

Infosafe No™ 3NUAA	Issue Date : August 2017	ISSUED by NUFARMNZ
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Product Name **FLOWABLE ATRAZINE 500**

1. Identification

GHS Product Identifier	FLOWABLE ATRAZINE 500
Product Code	00248
Product Type	Herbicide
Company Name	Nufarm NZ
Address	6 Manu Street, Otahuhu Auckland 2024 New Zealand
Telephone/Fax Number	Tel: 0-9-270 4150 Fax: 0-9-270 4159
Emergency phone number	0800 651 911
Email	info@nz.nufarm.com
Recommended use of the chemical and restrictions on use	Residual herbicide for the control of certain broadleaf weeds and seedling grasses in maize, sweetcorn, linseed and established lucerne.
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. Hazard Identification

Other Information	6.1D acute toxicant, 6.9B target organ toxicant, 9.1A aquatic toxicant, 9.2A soil toxicant, 9.3C terrestrial vertebrate toxicant, TOXICITY Harmful - may be harmful if swallowed, inhaled or absorbed through the skin. May cause organ damage from repeated oral exposure at high doses. ECOTOXIC Very toxic to aquatic organisms. Selective herbicide - very toxic to some plant species. Harmful to terrestrial vertebrates.
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3. Composition/information on ingredients

Chemical Characterization	Liquid		
Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Atrazine	1912-24-9	500 g/L
	Ingredients determined to be non-hazardous	-	To volume

4. First-aid measures

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 attention.
Inhalation	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 contact	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 symptomatically.

Infosafe No™ 3NUAA	Issue Date : August 2017	ISSUED by NUFARMNZ
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5. Fire-fighting measures

Suitable extinguishing media	If involved in a fire, the product will not burn. Choose extinguishing media to suit the burning material. Water fog, foam, carbon dioxide or dry chemical.
Hazards from Combustion Products	If involved in a fire, the dehydrated components may emit toxic fumes of cyanide and hydrogen chloride.
Special Protective Equipment for fire fighters	Full protective clothing and self-contained breathing apparatus.
Specific Methods	Keep up wind. Do not allow washings to reach sewage or effluent systems.
Specific hazards arising from the chemical	Considered low risk due to water content, however upon evaporation of water the product is combustible.
Hazchem Code	2X
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 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.

7. Handling and storage

Precautions for Safe Handling	Avoid skin and eye contact and inhalation of spray mist. APPROVED HANDLER: This product must be under the control of an approved handler when applied in a wide dispersive manner; or used by a commercial contractor. TRACKING: Is not required RECORD KEEPING: Records of use as described in NZS 8409 Management of Agrichemicals must be kept if 3L or more is applied within 24 hours. BEWARE: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants.
Conditions for safe storage, including any incompatibilities	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 FLOWABLE ATRAZINE 500 require secondary containment and are subject to signage, and more than 100L require emergency response plans.
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 HSN0 Regulations.

8. Exposure controls/personal protection

Occupational exposure limit values	No exposure limits (WES, TEL or EEL's) have been specifically assigned for this product. WES TWA for atrazine = 5 mg/m ³
Appropriate engineering controls	Handle in well ventilated areas, generally natural ventilation is adequate.
Personal Protective Equipment	When opening the container, preparing spray and using the prepared spray wear waterproof gloves, safety goggles, cotton overalls buttoned to the neck and wrist, and boots. Respiratory protection while spraying is recommended.
Hygiene Measures	Do not eat, drink or smoke while using.

Infosafe No™ 3NUAA	Issue Date : August 2017	ISSUED by NUFARMNZ
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Product Name **FLOWABLE ATRAZINE 500**

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

Form	Liquid
Appearance	White suspension
Odour	Non-specific
Melting Point	<0°C
Boiling Point	>100°C
Solubility in Water	Disperses in water
Specific Gravity	1.1
pH	6-9
Vapour Pressure	3.85 x 10 ⁻² mPa @ 25°C (for atrazine)
Flash Point	None
Flammability	Non flammable
Oxidising Properties	Not an oxidizer
Other Information	(SC) Suspension Concentrate

10. Stability and reactivity

Chemical Stability	Stable under normal conditions of handling and storage.
Incompatible Materials	Avoid mixing with strong acids, alkalis, and oxidising agents such as chlorine compounds, ammonium nitrate, etc.
Possibility of hazardous reactions	Keep away from strong oxidising agents, may react violently. Products arising from combustion or thermal decomposition may be toxic, corrosive or flammable.
Hazardous Polymerization	Hazardous polymerisation will not occur.

11. Toxicological Information

Toxicology Information	No harmful effects are expected if the precautions on the label and this SDS are followed.
Acute Toxicity - Oral	LD50 (rat) 1,869 - 3,090 mg/kg for atrazine LD50 (mice) 1,332 - 3,992 mg/kg for atrazine LD50 (rabbit) 750mg/kg for atrazine LD50 (rat) >2000 mg/kg for atrazine
Acute Toxicity - Dermal	
Acute Toxicity - Inhalation	LC50 (rat) (4hr) >5.8 mg/l for atrazine
Ingestion	Amounts swallowed incidental to normal handling procedures and use are not expected to cause injury.
Inhalation	Some temporary irritation may be experienced.
Skin	May irritate the skin. May cause sensitisation by prolonged skin contact.
Eye	May irritate the eyes.
Skin Sensitisation	Prolonged and repeated skin contact may result in skin sensitisation.
Reproductive Toxicity	Data indicates no reproductive effects. Data indicates no teratogenic effects.
Serious eye damage/irritation	Not an eye irritant.
Mutagenicity	The weight of evidence indicates that atrazine does not present a mutagenic risk.
Skin corrosion/irritation	Mild skin irritant.

Infosafe No™ 3NUAA	Issue Date :August 2017	ISSUED by NUFARMNZ
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Subchronic/Chronic Toxicity Target organ toxicant: Non-specific target organ effects. Ingestion at high doses is damaging to various organs - liver, kidney, lungs spleen, etc

Other Information The Australian Acceptable Daily Intake (ADI) for atrazine for a human is 0.005 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 0.5 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', December 2014).

12. Ecological information

Persistence and degradability Average field half life of atrazine is 35 - 50 days. This may be longer under cold or dry conditions. Atrazine is not rapidly degradable. Kow LogP = 2.5 @ 25°C

Bioaccumulative Potential Atrazine is not bioaccumulative. BCF <0.27 - 132

Other Precautions Do not contaminate streams, rivers or waterways with the chemical or used containers.

Acute Toxicity - Fish LC50 (96h) sheepshed minnow is 1.21 - 2.80mg/L for atrazine
LC50 (96h) for rainbow trout is 4.5 - 11.0mg/L for atrazine

Acute Toxicity - Daphnia LC50 (48hr) for daphnia is >29 mg/l for atrazine.

Acute Toxicity - Other Organisms LD50 bobwhite quail is 940mg/kg for atrazine
LD50 bees (oral)is >97µg/bee and (contact) >100µg/bee for atrazine

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

Transport Information It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.

U.N. Number 3082

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (atrazine, 50%)

Transport hazard class(es) 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 more than 10L of FLOWABLE ATRAZINE 500 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. P8594
See www.foodsafety.govt.nz for registration conditions
Approved pursuant to the HSNO Act 1996, Approval Code HSR000534
See www.epa.govt.nz for approval controls.

Packaging & Labelling HARMFUL * ECOTOXIC - keep out of reach of children



Safety Data Sheet

infosafe
CS: 1.7.2

Page: 5 of 5

Infosafe No™ 3NUAA Issue Date : August 2017 ISSUED by NUFARMNZ

Product Name **FLOWABLE ATRAZINE 500**

Hazard Rating NFPA/HMIS: 1-1-1
Systems

16. Other Information

Date of preparation July 2012
or last revision of
SDS

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 5 yearly review carried out. Various changes and updates made to document.

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...End Of MSDS...

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