


SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Product Name:	Kenso Agcare Timberwolf 875 WG Herbicide
Product Type:	Group C Herbicide
Company Name:	Kenso Corporation (M) Sdn Bhd
Address:	Level 1, 98 Commercial Road, Teneriffe, QLD 4005
Telephone Number:	(07) 3216 1188
Facsimile Number:	(07) 3216 0388
Emergency Telephone Number:	000 (Police or Fire Brigade) 13 11 26 (Poisons Information Centre)
Use:	For the control of weeds in chickpeas, faba beans, field peas, lupins and triazine tolerant canola as directions for use table.

SECTION 2 – HAZARDS IDENTIFICATION

Hazard Classification:	Classified as hazardous according to criteria of Safe Work Australia. Not classified as a Dangerous Good according to the ADG code
	
GHS Signal word:	WARNING
Hazard statement:	H302: Harmful if swallowed. H400: Very toxic to aquatic life.
Prevention:	P264: Wash contacted areas thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P273: Avoid release to the environment.
Response:	P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. P330: Rinse mouth. P391: Collect spillage.
Disposal:	P501: Dispose of contents and containers as specified on the registered label.
SUSMP Classification:	S6
ADG Classification:	N/A
UN Number:	N/A

Emergency Overview

Physical Description & colour: Off-white to beige water dispersible granule
Odour: Distinctive thiol odour

Major Health Hazards: May irritate the eyes. Avoid contact with eyes.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS number	Proportion
Terbutylazine	5915-41-3	87.5 %
Inert ingredients	secret	to 100 %

SECTION 4 – FIRST AID MEASURES

General Information:

If poisoning occurs, contact a doctor or Poisons Information Centre (Tel: 131126).

Inhalation:	Remove to fresh air until recovered. If symptoms persist, seek medical advice.
Skin contact:	Remove contaminated clothing and launder before use. Wash affected areas or skin thoroughly with soap and water. Seek medical advice if irritation develops.
Eye contact:	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Seek immediate medical attention.
Ingestion:	If product is swallowed or gets in mouth, do NOT induce vomiting. Seek medical advice or contact Poisons Information Centre (Ph 13 11 26).

Advice to Doctor:

Treat symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

Fire/Explosion Hazard

Dangerous Decomposition or Combustion Products

Thermal Decomposition There is no risk of an explosion from this product under normal circumstances if it is involved in a fire. Violent steam generation or eruption may occur upon application of direct water stream on hot liquids.

Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.

Extinguishing Media

Water fog, foam, carbon dioxide or dry chemical.

Fire Fighting

If a significant quantity of this product is involved in a fire, call the fire brigade.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spills & Disposal

In the event of a major spill, prevent spillage from entering drains or water courses. Wear full protective clothing including eye/face protection.

Product spill: Sweep granules and shovel or collect recoverable product into labeled containers for recycling or salvage, and dispose of promptly.

Wash the spill area with detergent and water. Launder protective clothing before storage or re-use.

SECTION 7 – HANDLING AND STORAGE

Handling

When handling this product, do not eat, drink or smoke.

When opening the container, mixing and loading and preparing the spray wear cotton overalls buttoned to the neck and wrist, a washable hat, elbow length chemical resistant gloves and a half face-piece respirator with dust cartridge or canister. If products in eye wash it out immediately with water. Wash hands after use. After each day's use, wash respirator and contaminated clothing. If rubber, wash with detergent and warm water.

Storage

Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight. Keep from contact with fertilisers and seeds.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits TWA (mg/m³) STEL (mg/m³)

Exposure limits have not been established by SWA for any of the significant ingredients in this product.

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

Engineering Controls

This product should only be used in a well ventilated area. If natural ventilation is inadequate, use of a fan is suggested.

Personal Protective Equipment

When opening the container, mixing and loading and preparing the spray wear cotton overalls buttoned to the neck and wrist, a washable hat, elbow length chemical resistant gloves and a half face-piece respirator with dust cartridge or canister.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Form:	Water Dispersible Granule
Colour:	Off-white to beige
Odour:	Distinctive thiol odour

Vapour Pressure:	Not applicable
Melting Point:	175.5°C for Terbutylazine Technical
Specific Density:	Not applicable
Solubility	Dispersible

SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability

This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.

Hazardous Reaction

Keep away from strong acids, strong bases, strong oxidising agents.

Hazardous Polymerization

Hazardous polymerisation is not possible.

Conditions to Avoid

Protect this product from light. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight.

SECTION 11 – TOXICOLOGICAL INFORMATION

Toxicity data (on Terbutylazine technical)

Acute Toxicity – Oral

LD₅₀ (rats) = 1590 mg/kg

Acute percutaneous LD₅₀ (rats) = >2000 mg/kg

Acute Toxicity – Inhalation

LC₅₀ (4h) for rats = >5.3 mg/L

Skin irritation: NON IRRITANT

Eye irritation: NON IRRITANT

Sensitization: NON SENSITISER

Potential Health Effects

Health Effects

Product may irritate the eyes. Avoid contact with eyes. Harmful if swallowed.

Acute:

Inhalation:	Product is not harmful through data available. It is unlikely to develop any discomfort.
Skin contact:	Product should present no hazards in normal use. However, this product maybe irritating yet unlikely to cause anything more than mild transient comfort.
Eye contact:	Product may be irritating to eye yet unlikely to cause anything more than mild transient discomfort.

Ingestion: This product is harmful if swallowed, developed symptoms are not available. It may cause mucous membranes irritation but unlikely to cause anything more than transient discomfort.

Reproductive Toxicity

Data indicate no reproductive effects

Mutagenicity

Data indicates no mutagenic effects.

Carcinogenicity

Not classified as human carcinogen.

Other Information

The Australian Acceptable Daily Intake (ADI) for Terbutylazine is set at 0.003 mg/kg/day with corresponding NOEL is set at 0.35 mg/kg/day. (Ref.: ADI List, March 2016)

SECTION 12 – ECOLOGICAL INFORMATION

Very toxic to aquatic life.

Ecotoxicity data (of technical)

Acute Toxicity – Bird

LD₅₀ mallard duck: >4640 mg/kg

Acute Toxicity – Fish

LC₅₀ rainbow trout (96 hrs): 1.1 mg/L

Acute Toxicity – Crustaceans

Daphnia LC₅₀ (48 hrs): 2.66 mg/L

Acute Toxicity – Other organisms

Algae: E_bC₅₀ *Selenastrum capricornutum* (72 hrs): 0.0017 mg/L for azoxystrobin.

Algae: EC₅₀ *Lemna gibba* (14 days): 0.025 mg/L

Worms: LC₅₀ *Eisenia foetida*: 170 mg/kg

Bees: LD₅₀ (oral): >225 µg/bee. Not toxic to bees.

ENVIRONMENTAL FATE

Terbutylazine is expected to have slight mobility, it interacts in soil to form strong bound residue. Residual activity in soil is 3 – 10 weeks, depending on application rate, soil type and weather. DT₅₀ in field 9- 47 days, Koc 392 – 605. Soil organisms plays important role in terbutylazine degradation.

SECTION 13 – DISPOSAL CONSIDERATIONS

Disposal: Instructions concerning the disposal of this product and its containers are given on the product label. These should be carefully followed.

SECTION 14 – TRANSPORT INFORMATION

Transport	Considered non dangerous for road and rail transport (in packaging) by the Australian Code for the Transport of Dangerous Goods by Road and Rail. Ref: ADG7; SP No. AU01.
UN Number (Sea Transport):	3077
IMO Class/Packing Group:	Class 9; Packing Group III
IMO Marine Pollutant:	Marine Pollutant
IMO Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains Terbutylazine)

SECTION 15 – REGULATORY INFORMATION

SUSMP Classification	S6
Packaging & Labelling	POISON KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING

SECTION 16 – OTHER INFORMATION

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

Acronyms:

ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail
CAS number	Chemical Abstracts Service Registry Number
Hazchem Number	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
IARC	International Agency for Research on Cancer
NOHSC	National Occupational Health and Safety Commission
SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
UN Number	United Nations Number
GHS	Globally Harmonised System

CONTACT POINT:

Police and Fire Brigade:	Dial	000
National Poisons Information Centre:	Dial	13 11 26 (from anywhere in Australia)
For 24 hour emergency response:	Dial	0439 933 556
		Ask for Murray Goodlich