

SECTION 1 – IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Product Name	Riverwolf 375 SL Herbicide
Company Name	Kenso Corporation (M) Sdn Bhd
Address	2 Bond Crescent, Forrest Hill, Auckland 0620 New Zealand
Telephone	0800 536 766
Hazardous Substances	
Emergency Telephone	0800 CHEMCALL (0800 243 622) (24 hours)
National Poisons Centre Use	0800 POISON (0800 764 766) (24 hours) For the control of certain broadleaf weeds in radiata pine plantations and waste areas. DO NOT USE ON PASTURE, TURF OR CROPLAND AREAS.

SECTION 2 – HAZARDS IDENTIFICATION

Hazard Pictograms	
GHS Signal Word	WARNING
Hazard Classification	Eye irritation Category 2, Hazardous to soil organisms, Hazardous to terrestrial vertebrates, Hazardous to the aquatic environment chronic Category 3.
Hazard Statement	H319: Causes serious eye irritation. H412: Harmful to aquatic life with long lasting effects.
Prevention	P264: Wash contacted areas thoroughly after handling. P273: Avoid release to the environment.
Response	P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313: If eye irritation persists: Get medical advice/attention.
Disposal	P501: Dispose of contents/container as specified on the registered label.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS No	Proportion
Clopyralid (as monoethanolamine salt)	57754-85-6	22.5% w/v
Picloram (as monoethanolamine salt)	1918-02-1	15.0% w/v
Inert ingredients	secret	To 100% w/v

SECTION 4 – FIRST AID MEASURES

Ingestion	If swallowed, DO NOT induce vomiting. Seek immediate medical advice or contact Poisons Information Centre (Ph 0800 POISON – 0800 764 766)
Eye	Immediately irrigate with copious quantity of water for at least 15 minutes. Remove any contact lenses and eyelids to be held open.
Skin	Remove contaminated clothing. Wash affected areas or skin thoroughly with soap and water. Seek medical advice if irritation develops.
Inhalation	Remove to fresh air until recovered. If symptoms persist, seek immediate medical advice.
Advice to Doctor	Treat symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

Fire/Explosion Hazard	Not a fire or explosion hazard.
HAZCHEM Code	Not applicable.
IER Guide No	Not applicable.
Extinguishing Media	Extinguish fire with foam, dry powder, carbon dioxide or water spray.
Fire Fighting Instructions	Evacuate personnel to a safe area. Always wear positive-pressure self-contained breathing apparatus and full protective clothing. Do not allow contaminated water from fire-fighting to enter water supplies or drainage systems.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions	For appropriate personal protective equipment (PPE), refer to section 8.
Spillage	Contain spill and absorb with non-organic absorbent materials such as sand, zeolite clay or proprietary absorbent (vermiculite). Prevent from entering drains, waterways or sewers. Collect contaminated absorbents in sealed open top containers for disposal. Wash area with detergent and water and absorb washings with further inert material. Dispose of recovered material through a designated hazardous substances disposal facility or contact the local regional/district council for disposal information.
Environmental Precautions	Concentrate, solutions and washings must be prevented from entering surface water drains, storm water drains or waterways.

SECTION 7 – HANDLING AND STORAGE

Storage	Keep out of reach of children. Store under lock and key, in original container, tightly closed, away from human and animal foodstuffs, medicines and remedies, seeds and fertilisers. Segregate from incompatible hazardous substances/dangerous goods (Classes 1, 4 & 5). Store in a cool, dry, well-ventilated place and protect from sunlight.
Handling	Avoid contact with skin and eyes and inhalation of concentrate or spray mist. When using, do not eat, drink or smoke. Wash face and hands before eating, drinking or smoking.
Handler Competence	Persons responsible for the storage, handling, mixing, applying or disposing of this product must either be a Certified Handler, or be trained, experienced or supervised in accordance with the requirements of the Health and Safety at Work (Hazardous Substances) Regulations 2017 part 4.5 & 4.6 and the Hazardous Substances (Hazardous Property Controls) Notice 2017 Part 4 Subpart C.
Additional Requirements	All aspects of storage, handling, use, disposal and record keeping must be in accordance with NZS 8409:2021 'Management of Agrichemicals', and relevant local and regional council plans.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering Controls	Handle in well-ventilated areas. Product is used outdoors. Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated. The extent of these protection measures depends on the actual risks in use. If airborne mists or vapours are generated, use respiratory protection to a minimum of Organic Vapour cartridge type and/or local exhaust ventilation controls. Assess exposure and use any additional measures to keep airborne levels below any relevant exposure limit. Follow precaution statements on the label and the use and safety directions in Code of Practice for the Management of Agrichemical NZS8409.
Personal Protection	Use only protective equipment bearing the mark of the Standards Association of Australia/ New Zealand. In case of exposure, when mixing, applying or when likely to have any exposure to concentrate, mixes or mists/vapours suitable chemical resistant clothing must be worn including; coveralls, face shield, respiratory protection (organic vapour minimum specification) gauntlet gloves and boots/footwear.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Form	Liquid
Colour	Brown
Odour	No odour
pH (1% solution)	6.0 - 8.0
Specific gravity	NA
Flash Point (°C)	NA
Flammability Limits	Non-flammable.
Miscibility	Miscible in water.
Oxidising properties	Not oxidising
Explosive properties	Not explosive

SECTION 10 – STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Incompatibility	Incompatible with strong acids and bases, oxidizing agents.
Hazardous Reactions	No

SECTION 11 – TOXICOLOGICAL INFORMATION

This section describes effects which could occur if this product is not handled in accordance with this data sheet.

Acute Toxicity (Active Ingredient)	No toxicological data is available for the finished product. <u>Clopyralid</u> Acute Oral, LD ₅₀ (male rat): 3738 mg/kg Acute Oral, LD ₅₀ (female rat): 2675 mg/kg Acute Dermal, LD ₅₀ (rabbit) > 2000 mg/kg Inhalation, LC ₅₀ (rat) (4h) > 0.38 mg/l <u>Picloram</u> Acute Oral, LD ₅₀ (male rat) > 5000 mg/kg Acute Oral, LD ₅₀ (mice): 2000 - 4000 mg/kg Acute Oral, LD ₅₀ (rabbit): 2000 mg/kg Acute Oral, LD ₅₀ (guinea pigs): 3000 mg/kg Acute Oral, LD ₅₀ (sheep) > 1000 mg/kg Acute Oral, LD ₅₀ (cattle) > 750 mg/kg Acute Dermal, LD ₅₀ (rabbit) > 2000 mg/kg Inhalation, LC ₅₀ (male and female rat) > 0.035 mg/L Causes serious eye irritation.
Eye Irritating	None
Skin Irritation	None
Sensitisation Effects	Not a sensitiser.
Carcinogenic Effects	None
Tetratogenic (Birth) Effects	None
Reproductive Effects	None
Specific Organ Toxicity	None
Mutagenic Effects	None
Systemic Effects	None

SECTION 12 – ECOTOXICITY INFORMATION

This section describes effects which could occur if this material is not handled in accordance with this data sheet.

The following information is presented in respect of the active ingredients:

Ecotoxic Effects	<u>Clopyralid</u> Acute Oral LD ₅₀ (Bird: mallard ducks): 1465 mg/kg Acute Oral LD ₅₀ (Bird: bobwhite quail) > 2000 mg/kg LC ₅₀ (96h) (Fish: Rainbow trout): 103.5 mg/L LC ₅₀ (96h) (Fish: Bluegill sunfish): 125.4 mg/L EC ₅₀ (48h) (Daphnia): 225.0 mg/L LD ₅₀ (48h) (Bee) >100 ug/bee (oral and contact) <u>Picloram</u> Acute Oral LD ₅₀ (Chicks): 6000 mg/kg LC ₅₀ (Bird: mallard ducks and bobwhite quail) > 5000 mg/kg LC ₅₀ (96h) (Fish: Rainbow trout): 5.5 mg/L LC ₅₀ (96h) (Fish: Bluegill sunfish): 14.5 mg/L LC ₅₀ (Daphnia): 34.4 mg/L EC ₅₀ (48h) (Algae: Selenastrum): 36.9 mg/L LD ₅₀ (Honeybee) >100 ug/bee
Persistent/ degradability	No
Bioaccumulative Potential	No
Soil Mobility	NA
Environmental Exposure Limit	None established

SECTION 13 – DISPOSAL CONSIDERATIONS

Product	Dispose of this product only by using according to the label, or at an approved hazardous substance waste receival facility or other approved waste transfer station/facility.
Container	Ensure the container is empty. Triple rinse empty container and add rinsate to the spray tank. Recycle empty container through Agrecovery (0800 247 326, www.agrecovery.co.nz). Otherwise submit to a suitable refuse transfer station or hazardous waste receival facility. DO NOT reuse this container for any other purpose.

SECTION 14 – TRANSPORT INFORMATION

Dangerous Goods	
UN Number	3082
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (CONTAINS CLOPYRALID, PICLORAM)
Class	9
Subsidiary Class	None
Packaging Group	III
Additional Information	MARINE POLLUTANT
MTQ (Non-Commercial)	250 L

SECTION 15 – REGULATORY INFORMATION

HSNO Approval No	HSR000762
ACVM Approval No	Not required.

SECTION 16 – OTHER INFORMATION

This SDS contains only safety-related information. For other data see product literature.

Contact Points	
Police, Ambulance and Fire Service	111
National Poisons Information Centre	0800 POISON (0800 764 766)
Hazardous Substances Emergency	0800 Chemcall (0800 243 622)