

Infosafe No™ 3NUDD	Issue Date : December 2023	ISSUED by NUFARMNZ
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 Product Name **AGRITONE 750®**

## 1. Identification

<b>GHS Product Identifier</b>	AGRITONE 750®
<b>Product Code</b>	00066
<b>Product Type</b>	Selective herbicide
<b>Company Name</b>	Nufarm NZ
<b>Address</b>	Central Park, Building 3, Level 4, 666 Great South Road Ellerslie Auckland 1051 New Zealand
<b>Telephone/Fax Number</b>	Tel: 0-9-270 4150
<b>Emergency phone number</b>	0800 651 911
<b>E-mail Address</b>	nzinfo@nufarm.com
<b>Recommended use of the chemical and restrictions on use</b>	Selective herbicide for the control of many broadleaf weeds in established pastures, grass playing fields and lawns, and in cereals, grass seed and linseed crops.
<b>Other Information</b>	This SDS describes, to the best of our knowledge, the properties of the concentrated product. The physical properties and some of the assessments do not apply to the properties of the product once it has been diluted for application. Acute health effects of the diluted product are likely to be much less severe.

## 2. Hazard Identification

<b>GHS classification of the substance/mixture</b>	DANGEROUS GOODS.
<b>Other Information</b>	6.1D acute toxicant, 6.9A target organ toxicant, 8.3A eye corrosive, 9.1A aquatic toxicant, 9.2A soil toxicant, 9.3B terrestrial vertebrate toxicant, <b>TOXICITY</b> Toxic - may cause liver damage from repeated oral exposure at high doses. May be harmful if swallowed, inhaled or absorbed through the skin. <b>CORROSIVE</b> Danger - this product is corrosive and may cause eye damage. <b>ECOTOXIC</b> Very toxic to aquatic organisms. Selective herbicide - very toxic to some plant species. Toxic to terrestrial vertebrates.

## 3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion
	MCPA (present as the dimethylamine salt)	2039-46-5	750 g/L
	Casein	9000-71-9	0-10 %
	Water		to volume

## 4. First-aid measures

<b>First Aid Measures</b>	For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. Begin artificial respiration if the victim is not breathing. Use mouth-to-nose rather than mouth-to-mouth. Obtain medical attention.
<b>Inhalation</b>	Remove patient to fresh air. Lay down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. If swallowed do NOT induce vomiting. For advice, contact the National Poisons Centre (0800 764 766). Seek medical assistance immediately.

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<b>Skin</b>	Immediately flush body and clothes with large amounts of water. Remove contaminated clothing and footwear. Wash affected areas with soap and water. If a large area is affected seek medical assistance.
<b>Eye contact</b>	Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Seek medical assistance. Remove contact lenses, if present and easy to do.
<b>First Aid Facilities</b>	Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.
<b>Advice to Doctor</b>	Treat according to symptoms.

## 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Choose extinguishing media to suit the burning material. Water fog, foam, carbon dioxide or dry chemical.
<b>Special Protective Equipment for fire fighters</b>	Full protective clothing and self-contained breathing apparatus.
<b>Specific Methods</b>	Keep up wind. Do not allow washings to reach sewage or effluent systems. Keep containers cool with water spray.
<b>Specific hazards arising from the chemical</b>	May emit toxic fumes of hydrogen chloride or phosgene if material is involved in fires or subjected to extreme heat. Breathable air apparatus may have to be worn if material is involved in fires in confined spaces.
<b>Hazchem Code</b>	2X
<b>Other Information</b>	Location Certificate: Not applicable Hazardous Atmosphere Zone: Not applicable Number of Fire Extinguishers: Not applicable

## 6. Accidental release measures

<b>Spills &amp; Disposal</b>	Wear protective clothing. Clear area of unprotected personnel. Contain liquid spill and absorb with sand, soil or absorbent granules. If spill does enter waterways contact the local authority. Collect in an appropriate sealable container for disposal in an approved landfill.
<b>Personal Protection</b>	For appropriate personal protective equipment (PPE), refer Section 8.
<b>Environmental Precautions</b>	Prevent from entering drains, waterways or sewers. This product is a herbicide and spills can damage crops, pastures and desirable vegetation.

## 7. Handling and storage

<b>Precautions for Safe Handling</b>	Avoid skin and eye contact and inhalation of spray mist. APPROVED HANDLER: This product must be under the control of an approved handler if applied in a wide dispersive manner, or used by a commercial contractor. TRACKING: Is not required RECORD KEEPING: Records of use as described in the NZS 8409 Management of Agrichemicals must be kept. BEWARE: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants.
<b>Conditions for safe storage, including any incompatibilities</b>	Keep out of reach of children. Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs, fertilisers and seeds. Storage must be in accordance with NZS 8409 Management of Agrichemicals. Stores containing 100L of AGRITONE 750 require secondary containment and are subject to signage, and more than 100L require emergency response plans.
<b>Other Information</b>	Always read the label and any attached leaflet before use. Aggregate Storage Volume Thresholds: When stored with substances of the same hazard classification the aggregate quantity must be considered. For full details refer to the current NZS8409 Management of Agrichemicals and the HSNO Regulations.

## 8. Exposure controls/personal protection

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<b>Occupational exposure limit values</b>	No exposure limits have been set for this product. WES TWA for dimethylamine = 10ppm and 18mg/m <sup>3</sup>
<b>Appropriate engineering controls</b>	No special ventilation required. When working with the concentrate in confined spaces, it is recommended that forced ventilation be used to remove traces of dimethylamine vapour from the working atmosphere.
<b>Personal Protective Equipment</b>	When opening the container, preparing spray and using the prepared spray wear safety goggles, waterproof gloves, cotton overalls buttoned to the neck and wrist, and boots.
<b>Hygiene Measures</b>	Do not eat, drink or smoke while using. Remove protective clothing and wash hands and face thoroughly before meals and after work. Wash protective clothing daily after work.

## 9. Physical and chemical properties

<b>Form</b>	Liquid
<b>Appearance</b>	Dark brown liquid
<b>Odour</b>	'Ammonia like' odour
<b>Boiling Point</b>	>100°C (water)
<b>Solubility in Water</b>	Soluble
<b>Specific Gravity</b>	1.18g/mL
<b>pH</b>	9 - 10
<b>Vapour Pressure</b>	MCPA (DMA salt) considered practically non-volatile
<b>Flammability</b>	Non flammable
<b>Other Information</b>	(SL) Soluble concentrate

## 10. Stability and reactivity

<b>Chemical Stability</b>	Stable under normal conditions of handling and storage.
<b>Possibility of hazardous reactions</b>	May react violently with strong oxidising material such as chlorine. If strong alkalis such as caustic soda are added, dimethylamine vapour will be released. Dimethylamine is moderately toxic, LD50 (oral, rat) 700 mg/kg and a TLV of 10ppm (TWA). Dimethylamine vapour is heavier than air and flammable. The addition of strong acids will precipitate MCPA acid as a solid. This will reduce the efficacy of the herbicide and cause blockages of the spray equipment.
<b>Hazardous Polymerization</b>	Not known to occur.

## 11. Toxicological Information

<b>Toxicology Information</b>	MPCA TECHNICAL: MPCA is considered to be of moderate toxicity to man. There have been very few reported acute toxic effects on users over many years. Several deaths have been recorded, but all of these have been deliberate suicide, generally using the sodium salt.
<b>Acute Toxicity - Oral</b>	LD50 (rats): 700 - 1,160mg/kg for MCPA technical LD50 (mouse): 439mg/kg for MCPA technical
<b>Acute Toxicity - Dermal</b>	LD50 (rats): >4,000 mg/kg for MCPA technical
<b>Acute Toxicity - Inhalation</b>	LC50 (rat, 4h): >6.36mg/L for MCPA technical
<b>Ingestion</b>	The concentrate is considered harmful if swallowed. The spray solution is not considered a significant hazard due to the relatively low toxicity of the diluted product.
<b>Inhalation</b>	Not considered a serious hazard because MCPA (dimethylamine salt) is practically non-volatile; however, inhalation of spray mists should be avoided.

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<b>Skin</b>	The concentrate may cause irritation.
<b>Eye</b>	The concentrate may cause severe irritation and probable damage if contact is prolonged.
<b>Chronic Effects</b>	Liver and kidney damage has been noted in laboratory animals but only after excessive doses. Acute Over Exposure: Headache, nausea and vomiting with possible twitches and spasms in extreme cases.
<b>Other Information</b>	The Australian Acceptable Daily Intake (ADI) for MCPA for a human is 0.01 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 1.1 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 2013).

## 12. Ecological information

<b>Persistence and degradability</b>	In soil, MCPA is degraded to 4-chloro-2-methylphenol, followed by ring hydroxylation and ring opening. DT50 <7days after initial 'lag phase'. Duration of residual activity in soil c.3-4 months, following an application rate of 3kg/ha.
<b>Environmental Fate</b>	In animals, MCPA is rapidly absorbed and excreted almost exclusively in the urine, with only a small proportion in the faeces.
<b>Bioaccumulative Potential</b>	MCPA is not bioaccumulative. BCF (trout) = <1
<b>Environmental Protection</b>	Do not contaminate dams, rivers or streams with pesticide or used containers.
<b>Acute Toxicity - Fish</b>	LC50 (rainbow trout, 96h): 89mg/L for MCPA DMA salt
<b>Acute Toxicity - Daphnia</b>	LC50 (daphnia, 48h): >190 mg/L for MCPA technical
<b>Acute Toxicity - Algae</b>	EC50 (Navicula pelliculosa, 96h) = 0.21mg/L for MCPA technical
<b>Acute Toxicity - Other Organisms</b>	LD50 (bobwhite quail): 377mg/kg for MCPA technical LD50 (bee): 104µg/bee for MCPA technical LD50 (worm, 14d): 325mg/kg soil for MCPA technical

## 13. Disposal considerations

<b>Product Disposal</b>	Dispose of product only by using according to the label, or at an approved landfill.
<b>Container Disposal</b>	Triple rinse empty container and add rinsate to spray tank. Recycle empty container. Otherwise crush and bury in a suitable landfill.

## 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>U.N. Number</b>	3082
<b>UN proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (MCPA, 75%)
<b>Transport hazard class(es)</b>	9
<b>Hazchem Code</b>	2X
<b>Packaging Method</b>	-
<b>Packing Group</b>	III
<b>EPG Number</b>	-
<b>IERG Number</b>	47
<b>IMO Marine Pollutant</b>	Yes. Environmentally Hazardous Substance mark required.

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Product Name **AGRITONE 750®****IMDG EMS** F-A, S-F**Other Information** Do not carry this product on a passenger service vehicle.  
Segregation: Check the latest Land Transport Rule Dangerous Goods Rule 45001 for additional information. Sea transport may require additional segregation. Refer NZS5433 sea segregation for details.

## 15. Regulatory information

**National and or International Regulatory Information** Registered pursuant to the ACVM Act 1997, No. P7493  
See [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) for registration conditions  
Approved pursuant to the HSNO Act 1996, Approval Code HSR000381  
See [www.epa.govt.nz](http://www.epa.govt.nz) for approval controls.  
**Packaging & Labelling** HARMFUL \* CORROSIVE \* ECOTOXIC - keep out of reach of children  
**Hazard Rating Systems** NFPA/HMIS: 2-1-1

## 16. Other Information

**Date of preparation or last revision of SDS** December 2018**Contact Person/Point** IN AN EMERGENCY, DIAL 111 - FIRE OR POLICE  
24Hr Tollfree Emergency No: 0800 651 911  
24Hr Emergency No: National Poisons Centre Phone: 0800 764 766**Revisions Highlighted** 5 yearly review carried out.

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