

Infosafe No™ 3NUY3	Issue Date : June 2017	ISSUED by NUFARM
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 Product Name **Agtryne MA Herbicide**

Classified as hazardous

## 1. Identification

<b>GHS Product Identifier</b>	Agtryne MA Herbicide
<b>Product Code</b>	0783
<b>Product Type</b>	Group C I 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 seedling broadleaf weeds in wheat, barley, some varieties of oats, pasture and sugar cane as specified in the Directions for Use table.
<b>Other Information</b>	www.nufarm.com.au

## 2. Hazard Identification

<b>GHS classification of the substance/mixture</b>	ED1 Eye Damage/Irritation: Category 1
<b>Signal Word (s)</b>	DANGER
<b>Hazard Statement (s)</b>	H318 Causes serious eye damage.
<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>	Corrosion, The below pictogram is a GHS Hazard symbol for workplace use only. See SECTION 14 for Dangerous Goods information.
	
<b>Precautionary statement – Prevention</b>	P280 Wear protective gloves, clothing, eye and face protection.
<b>Precautionary statement – Response</b>	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor/physician.
<b>Other Information</b>	Poisons Schedule S5

## 3. Composition/information on ingredients

<b>Chemical Characterization</b>	Liquid		
<b>Ingredients</b>	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Terbutryn	886-50-0	275 g/L
	MCPA (present as potassium salt)	94-74-6	160 g/L
	Propylene glycol	57-55-6	0-10 %
	Other ingredients (considered non-hazardous)		10-30 %

## 4. First-aid measures

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<b>Inhalation</b>	Remove affected person to fresh air until recovered.
<b>Ingestion</b>	Rinse mouth thoroughly with water. 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>	Remove contaminated clothing and launder before re-use. Wash affected areas thoroughly with soap and water.
<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 immediately.
<b>First Aid Facilities</b>	If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 11 26.
<b>Advice to Doctor</b>	Treat symptomatically.

## 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	If involved in a fire, the product will not burn. Choose extinguishing media to suit the burning material.
<b>Hazards from Combustion Products</b>	Non-combustible. If involved in a major fire, could evolve oxides of carbon or nitrogen.
<b>Special Protective Equipment for fire fighters</b>	Breathable air apparatus may have to be worn if material is involved in fires especially 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>	Collect spilled material and waste in sealable open-top type containers for disposal. Dispose of at a landfill in accordance with local regulations. On-site disposal of concentrate is not acceptable.
<b>Clean-up Methods - Large Spillages Environmental Precautions</b>	Place damaged containers in recovery bins (if available) and return to manufacturer. Prevent from entering drains, waterways or sewers.

## 7. Handling and storage

<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>Occupational exposure limit values</b>	An exposure standard has been set for propylene glycol (particulates) at (TWA) 10 mg/m <sup>3</sup> .
<b>Appropriate engineering controls</b>	Handle in well ventilated areas, generally natural ventilation is adequate.
<b>Respiratory Protection</b>	Do not inhale spray mist.
<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.
<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.

## 9. Physical and chemical properties

<b>Form</b>	Liquid
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<b>Appearance</b>	Opaque yellow liquid
<b>Odour</b>	Amine odour
<b>Solubility in Water</b>	Disperses in water.
<b>Specific Gravity</b>	1.123
<b>pH</b>	8 - 10
<b>Vapour Pressure</b>	0.225 mPa @ 25°C for Terbutryn MCPA salt is not volatile.
<b>Volatile Component</b>	~40% (water)
<b>Flammability</b>	Non combustible material.

## 10. Stability and reactivity

<b>Incompatible Materials</b>	Reaction of the concentrate or spray mix with acids will precipitate solid MCPA and largely de-activate the product and cause blockages in spray equipment.
<b>Hazardous Polymerization</b>	Forms an alkaline solution with water which may corrode aluminium and zinc. 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) 2500 mg/kg for terbutryn LD50 (rat) 700 mg/kg for MCPA
<b>Acute Toxicity - Dermal</b>	LD50 (rat) >2000 mg/kg for terbutryn LD50 (rat) >1000 mg/kg for MCPA
<b>Acute Toxicity - Inhalation</b>	LC50 (rat) (4hr) >2.2 mg/l for terbutryn
<b>Ingestion</b>	The concentrate is of low toxicity if swallowed. Amounts swallowed incidental to normal handling procedures and use are not expected to cause injury. May cause irritation to mouth, throat and stomach. Ingestion of the concentrate in relatively large amounts can result in liver, heart and kidney damage, unconsciousness and death.
<b>Inhalation</b>	The components of the product are of low volatility and no adverse effects are expected from handling the concentrate. However, care should be taken to avoid the inhalation of excessive amounts of spray mist during field spraying, respiratory irritation may occur.
<b>Skin</b>	May irritate the skin. Prolonged contact with the concentrate may result in absorption of MCPA in harmful amounts.
<b>Eye</b>	The concentrate may cause severe irritation of the eyes unless washed off immediately.
<b>Chronic Effects</b>	Liver and kidney damage has been noted in laboratory animals that have been fed excessive doses of MCPA. Repeated exposure may cause allergic disorders.
<b>Mutagenicity</b>	In vitro and in vivo mutagenicity, genotoxicity and clastogenicity assay results indicate that terbutryn is not mutagenic. The weight of evidence indicates that MCPA does not present a mutagenic risk.
<b>Other Information</b>	The Australian Acceptable Daily Intake (ADI) for terbutryn for a human is 0.1 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 10 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: Comm. Dept. of Health and Ageing, Office of Chemical Safety, 'ADI List', March 2016). ADI for MCPA is 0.01 mg/kg/day, NOEL 1.1 mg/kg/day.

## 12. Ecological information

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<b>Persistence and degradability</b>	Average field half life of terbutryn is 14 - 50 days. Average field half life of MCPA is <7 days.
<b>Other Precautions</b>	Do not contaminate dams, waterways or sewers with this product.
<b>Acute Toxicity - Fish</b>	The following is data for the active ingredient, terbutryn. LC50 (96hr) for rainbow trout is 3 mg/l. LC50 (96hr) for bluegill sunfish is 4 mg/l. The following is data for the ingredient, MCPA. LC50 (96hr) for rainbow trout is 232 mg/l.
<b>Acute Toxicity - Algae</b>	EC50 (72hr) for algae 0.0024 mg/l.
<b>Acute Toxicity - Other Organisms</b>	Not toxic to birds. Bees: Not toxic to bees. LD50 >100 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>	Triple rinse containers, add rinsate to the spray tank, then offer the container for recycling/reconditioning, or puncture top, sides and bottom and dispose of in landfill in accordance with local regulations. drumMUSTER is the national program for the collection and recycling of empty, cleaned, non returnable crop production and on-farm animal health chemical containers. If the label on your container carries the drumMUSTER symbol, triple rinse the container, ring your local Council, and offer the container for collection in the program.

### 14. Transport information

<b>Storage and Transport</b>	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 3082, HazChem code 2Z.
<b>UN Number (Sea Transport)</b>	3082
<b>IMO Class/Packing Group</b>	Class 9
<b>IMO Marine Pollutant</b>	Marine Pollutant
<b>IMO Proper Shipping Name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains Terbutryn)

### 15. Regulatory information

<b>Regulatory Information</b>	Australia: WHS regulations (2011) - Schedule 11: classification not listed.
<b>Poisons Schedule</b>	S5
<b>Packaging &amp; Labelling</b>	CAUTION KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING
<b>Other Information</b>	This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA). APVMA product number: 51071.

### 16. Other Information

<b>Date of preparation or last revision of SDS</b>	27/06/2017
<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 and product has been rebranded. ...End Of MSDS...



# Safety Data Sheet

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