



Infosafe No™ 3NUDD	Issue Date : November 2013	ISSUED by NUFARMNZ
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Product Name **AGRITONE 750®**

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

Product Name AGRITONE 750®
Product Code 00066
Product Use 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.
Company Name Nufarm NZ
Address 6 Manu Street, Otahuhu
Auckland 2024 New Zealand
Emergency Tel. 0800 651 911
Telephone Number/Fax Tel: 0-9-270 4150
Fax: 0-9-270 4159
Product Type Selective herbicide
Email info@nz.nufarm.com
Other Information 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. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization	Liquid		
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

3. HAZARDS IDENTIFICATION

Chronic Effects 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.

Inhalation Not considered a serious hazard because MCPA (dimethylamine salt) is practically non-volatile; however, inhalation of spray mists should be avoided.

Ingestion 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.

Skin The concentrate may cause irritation.

Eye The concentrate may cause severe irritation and probable damage if contact is prolonged.

Other Information 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,
TOXICITY
Toxic - may cause liver damage from repeated oral exposure at high doses.
May be harmful if swallowed, inhaled or absorbed through the skin.
CORROSIVE
Danger - this product is corrosive and may cause eye damage.
ECOTOXIC
Very toxic to aquatic organisms.
Selective herbicide - very toxic to some plant species.
Toxic to terrestrial vertebrates.

4. FIRST AID MEASURES

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

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Inhalation	attention. 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.
Ingestion	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.
Skin	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.
Eye	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.
First Aid Facilities	Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.
Advice to Doctor	Treat according to symptoms.

5. FIRE FIGHTING MEASURES

Extinguishing Media	Choose extinguishing media to suit the burning material. Water fog, foam, carbon dioxide or dry chemical.
Specific Methods	Keep up wind. Do not allow washings to reach sewage or effluent systems. Keep containers cool with water spray.
Specific Hazards	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.
Protective Equipment	Full protective clothing and self-contained breathing apparatus.
Flammability	Non flammable
Other Information	Location Certificate: Not applicable Hazardous Atmosphere Zone: Not applicable Number of Fire Extinguishers: Not applicable

6. ACCIDENTAL RELEASE MEASURES

Spills & Disposal	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.
Personal Protection	For appropriate personal protective equipment (PPE), refer Section 8.
Environmental Precautions	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

Handling	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.
Storage	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.
Packaging	HARMFUL * CORROSIVE * ECOTOXIC - keep out of reach of children
Other Information	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.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards	No exposure limits have been set for this product. WES TWA for dimethylamine = 10ppm and 18mg/m ³
Personal Protective Equipment	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.
Eng. Controls	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.
Hygiene Measures	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

Appearance	Dark brown liquid
Odour	'Ammonia like' odour
Boiling Point	>100°C (water)
Solubility in Water	Soluble
Specific Gravity (H2O=1)	1.18g/mL
pH Value	9 - 10
Vapour Pressure	MCPA (DMA salt) considered practically non-volatile
Flammability	Non flammable
Other Information	(SL) Soluble concentrate

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions of handling and storage.
Hazardous Polymerization	Not known to occur.
Hazardous Reaction	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.

11. TOXICOLOGICAL INFORMATION

Toxicology Information	MCPA TECHNICAL: MCPA 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.
Inhalation	Not considered a serious hazard because MCPA (dimethylamine salt) is practically non-volatile; however, inhalation of spray mists should be avoided.
Ingestion	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.
Skin	The concentrate may cause irritation.
Eye	The concentrate may cause severe irritation and probable damage if contact is prolonged.
Chronic Effects	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.
Acute Toxicity - Oral	LD50 (rats): 700 - 1,160mg/kg for MCPA technical LD50 (mouse): 439mg/kg for MCPA technical

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Acute Toxicity - Dermal	LD50 (rats): >4,000 mg/kg for MCPA technical
Acute Toxicity - Inhalation	LC50 (rat, 4h): >6.36mg/L for MCPA technical
Other Information	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

Environ. Protection	Do not contaminate dams, rivers or streams with pesticide or used containers.
Persistence / Degradability	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.
Bioaccumulation	MCPA is not bioaccumulative. BCF (trout) = <1
Acute Toxicity - Fish	LC50 (rainbow trout, 96h): 89mg/L for MCPA DMA salt
Acute Toxicity - Daphnia	LC50 (daphnia, 48h): >190 mg/L for MCPA technical
Acute Toxicity - Algae	EC50 (Navicula pelliculosa, 96h) = 0.21mg/L for MCPA technical
Acute Toxicity - Other Organisms	LD50 (bobwhite quail): 377mg/kg for MCPA technical LD50 (bee): 104µg/bee for MCPA technical LD50 (worm, 14d): 325mg/kg soil for MCPA technical
Environmental Fate	In animals, MCPA is rapidly absorbed and excreted almost exclusively in the urine, with only a small proportion in the faeces.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

U.N. Number	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs. 3082
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (MCPA, 75%)
DG Class	9
Hazchem Code	2X
Packaging Method	-
Packing Group	III
EPG Number	-
IERG Number	47
IMO Marine Pollutant	Yes. Environmentally Hazardous Substance mark required.
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

Packaging & Labelling	HARMFUL * CORROSIVE * ECOTOXIC - keep out of reach of children
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Hazard Rating NFPA/HMIS: 2-1-1
Systems
Hazard Category HARMFUL * CORROSIVE * ECOTOXIC - Keep out of reach of children
National Legislation Registered pursuant to the ACVM Act 1997, No. P7493
See www.foodsafety.govt.nz for registration conditions
Approved pursuant to the HSNO Act 1996, Approval Code HSR000381
See www.epa.govt.nz for approval controls.
UK Legislation info@nz.nufarm.com

16. OTHER INFORMATION

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
SDS History September 2008
Revisions 5 yearly review carried out. Various changes and updates made to document.
Highlighted
Hazard Category HARMFUL * CORROSIVE * ECOTOXIC - Keep out of reach of children
...End Of MSDS...

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