# SAFETY DATA SHEET

## SECTION 1 – IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

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| **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 |
| **Emergency Telephone Number:** | 000 (Police or Fire Brigade)<br>**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

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| **Classification of the Hazardous Chemical:** | Acute toxicity (Oral) – Category 4<br>Hazardous to the aquatic environment, short term – Acute 1 |
| **GHS Signal word:** | **WARNING** |
| **Hazard statement:** | H302: Harmful if swallowed.<br>H400: Very toxic to aquatic life. |
| **Prevention:** | P264: Wash contacted areas thoroughly after handling.<br>P270: Do not eat, drink or smoke when using this product.<br>P273: Avoid release to the environment. |
| **Response:** | P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.<br>P330: Rinse mouth.<br>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 |
|---|---|---|
| Terbuthylazine | 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).

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| **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

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|---|---|
| **Form:** | Water Dispersible Granule |
| **Colour:** | Off-white to beige |
| **Odour:** | Distinctive thiol odour |
| **Vapour Pressure:** | Not applicable |
| **Melting Point:** | 175.5°C for Terbuthylazine 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 Terbuthylazine technical)**
**Acute Toxicity – Oral**
$LD_{50}$ (rats) = 1590 mg/kg
Acute percutaneous LD50 (rats) = >2000 mg/kg
**Acute Toxicity – Inhalation**
$LC_{50}$ (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 ADI for terbuthylazine is set at 0.003 mg/kg/day with corresponding NOEL is set at 0.35 mg/kg/day. **ADI= Acceptable Daily Intake; NOEL: No Observable Effect Level. Data adopted from Australia ADI List, June 2023.*

## SECTION 12 – ECOLOGICAL INFORMATION

Very toxic to aquatic life.

**Ecotoxicity data (of technical)**
**Acute Toxicity – Bird**
$LD_{50}$ mallard duck: >4640 mg/kg
**Acute Toxicity – Fish**
$LC_{50}$ rainbow trout (96 hrs): 1.1 mg/L
**Acute Toxicity – Crustaceans**
Daphnia $LC_{50}$ (48 hrs): 2.66 mg/L
**Acute Toxicity – Other organisms**
Algae: $E_bC_{50}$ *Selenastrum capricornutum* (72 hrs): 0.0017 mg/L for azoxystrobin.
Algae: $EC_{50}$ *Lemna gibba* (14 days): 0.025 mg/L
Worms: $LC_{50}$ *Eisenia foetida*: 170 mg/kg
Bees: $LD_{50}$ (oral): >225 µg/bee. Not toxic to bees.

**ENVIRONMENTAL FATE**
Terbuthylazine 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. $DT_{50}$ in field 9- 47 days, Koc 392 – 605. Soil organisms plays important role in terbuthylazine 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

**ADG**

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|---|---|
| **UN Number:** | 3077 |
| **Proper shipping name:** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains TERBUTHYLAZINE) |
| **Class:** | 9 |

| | |
|---|---|
| **Packaging group:** | III |
| **Storage and 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 |

**IMO-IMDG**

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|---|---|
| **UN Number:** | 3077 |
| **Proper shipping name:** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains TERBUTHYLAZINE) |
| **Class:** | 9 |
| **Packaging group:** | III |
| **Marine pollutant:** | Yes |

## SECTION 15 – REGULATORY INFORMATION

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|---|---|
| **SUSMP Classification** | S6 |
| **Packaging & Labelling** | POISON<br>KEEP OUT OF REACH OF CHILDREN<br>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:**

| | |
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| **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:**

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|---|---|---|
| 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 | |