

MATERIAL SAFETY DATA SHEET

Statement of Hazardous Nature:

Not classified as hazardous according to criteria of NOHSC.

Company: Kenso Corporation (M) Sdn Bhd
Address: Kirkland Corner H/177, Old Cleveland Rd.
Coorparoo Queensland 4151
Telephone Number: (07) 3847 4288
Facsimile Number: (07) 3847 4188
Emergency Telephone Number: 000 (Police or Fire Brigade)
131126 (Poisons Information Centre)

IDENTIFICATION

Product Name: Kenso Agcare Ken-Trel 300 Herbicide
Other names: None
UN Number: None allocated
Hazchem Code: None allocated
Dangerous Goods Class: None allocated
Poison Schedule: S5
Manufacturer's Product Code: None
Use: For control of a wide range of broadleaf weeds in wheat, barley, oats, triticale, canola, pastures, fallow land, forests and industrial situations as specified in the directions for use.

Physical Description/Properties

Form: Liquid
Colour: Clear to slightly hazy blue liquid
Boiling point (°C): ~100 °C at 100kPa
Specific Gravity: 1.107
Vapour Pressure: No data for the tri-isopropanol-amine salt
133mPa at 24 °C (Clopyralid acid)
Flash points: Does not burn
Flammability: Non combustible material
Solubility in water: Completely soluble

Ingredients

Chemical entity	CAS number	Proportion
Clopyralid	1702-17-6	28%
Inert ingredients	secret	33%
Water		To 100%

HEALTH HAZARD INFORMATION

Acute:

- Swallowed:** This product is unlikely to cause irritation if a small amount is ingested.
- Skin:** Not a skin irritant and not harmful by normal exposure.
- Inhaled:** Available data indicates that this product is not harmful, and little or no discomfort / irritation are likely.
- Eye:** The concentrate may cause some irritation of the eye.
- Chronic:** Data indicates no reproductive, carcinogenic or mutagenic effects.

First Aid

Ingestion:	If poisoning occurs, contact a doctor or Poisons Information Centre on 13 11 26.
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.
Inhaled:	Remove affected person to fresh air until recovered.

Advice to Doctor

Treat symptomatically.

PRECAUTIONS FOR USE

Personal Protection

Avoid contact with eyes and skin. Wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves, a face shield or goggles when opening the container, preparing the spray and using the prepared spray. Wash hands after use. Wash glove, face shield or goggles and contaminated clothing before reuse.

Exposure Standards

A time weighed average (TWA) concentration for an 8 hour day, and 5 day week has not been established by The National Occupational Health & Safety Commission for any of the major ingredients in this product. There is a blanket limit of 10mg/m³ for dusts or mists when limits have not otherwise been established. The nature of this product makes it unlikely that this level will be approached in normal use. The ADI (Acceptable Daily Intake) for Clopyralid is set at 0.5mg/kg/day. The corresponding NOEL (No-observable-effect-level) is set at 50mg/kg/day. Values taken from Australian ADI List, January, 2001.

Engineering Control

In industrial situations, concentration values below the TWA value should be maintained. Values may be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high; you are advised to modify the process or environment to reduce the problem.

SAFE HANDLING INFORMATION

Storage & Transport

This product is an S5 Poison. Observe all relevant regulations regarding sale, transport and storage of this class of product. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight. Do not store near food, feedstuffs, fertilisers or seed.

Spills

Small spill: Apply absorbent material such as earth, sand or clay granules or cat litter to the spill. Sweep up material for disposal when absorption is complete and contain in a refuse vessel for Disposal (See Disposal). If necessary, wash the spill area with an alkali detergent and water and absorb as above the wash liquid for disposal.

Large spill: Place leaking containers into salvage drums. Apply absorbent material such as earth, sand or cat litter to the spill area. Form a barricade around spill and in front of drains or waterways in spill vicinity, using earth or other available material. Sweep up material and contain in a refuse vessel for disposal (see Disposal).

Disposal

Triple rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. If recycling container, replace cap and return clean containers to recycler or designated collection point. If not recycling break, crush, or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

Special Fire Fighting Procedures

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.

Unusual Fire & Explosion Hazards

Fire decomposition products from this product may form toxic and corrosive mixtures in confined spaces. Likely to decompose only after heating to dryness followed by further strong heating.

OTHER INFORMATION

Ecotoxicity Data

Clopyralid has low toxicity to birds, honey bees, fish and aquatic organisms. Clopyralid does not bioaccumulate in animal systems.

The oral LD₅₀ (rat) is above 5000mg/kg (low toxicity)

The acute dermal LD₅₀ (rabbit) is above 2000mg/kg (low toxicity)

The acute inhalation toxicity is low. Clopyralid may irritate the eyes (based on studies conducted with the active ingredient, Clopyralid Technical).

Rats and mice administered the active ingredient, Clopyralid, in long-term carcinogenicity studies showed no increase in tumours when compared to the untreated group. Studies in rats and rabbits indicated that Clopyralid does not cause birth defects or interfere with reproduction. Clopyralid does not cause genetic change and does not accumulate in the body. The ingredients are not listed as carcinogenic in Worksafe's document "Exposure Standards for Atmospheric Contaminants in the Occupational Environment" (May 1995).

Environmental Fate

In soil, Clopyralid will be degraded by microbial action within twelve months, with the most rapid breakdown occurring in warm, moist, aerated soils with high organic content. Clopyralid has a half-life between twelve and seventy days depending on soil type and climatic conditions. Minimal leaching of Clopyralid occurs and residues typically remain in the top fifteen centimetres of the soil profile. Clopyralid is not broken down in water by sunlight or hydrolysis.

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