

SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Product Name:	Kenso Agcare Ken-Trel 750 SG Herbicide
Product Type:	Group 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 a wide range of broadleaf weeds in wheat, barley, oats, triticale, canola, pastures and fallow land as specified in the Direction for Use.

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.
Classification of the Hazardous Chemical:	NONE. Not hazardous.
GHS Signal Word:	NONE. Not hazardous.
SUSMP Classification:	S5
ADG Classification:	Not a dangerous good.
UN Number:	None allocated.

Emergency Overview

Physical Description & colour: White granules.

Odour: No odour.

Major Health Hazards: No significant risk factors have been found for this product.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS number	Proportion
Clopyralid Potassium salt	58509-83-4	90%
Inert ingredients	secret	to 100%

SECTION 4 – FIRST AID MEASURES

Inhalation:	If inhalation has occurred, remove from contaminated area to fresh air.
Skin contact:	If on skin, remove contaminated clothing, wash skin thoroughly with soap and water.
Eye contact:	If in eyes, hold eyes open and flood with water for at least 15 minutes and see a doctor.

Ingestion:	If swallowed, wash mouth with plenty of water. If symptoms develop, or if in doubt contact the Poisons Information Centre or a doctor immediately.
-------------------	--

Advice to Doctor:

Treat symptomatically.

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 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.

Extinguishing Media

Not Combustible. Use extinguishing media suited to burning materials. Water fog or fine spray is the preferred medium for large fires. Ensure that no spillage enters drains or water courses.

Fire Fighting

If a significant quantity of this product is involved in a fire, call the fire brigade.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

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.

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 days 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:

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.

Engineering Controls

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.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Form:	Granules
Colour:	White
Odour:	No odour
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

SECTION 10 – STABILITY AND REACTIVITY

Reactivity

This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf-life properties.

Conditions to Avoid

Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight.

Incompatibilities

Strong acids, strong bases, strong oxidising agents.

Fire Decomposition

This product is likely to decompose only after heating to dryness, followed by further strong heating. Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas in reducing atmospheres. Water. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.

Polymerisation

This product will not undergo polymerisation reactions.

SECTION 11 – TOXICOLOGICAL INFORMATION

Toxicity data (on clopyralid)

Acute Toxicity – Oral

LD₅₀ (rat) 3738 (male); 2675 (female) mg/kg

Acute Toxicity - Dermal

LD₅₀ (rat) = >2000mg/kg

Potential Health Effects

Acute:

- Inhalation:** Exposure via this route is unlikely due to the granular formulation.
- Skin contact:** 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.
- Eye contact:** Exposure via eyes will cause mild irritation to eyes.
- Ingestion:** This product may be irritating to mucous membranes but is unlikely to cause anything more than transient discomfort.

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 tumours 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).

Systemic (other target organ) effects

For a similar material, clopyralid acid, in animals, effects have been reported on the following organs: heart, kidney, and liver.

Cancer information

A similar material, clopyralid acid, did not cause cancer in laboratory animals.

Teratology (birth defects)

A similar material, clopyralid acid, caused birth defects in test animals, but only at greatly exaggerated doses that were severely toxic to the mothers. No birth defects were observed in

animals given clopyralid at doses several times greater than those expected during normal exposure.

Reproductive Toxicity

For a similar material clopyralid acid, in laboratory animal studies, effects on reproduction have been seen only at doses that produced significant toxicity to the parent.

Mutagenicity

For a similar material, clopyralid acid, in-vitro and animal genetic toxicity studies were negative.

Other information

The ADI for Clopyralid is set at 0.5mg/kg/day. The corresponding NOAEL is set at 50mg/kg/day.
*ADI= Acceptable Daily Intake; NOAEL: No Observable Adverse Effect Level. Data adopted from Australia ADI List, December 2022.

SECTION 12 – ECOLOGICAL INFORMATION

Toxic to aquatic organisms, may cause long-term adverse effects to the aquatic environment. This product is not biodegradable; it may accumulate in the soil or water and cause long term problems.

Acute Toxicity – Bird

LD₅₀ mallard: 1465mg/kg

LD₅₀ bobwhite quail: >2000mg/kg

Acute Toxicity – Fish

LC₅₀ rainbow trout: 103.5mg/L

LC₅₀ bluegill sunfish: 125mg/L

Acute Toxicity – Other organisms

Bees: LD₅₀ non toxic

Worms: LD₅₀ (Worms) >1000mg/kg

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.

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:	None allocated
Proper shipping name:	None allocated
Class:	None allocated
Packaging group:	None allocated
Hazchem:	None allocated

IMO-IMDG

UN Number:	None allocated
Proper shipping name:	None allocated
Class:	None allocated
Packaging group:	None allocated
Marine pollutant:	None allocated

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