


SECTION 1 – IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Product Name	Cletho 240 EC Selective Herbicide
Company Name	Kenso Corporation (M) Sdn Bhd
Address	2 Bond Crescent, Forrest Hill, Auckland 0620 New Zealand
Telephone	0800 536 766
Hazardous Substance	0800 CHEMCALL (0800 243 622) (24 hours)
Emergency Telephone	
National Poisons Centre	0800 POISON (0800 764 766) (24 hours)
Use	Selective post-emergence herbicide for the control of grass weed in broadleaf crops and forestry.

SECTION 2 – HAZARDS IDENTIFICATION

Hazard Pictograms	
Hazard Classification	3.1D, 6.1E, 6.3A, 6.4A, 6.9B, 9.1B, 9.2A, 9.3C
Priority Identifier	COMBUSTIBLE LIQUID HARMFUL ECOTOXIC KEEP OUT OF REACH OF CHILDREN
Secondary Identifier	3.1D = Combustible liquid 6.1E = May be harmful if swallowed 6.3A = Cause skin irritation 6.4A = Cause eye irritation 6.9B = May cause reproductive/development damage from repeated oral exposure at high doses. 9.1B = Toxic to aquatic organisms 9.2A = Very toxic in the soil 9.3C = Harmful to terrestrial vertebrates

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS No	Proportion
Clethodim	99129-21-2	24% w/v
Other ingredients	secret	To 100% w/v

SECTION 4 – FIRST AID MEASURES

Ingestion	If swallowed, DO NOT induce vomiting. Seek urgent 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. 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 patient to fresh air. If not breathing, give artificial respiration, preferably mouth-to-nose. Get medical attention if symptoms develop.
Advice to Doctor	Treat symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

Fire/Explosion Hazard	This product is classified as a C1 combustible product. There is little risk of an explosion from this product if commercial quantities are involved in a fire. Violent steam generation or eruption may occur upon application of direct water stream on hot liquids. Vapours from this product are heavier than air and may accumulate in sumps, pits and other low-lying spaces, forming potentially explosive mixtures. They may also flash back considerable distances.
HAZCHEM Code	2X
IER Guide No	47
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 water from fire-fighting to enter water supplies or drainage systems.
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SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions Spillage	For appropriate personal protective equipment (PPE), refer to section 8. 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 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.
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SECTION 7 – HANDLING AND STORAGE

Storage	Keep out of reach of children. Store in original container, tightly closed, away from human and animal foodstuffs, medicines and remedies, seeds and fertilisers. Segregate from incompatible hazardous substances (Classes 1, 4 & 5). Store under lock and key 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 be trained, experienced or supervised in accordance with requirements for class 6 and 9 substances of the Health and Safety at Work (Hazardous Substances) Regulations 2017 part 4.5 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 8409:2004 'Management of Agrichemicals', and relevant local and regional council plans.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering Controls	Handle in well ventilated areas, generally natural ventilation is adequate. 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, wear full respiratory protection (at least to organic vapour standard) eye protection, chemical resistant: coveralls and gloves and boots.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Form	Clear liquid
Colour	Amber colour
Odour	Aromatic odour
Specific gravity	0.96
Flash point (°C)	NA
Flammability Limits	Combustible
Miscibility	Emulsify in water
Oxidising properties	Not oxidising
Explosive properties	Not explosive

SECTION 10 – STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Conditions To Avoid Hazardous Materials	Avoid sources of ignition and extremes of temperature. Hydrogen bromide, hydrogen cyanide, hydrogen fluoride, and oxides of carbon and nitrogen may be released in a fire.
Incompatibility	Incompatible with strong acids and bases, oxidizing agents.

Hazardous Reactions	No.
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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	Acute Oral, LD ₅₀ (rat): 1360 mg/kg Acute Dermal, LD ₅₀ (rat) >5000 mg/kg Inhalation, LC ₅₀ (rat) (4hr): 3.9 mg/l
Skin Irritation	Slight irritating.
Eye Irritation	Slight irritating.
Sensitisation	Non sensitizing (guinea pig).

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 ingredient:

Ecotoxic Effects	Fish toxicity: Acute Oral LD ₅₀ Bobwhite quail >2000 mg/kg LC ₅₀ (96 h) Rainbow trout 67 mg/L Daphnia toxicity: EC ₅₀ (48 h) Daphnia 120 mg/L
Environmental Fate	Not bio-accumulative
Environmental Exposure Limit	Spray dirt can cause damage

SECTION 13 – DISPOSAL CONSIDERATIONS

Product	Dispose of this product only by using according to the label, or at an approved landfill or other approved facility.
Container	Triple rinse empty container and add residue to spray tank. Recycle empty container through Agrecovery (0800 247 326, www.agrecovery.co.nz). Otherwise, submit to local authority refuse receival facility. Do not burn. I. 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 CLETHODIM)
Class	9
Subsidiary Class	None
Packaging Group	III
Additional Information	MARINE POLLUTANT
MTQ (Non-Commercial)	250 L

SECTION 15 – REGULATORY INFORMATION

HSNO Approval No	HSR101346
ACVM Approval No	P9624

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)