


SECTION 1 – IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Product Name	Kensban 500 Insecticide
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 use as broad spectrum insecticide to control of insect pests in agricultural and horticultural crops.

SECTION 2 – HAZARDS IDENTIFICATION

Hazard Pictograms	
Hazard Classification Priority Identifier	3.1D, 6.1C, 6.3B, 6.4A, 6.9A, 9.1A, 9.2B, 9.3A, 9.4A WARNING – COMBUSTIBLE LIQUID TOXIC ECOTOXIC KEEP OUT OF REACH OF CHILDREN
Secondary Identifier	3.1D = Combustible liquid – keep away from naked flame. 6.1C = May be fatal if swallowed, inhaled or absorbed through the skin. 6.3B = Harmful – may cause skin irritation. 6.4A = Harmful – may cause eye irritation. 6.9A = Toxic – presumed to/may cause target organ damage from repeated oral exposure at high doses. 9.1A = Very toxic to aquatic organisms 9.2B = Toxic in the soil environment 9.3A = Very toxic to terrestrial vertebrates 9.4A = Very toxic to terrestrial invertebrate

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS No	Proportion
Chlorpyrifos	2921-88-2	50% w/v
Other ingredients	secret	To 100% w/v

SECTION 4 – FIRST AID MEASURES

Ingestion	If swallowed, DO NOT induce vomiting. Seek 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 and launder well before use. 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 medical advice.
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	35

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.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions	For appropriate personal protective equipment (PPE), refer to section 8.
Spillage	Contain spill and absorb with sand or proprietary absorbent (vermiculite zeolite clay). Prevent from entering drains, waterways or sewers. Collect contaminated materials and recovered product in sealed open top containers for disposal. The product is highly toxic to fish and hence should be kept from entering water bodies, drains and storm water systems. Triple rinse containers, add rinsate to the spray tank, then offer container for recycling/reconditioning (Agrecovery), or puncture top, sides and bottom and dispose of in landfill in accordance with local regulations. On-site disposal of concentrate is not acceptable.

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 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.
Approved Handler	Required when at time of use.
Tracking	No required.
Record Keeping	Not required.
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 potential exposure always wear full respiratory protection (at least to organic vapour standard) eye and face protection, chemical resistant; coveralls and gloves and boots.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Form	Clear liquid
Colour	Brown colour
Odour	Nonspecific odour
Specific gravity	1.08
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	Avoid sources of ignition and extremes of temperature.
Hazardous Materials	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.

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

Acute Toxicity (for active ingredient, chlorpyrifos)	Acute Oral, LD ₅₀ (rat) 95-270 mg/kg Acute Dermal, LD ₅₀ (rat) >2000 mg/kg Inhalation, LC ₅₀ (rat) (4hr) >0.2 mg/l
Skin Irritation	Slight irritating.
Eye Irritation	Irritant
Sensitisation	Non sensitizing (guinea pig).
Other information	Chronic toxicity Repeated or prolonged exposure to organophosphates may result in the same effects as acute exposure including the delayed symptoms, other effects reported in workers repeatedly exposed include impaired memory and disorientation, irritability, headache, concentration, severe depression, speech difficulties, delayed reaction times, nightmares, sleepwalking, and drowsiness or insomnia. An influenza-like condition with headache, weakness, loss of appetite, and malaise has also been reported.

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:

Acute Toxicity – Fish (for active ingredient, chlorpyrifos)	Chlorpyrifos is very highly toxic to freshwater fish, aquatic invertebrates and estuarine and marine organisms. LC ₅₀ (96 hr) for chlorpyrifos in mature rainbow trout is 0.009 mg/l LC ₅₀ (96 hr.) for chlorpyrifos in lake trout is 0.098 mg/l LC ₅₀ (96 hr.) for chlorpyrifos in goldfish is 0.01 mg/l LC ₅₀ (96 hr.) for chlorpyrifos in fathead minnow is 0.331 mg/l
Acute Toxicity – Bird (for active ingredient, chlorpyrifos)	Chlorpyrifos is moderately to very highly toxic to birds. LD ₅₀ for pheasants is 8.41mg/kg LD ₅₀ for mallard ducks is 112 mg/kg LD ₅₀ for chickens is 32mg/kg

SECTION 13 – DISPOSAL CONSIDERATIONS

Product	Dispose of this product only by using according to the label, or at an approved landfill/transfer station or other approved hazardous substances management 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 crush and bury in a suitable landfill. DO NOT reuse this container for any other purpose.

SECTION 14 – TRANSPORT INFORMATION

Dangerous Goods	3018
UN Number	ORGANOPHOSPHORUS PESTICIDE, LIQUID, N.O.S. (contains CHLORPYRIFOS)
Proper Shipping Name	6.1
Class	None
Subsidiary Class	III
Packaging Group	MARINE POLLUTANT
Additional Information	250 L
MTQ (Non-Commercial)	

SECTION 15 – REGULATORY INFORMATION

HSNO Approval No	HSR000224
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ACVM Approval No P9013

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)