


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	(09) 410 0861
Emergency Telephone	0800 CHEMCALL (0800 243 622) (24 hours)
National Poisons Centre	0800 POISON (0800 764 766) (24 hours)
Use	For selective control in forestry and non-selective weed control in industrial situation.

SECTION 2 – HAZARDS IDENTIFICATION

Hazard Pictograms	
Hazard Classification	6.1E, 6.4A, 6.9B, 9.1A, 9.2A, 9.3C
Priority Identifier	HARMFUL ECOTOXIC
Secondary Identifier	KEEP OUT OF REACH OF CHILDREN 6.1E = May be harmful if swallowed, inhaled or absorbed through the skin. 6.4A = May cause eye irritation 6.9B = May cause organ damage from repeated oral exposure at high doses 9.1A = Very 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
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 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.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions	For appropriate personal protective equipment (PPE), refer to section 8.
Spillage	For cleanup of a spill from a single shipping pack soak up with clay, sand or other non-combustible absorbent material and place into containers for disposal. If applicable, wash the area with detergent and water. 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 regional council and emergency services. Ensure legality of disposal by consulting regulations prior to disposal. 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.
Approved Handler	Required. Product must be under the control of an Approved Handler over all lifecycle stages.
Tracking	Required.
Record Keeping	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	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. In case of heavy exposure, wear full respiratory protection (at least to organic vapour standard) eye protection, chemical resistant coveralls 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.

Toxicology Information	No specific toxicological data is available for this product. Data below Information is for active constituents.
Acute Toxicity	<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>
Sensitisation Effects	None
Carcinogenic Effects	None
Teratogenic (Birth) Effects	None
Reproductive Effects	None
Mutagenic Effects	None
Systemic Effects	Ingestion of hexazinone at high doses is damaging to the blood and hematopoietic (blood cell production) system

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	<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>
Environmental Fate	<p>Terbutylazine Biodegradable. DT₅₀ (soil) 30-60 days</p> <p>Hexazinone Biodegradable. DT₅₀ (soil) 30-180 days</p>

SECTION 13 – DISPOSAL CONSIDERATIONS

Product	Dispose of this product only by using according to the label, or at an approved
---------	---

Container	landfill or other approved facility. If local authority regulations permit burn packaging otherwise crush and bury in a suitable landfill. 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)