

SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Product Name: Kenso Agcare Ken-Trel 300 Herbicide
Product Type: Group 4 Herbicide
Company Name: Kenso Corporation (M) Sdn Bhd
Address: Level 1, 98 Commercial Road, Teneriffe QLD 4005
Telephone Number: (07) 3216 1188
Emergency Telephone Number: 000 (Police or Fire Brigade)
13 11 26 (Poisons Information Centre)
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.

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 dangerous good.

UN Number: None allocated.

Emergency Overview

Physical Description & colour: Clear to slightly hazy blue liquid.

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 Triisopropanolamine salt	57754-85-5	60%
Inert ingredients	secret	< 30%
Water	7732-18-5	to 100%

SECTION 4 – FIRST AID MEASURES

Inhalation:	Remove affected person to fresh air until recovered.
Skin contact:	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.
Eye contact:	Flush eyes immediately with plenty of fresh water for at least 15 minutes while holding the eyelids open.
Ingestion:	If poisoning occurs, contact a doctor or Poisons Information Centre on 13 11 26.

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

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.

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:

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 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, March 2021.

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

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.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Colour:	Clear to slight hazy blue liquid
Odour:	No odour
Boiling Point (°C):	~ 100 °C at 100 kPa
Vapour Pressure:	No data for the tri-isopropanol-amine salt 133mPa at 24 °C (Clopyralid acid)
Flashpoint:	Non flammable
Specific Gravity:	1.107
Solubility:	Soluble in water

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

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.

Potential Health Effects

Acute:

Ingestion:	The product is unlikely to cause irritation if a small amount is ingested.
Eye contact:	The concentrate may cause some irritation of the eye.
Skin contact:	Not a skin irritant and not harmful by normal exposure.
Inhalation:	Available data indicates that this product is not harmful, and little or not discomfort / irritation are likely.

Chronic:

Data indicates no reproductive, carcinogenic or mutagenic effects.

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, June 2026.

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
Storage and Transport:	Not a dangerous good

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	1800 951 288 03 9573 3188