


SECTION 1 – IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Product Name	Timberwolf Xtra 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 selective weed control in forestry and non-selective weed control in non-cropland areas.

SECTION 2 – HAZARDS IDENTIFICATION

Hazard Pictograms	
GHS Signal Word	WARNING
Hazard Statement	H319: Causes serious eye irritation. H373: May cause damage to organs through prolonged or repeated exposure. H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long lasting effects.
Prevention	P103: Read label before use. P260: Do not breathe dust/fume/gas/mist/ vapours/spray. P264: Wash contacted areas thoroughly after handling. P273: Avoid release to the environment. P280: Wear protective gloves/protective clothing/eye protection/face protection.
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. P314: Get medical advice/attention if you feel unwell. P337 + P313: If eye irritation persists: Get medical advice/attention. P391: Collect spillage.
Disposal	P501: Dispose of contents/container as specified on the registered label.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS No	Proportion
Terbutylazine	5915-41-3	43.5% w/v
Hexazinone	51235-04-2	6.5% w/v
Dispersing/wetting agent	secret	<10% w/v
Water		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 (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 before use. Wash affected areas or skin thoroughly with soap and water. Seek medical advice if irritation develops.
Inhalation	Begin artificial respiration if breathing has stopped. 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	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	For appropriate personal protective equipment (PPE), refer to section 8.
Spillage	Prevent spillage from entering drains or water courses. Wear full chemical resistant protective clothing including coveralls, boots, goggles and gloves. Stop leak if safe to do so, and contain spill. Absorb into clay, sand, vermiculite or other suitable absorbent material. If spill is too large or if absorbent material is not available, try to create a dike to stop material spreading or going into drains or waterways. Sweep up and shovel or collect recovery product into labelled containers for recycling or salvage, and dispose of promptly. After spills, wash area with a detergent based solution preventing runoff from entering drains. If a significant quantity of material enters drains, immediately advise the local Regional Council and emergency services. Dispose of clean-up materials and recovered product through an approved hazardous substances receival facility. Do not dispose of undiluted chemicals on site. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to.
Environmental Precautions	Concentrate, solutions and washings must be prevented from entering surface water drains or waterways.

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.
Handler Competence	Persons responsible for the storage, handling, mixing, applying or disposing of this product must be either a Certified Handler, or, 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.
Tracking	Required.
Record Keeping	Required.
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	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, 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. When opening the container, preparing spray and using the prepared spray and/or controlling an accidental release wear full respiratory protection (at least to organic vapour standard) eye protection, chemical resistant: coveralls, boots and gloves.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Form	Flowable liquid
Colour	Off-white to beige colour
Odour	None
Specific gravity	1.13
Flash point (°C)	NA
Flammability Limits	Non combustible
Miscibility	Disperse in water
Oxidising properties	Not oxidising
Explosive properties	Not explosive

SECTION 10 – STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Incompatibility	No particular incompatibilities.
Hazardous Reactions	Keep away from strong oxidizing agents. Strong acid or alkaline will slowly decompose Terbutylazine and Hexazinone.

SECTION 11 – TOXICOLOGICAL INFORMATION

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

<p>Toxicology Information</p> <p>Acute Toxicity</p> <p>Sensitisation Effects</p> <p>Carcinogenic Effects</p> <p>Teratogenic (Birth) Effects</p> <p>Reproductive Effects</p> <p>Mutagenic Effects</p> <p>Systemic Effects</p>	<p>No specific toxicological data is available for this product. Data below Information is for active constituents.</p> <p>Terbutylazine Acute Oral, LD₅₀ (rat) 1845 mg/kg Acute Dermal, LD₅₀ (rabbit) >2000 mg/kg Inhalation, LC₅₀ (rat) (4hr) >3.51 mg/l</p> <p>Hexazinone Acute Oral, LD₅₀ (rat) 1690 mg/kg Acute Dermal, LD₅₀ (rabbit) >5278 mg/kg Inhalation, LC₅₀ (rat) (1hr) >7.48 mg/l</p> <p>None None None None None Ingestion of hexazinone at high doses is damaging to the blood and hematopoietic (blood cell production) system</p>
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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:

<p>Ecotoxic Effects</p> <p>Environmental Fate</p>	<p>Terbutylazine Acute Oral LD₅₀ (Ducks) >1000mg/kg LC₅₀ (96hr) (Rainbow trout) 3.8 - 4.6 mg/l LC₅₀ (48hr) (Daphnia) 21 - 50.9 mg/l Algae EC50 (72hr) 0.016-0.024 mg/l Very toxic to some plant species (selective herbicide) Non toxic to bees</p> <p>Hexazinone Acute Oral LD₅₀ (Bobwhite quail) 2258mg/kg LC₅₀ (96hr) (Rainbow trout) 320 - 420 mg/l LC₅₀ (48hr) (Daphnia) 442 mg/l Very toxic to some plant species (selective herbicide) Non toxic to bees</p> <p>Terbutylazine Biodegradable. DT₅₀ (soil) 30-60 days</p> <p>Hexazinone Biodegradable. DT₅₀ (soil) 30-180 days</p>
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SECTION 13 – DISPOSAL CONSIDERATIONS

Product	Dispose of this product only by using according to the label, or at an approved hazardous substances waste receiveal facility. On-site disposal of concentrate is not acceptable.
Container	Triple rinse containers, add rinsate to the spray tank, then offer container for recycling/reconditioning (Agrecovery), or puncture top, sides and bottom and submit to a local authority waste receiveal facility (Transfer Station). 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 TERBUTHYLAZINE, HEXAZINONE)
Class	9
Subsidiary Class	None
Packaging Group	III
Additional Information	MARINE POLLUTANT
MTQ (Non-Commercial)	250 L

SECTION 15 – REGULATORY INFORMATION

HSNO Approval No	HSR101107
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)