid evaporates and forms a vapour (fumes) that can catch fire and burn with explosive violence. Invisible vapour spreads easily and can be set on fire by many sources such as pilot lights, welding equipment, and electrical motors and switches. Fire hazard is greater as liquid temperature rises above 29°C (85°F). Products of combustion from fires involving this material may be toxic. Avoid breathing smoke and mists. Avoid personnel and equipment contact with fallout and runoff. Minimize the amount of water used for fire fighting. Do not enter any enclosed area without full protective equipment, including self-contained breathing equipment. Contain and isolate runoff and debris for proper disposal. Decontaminate personal protective equipment and fire fighting equipment before reuse.

OTHER INFORMATION

Avian Toxicity: The acute toxicity of Clethodim Technical to birds is very low.

Bobwhite quail oral LD₅₀ > 2g/kg

Bobwhite quail dietary LC₅₀ > 6000ppm

Mallard duck dietary LC₅₀ > 6000ppm

No reproductive effects were observed in mallard ducks exposed to 1000 ppm of Clethodim Technical. In Bobwhite quail, a slight decrease in viability of embryos of eggs from females exposed to 1000 ppm was observed. A NOEL was established at 300 ppm of this study.

Aquatic Organism Toxicity: Clethodim Technical is only slightly toxic to freshwater fish and practically non-toxic to Daphnia.

Rainbow Trout 96 hour LC₅₀ = 67mg/L

Bluegill Sunfish 96 hour LC₅₀ = 120mg/L

Daphnia magna 48 hour LC₅₀ > 120mg/L

Bee Toxicity: Technical was found to be non-toxic to adult worker bees at the highest dose tested, 100 micrograms/bee

CONTACT POINT:

Police and Fire Brigade:

Dial 000

National Poisons Information Centre:

Dial 13 1126 (from anywhere in Australia)

For 24 hour emergency response:

Dial 0439 933 556

Ask for Murray Goodlich