

Infosafe No™ 3NUSM	Issue Date : April 2019	ISSUED by NUFARM
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 Product Name **Terbazine 875 WG Herbicide**

Classified as hazardous

## 1. Identification

<b>GHS Product Identifier</b>	Terbazine 875 WG Herbicide
<b>Product Code</b>	0843
<b>Product Type</b>	Group C Herbicide
<b>Company Name</b>	NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)
<b>Address</b>	103-105 Pipe Road Laverton North Victoria 3026 Australia
<b>Telephone/Fax Number</b>	Tel: +61 3 9282-1000 Fax: +61 3 9282-1001
<b>Emergency phone number</b>	1800 033 498 (24hr Australia)
<b>Recommended use of the chemical and restrictions on use</b>	For the control of weeds in chickpeas, faba beans, fallows, field peas, lentils, lupins, sorghum and triazine tolerant canola as per the Directions for Use table on the label.
<b>Other Information</b>	This Safety Data Sheet describes the properties of the concentrated product. The physical properties and the assessments may not apply to the properties of the product once it has been diluted for application.

## 2. Hazard Identification

<b>GHS classification of the substance/mixture</b>	OT4 Acute Toxicity - Oral: Category 4 AC1 Hazardous to the Aquatic Environment - Long-Term Hazard: Category 1 AA1 Hazardous to the Aquatic Environment - Acute Hazard: Category 1
<b>Signal Word (s)</b>	WARNING
<b>Hazard Statement (s)</b>	H302 Harmful if swallowed. H400 Very toxic to aquatic life.
<b>General Precautionary Statement (s)</b>	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Read label before use.
<b>Pictogram (s)</b>	Exclamation mark, Environment, The below pictograms are GHS Hazard symbols for workplace use only. See SECTION 14 for Dangerous Goods information.



<b>Precautionary statement – Prevention</b>	P264 Wash hands and exposed skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product.
<b>Precautionary statement – Response</b>	P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P330 Rinse mouth.
<b>Other Information</b>	Poisons Schedule S6

## 3. Composition/information on ingredients

<b>Chemical Characterization</b>	Solid		
<b>Ingredients</b>	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Terbuthylazine	5915-41-3	875 g/kg
	Other ingredients (considered non-hazardous)		Balance

## 4. First-aid measures

<b>Inhalation</b>	Remove affected person to fresh air until recovered. If symptoms develop or persist, seek medical advice.
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<b>Ingestion</b>	If swallowed do NOT induce vomiting; seek medical advice immediately and show this container or label or contact the Poisons Information Centre on 13 11 26 (Aust). Make every effort to prevent vomit from entering the lungs by careful placement of the patient.
<b>Skin</b>	Wash affected areas thoroughly with soap and water. Remove contaminated clothing and launder before re-use.
<b>Eye contact</b>	If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes. Seek medical advice if irritation develops or persists.
<b>Advice to Doctor</b>	Treat symptomatically.

## 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Water fog, foam, carbon dioxide or dry chemical. Avoid strong water jets - airborne dusts may form a flammable dust cloud.
<b>Hazards from Combustion</b>	If involved in a fire, it will emit toxic fumes of cyanides, hydrogen chloride and possibly carbon oxides.
<b>Products</b>	Combustible solid.
<b>Special Protective Equipment for fire fighters</b>	Breathable air apparatus may have to be worn in confined spaces.
<b>Other Information</b>	STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES.

## 6. Accidental release measures

<b>Spills &amp; Disposal</b>	Recover the product by sweeping up or vacuuming without raising dust. Collect spilled material and waste in sealable open-top type containers for disposal.
<b>Personal Protection</b>	For appropriate personal protective equipment (PPE), refer Section 8.
<b>Environmental Precautions</b>	Prevent from entering drains, waterways or sewers.

## 7. Handling and storage

<b>Precautions for Safe Handling</b>	Do NOT contaminate dams, rivers or streams, or any other water bodies with chemical or used containers. If dusts are generated, it is advisable to wear a dust mask, refer Section 8.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in the closed, original container in a dry, well ventilated area out of direct sunlight. Keep container tightly sealed and do not store with seed, fertilisers or foodstuffs.
<b>Other Information</b>	Always read the label and any attached leaflet before use.

## 8. Exposure controls/personal protection

<b>Appropriate engineering controls</b>	Handle in well ventilated areas, generally natural ventilation is adequate.
<b>Respiratory Protection</b>	If dusts are present, wear a class P1 dust mask.
<b>Personal Protective Equipment</b>	When opening the container, preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and goggles. Re-entry Period - Do not allow entry into treated areas for 8 days after treatment. When prior entry is necessary, wear all protective clothing and chemical resistant gloves. Read the label for any other instructions.
<b>Hygiene Measures</b>	After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash contaminated clothing and safety equipment.
<b>Requirements Concerning Special Training</b>	Check State or Territory regulations that require people who use pesticides in their job or business to have training in the application of the materials.

## 9. Physical and chemical properties

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<b>Form</b>	Solid
<b>Appearance</b>	Off white granule
<b>Odour</b>	Odourless
<b>Melting Point</b>	176°C for terbuthylazine
<b>Solubility in Water</b>	Disperses in water.
<b>Vapour Pressure</b>	0.12 mPa for terbuthylazine
<b>Volatile Component</b>	<1%
<b>Partition Coefficient: n-octanol/water</b>	Kow Log P is 1.9 for terbuthylazine
<b>Flammability</b>	Combustible

## 10. Stability and reactivity

<b>Chemical Stability</b>	Stable under normal conditions.
<b>Possibility of hazardous reactions</b>	Keep away from strong oxidising agents, may react violently.
<b>Hazardous Polymerization</b>	Hazardous polymerisation is not possible.

## 11. Toxicological Information

<b>Toxicology Information</b>	No harmful effects are expected if the precautions on the label and this MSDS are followed.
<b>Acute Toxicity - Oral</b>	LD50 (rat) 1503 mg/kg for terbuthylazine
<b>Acute Toxicity - Dermal</b>	LD50 (rat) >2000 mg/kg for terbuthylazine
<b>Acute Toxicity - Inhalation</b>	LC50 (rat) (4hr) >5.3 mg/l for terbuthylazine
<b>Ingestion</b>	Amounts swallowed incidental to normal handling procedures and use are not expected to cause injury.
<b>Inhalation</b>	Respiratory protection while spraying is recommended. Some temporary irritation may be experienced.
<b>Skin</b>	May irritate the skin. May cause sensitisation by prolonged skin contact.
<b>Eye</b>	May irritate the eyes.
<b>Skin Sensitisation</b>	Not a skin sensitizer.
<b>Reproductive Toxicity</b>	Data indicates no reproductive effects. Data indicates no teratogenic effects.
<b>Serious eye damage/irritation</b>	Not an eye irritant.
<b>Mutagenicity</b>	Data indicates no mutagenic effects.
<b>Skin corrosion/irritation</b>	Mild skin irritant.
<b>Other Information</b>	The Australian Acceptable Daily Intake (ADI) for terbuthylazine for a human is 0.003 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 0.35 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Aust Govt Dept. of APVMA, 'ADI List', June 2018).

## 12. Ecological information

<b>Persistence and degradability</b>	Average field half life of terbuthylazine is 75 days. This may be longer under cold or dry conditions.
<b>Other Precautions</b>	Do not contaminate dams, waterways or sewers with this product or the containers which have held this product.
<b>Environmental Protection</b>	Spray drift should be avoided, read the label for more information. Marine pollutant.

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<b>Acute Toxicity - Fish</b>	The following is data for the active ingredient, terbuthylazine. LC50 (96hr) for rainbow trout is 2.2 mg/l.
<b>Acute Toxicity - Daphnia</b>	LC50 (48hr) for daphnia is 21.2 mg/l for terbuthylazine.
<b>Acute Toxicity - Algae</b>	EC50 (72hr) for Pseudokirchneriella subcapitata 0.012 mg/l.
<b>Acute Toxicity - Other Organisms</b>	The following data is for the active ingredient, terbuthylazine. LD50 for bobwhite quail is >1236 mg/kg Bees: Not toxic to bees. LD50 >22.6 µg/bee.

### 13. Disposal considerations

<b>Product Disposal</b>	On site disposal of the concentrated product is not acceptable. Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, approach local authorities who hold periodic collections of unwanted chemicals (ChemClear®).
<b>Container Disposal</b>	Shake bag contents into spray tank until the bag is empty. Do not dispose of undiluted chemicals on site. Puncture or shred and deliver empty packaging for appropriate disposal at an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant local, state or territory government regulations. DO NOT burn empty containers or product.

### 14. Transport information

<b>Transport Information</b>	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.
<b>Storage and Transport</b>	Considered non dangerous for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail. Exempt from classification as a Dangerous Good in packs less than 3,000 kg or L as per ADG7, SP no. AU01. For bulk shipments as Class 9, use UN 3077, HazChem code 2Z.
<b>UN Number (Sea Transport)</b>	3077
<b>IMO Class/Packing Group</b>	Class 9
<b>IMO Marine Pollutant</b>	Marine Pollutant
<b>IMO Proper Shipping Name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains terbuthylazine)

### 15. Regulatory information

<b>Regulatory Information</b>	Australia: WHS regulations (2011) - Schedule 11: classification not listed.
<b>Poisons Schedule</b>	S6
<b>Other Information</b>	This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA). APVMA product number: 69790.

### 16. Other Information

<b>Date of preparation or last revision of SDS</b>	Revised on 01/04/2019. This SDS replaces document dated June 2014.
<b>Contact Person/Point</b>	Normal Hours: Mrs Kathleen Marsh Phone: +61 3 9282 1000 After Hours: Shift Supervisor Phone: 1800 033 498
<b>Revisions Highlighted</b>	The SDS was reviewed. Minor changes were made to the information. ...End Of MSDS...



# Safety Data Sheet

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