

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 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 750 SG Herbicide
Other names: None
UN Number: Not allocated
Hazchem Code: Not allocated
Dangerous Goods Class: None
Poison Schedule: S5
Manufacturer's Product Code: None
Use: For the control of a wide range of broadleaf weeds in wheat, barley, oats, triticale, canola, pastures and fallow land as specified in the Direction For Use.

Physical Description/Properties

Form: Granules
Colour: White
Odour: None
Melting point (°C): Not applicable
Boiling point (°C): Not applicable
Bulk density: 0.72 g/mL (loose)
0.79g/mL (compacted)
Vapour Pressure: 133 mPa at 24°C (clopyralid acid)
Flashpoint: Does not ignite before melting, with decomposition, at 280-290°C
Explosive Properties: Not explosive
Oxidising Properties: Non-oxidising

Ingredients

Chemical entity	CAS number	Proportion
Clopyralid	1702-17-6	75%
Other non hazardous ingredients		To 100%

HEALTH HAZARD INFORMATION

Acute:

Swallowed: This product may be irritating to mucous membranes but is unlikely to cause anything more than transient discomfort.

Eye: Exposure via eyes will cause mild irritation to eyes.

Skin: This product is not hazardous in normal use. However product is believed to be mildly irritating, but is unlikely to cause anything more than mild transient discomfort.

Inhaled: Exposure via this route is unlikely due to the granular formulation.

Chronic Effects:

Possible chronic health effects from exposure to Ken-Trel 750 SG Herbicide are based on the active ingredient. Rats and mice administered the active ingredient, clopyralid, in long-term carcinogenicity studies showed no increase in tumors when compared to the untreated group. Studies in rats and this formulation are not listed as carcinogenic in Worksafe's document "Exposure Standards for Atmospheric Contaminants in the Occupational Environment" (May 1995).

First Aid

Swallowed:	If swallowed, wash mouth with plenty of water. If symptoms develop, or if in doubt contact the Poisons Information Centre or a doctor immediately.
Skin:	If on skin, remove contaminated clothing, wash skin thoroughly with soap and water.
Eyes:	If in eyes, hold eyes open and flood with water for at least 15 minutes and see a doctor.
Inhaled:	If inhalation has occurred, remove from contaminated area to fresh air.

Advice to Doctor:

Treat symptomatically.

PRECAUTIONS FOR USE

Exposure Standards

A time weighted 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 10 mg/cm³ 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 0.5 mg/kg/day. The corresponding NOEL (No-observable-effect-level) is set at 50 mg/kg/day. Values taken from the 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.

Personal Protection

Will irritate the eyes. Avoid contact with eyes. Wash hands after use. When using the prepared spray, wear elbow length PVC gloves and face shield or goggles. After each day's use, wash gloves and face shield or goggles.

SAFE HANDLING INFORMATION

Storage and Transport

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

Spills and Disposal

Wear protective equipment (see Personal Protection). Clear area of all unprotected personnel. Prevent entry of chemical or used/damaged containers into drains, streams or waterways.

Small Spill: Sweep up material and contain in a refuse vessel for disposal (see Disposal).

Large Spill: Place leaking containers into salvage drums. Sweep up material and contain in a refuse vessel for disposal (see Disposal). Contact Emergency Services on 000 immediately.

Disposal

Contaminated material must be disposed of in accordance with all State and/or Local regulations. Shred and bury empty packaging in a local authority landfill. If no landfill is available, bury the packaging below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty packaging and product should not be burnt.

Fire/Explosion Hazards

There is no risk of an explosion from this product under normal circumstances if it is involved in a fire.

Flashpoint: Does not burn.

Flammability limits: Not applicable.

Special Fire Fighting procedures: When fighting fires involving significant quantities of this product, wear safety boots, non-flammable overalls, gloves, hat, goggles and self contained breathing apparatus. All skin areas should be covered.

Unusual Fire & Explosion Hazards: Likely to decompose only after heating to dryness followed by further strong heating.

Stability: This product is unlikely to spontaneously decompose.

Polymerisation: This product is unlikely to spontaneously polymerise.

Decomposition Products: The original material in addition to unknown potentially toxic and/or irritating compounds.

Materials to avoid: No particular incompatibilities.

OTHER INFORMATION

Ecotoxicity Data:

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

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 11 26 (from anywhere in Australia)
For 24 hour emergency response:	Dial	0439 933 556
		Ask for Murray Goodlich