

Infosafe No™ 3NUAA	Issue Date : August 2019	ISSUED by NUFARM
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 Product Name **FLOWABLE ATRAZINE 500**

## 1. Identification

<b>GHS Product Identifier</b>	FLOWABLE ATRAZINE 500
<b>Product Code</b>	00248
<b>Product Type</b>	Herbicide
<b>Company Name</b>	Nufarm NZ
<b>Address</b>	6 Manu Street, Otahuhu Auckland 2024 New Zealand
<b>Telephone/Fax Number</b>	Tel: 0-9-270 4150
<b>Emergency phone number</b>	0800 651 911
<b>Email</b>	nzinfo@nufarm.com
<b>Recommended use of the chemical and restrictions on use</b>	Residual herbicide for the control of certain broadleaf weeds and seedling grasses in maize, sweetcorn, linseed and established lucerne.
<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>Signal Word (s)</b>	WARNING
<b>Hazard Statement (s)</b>	H302 Harmful if swallowed. H373 May cause damage to kidney through repeated oral exposure. H410 Very toxic to aquatic life with long lasting effects. H421 Very toxic to the soil environment H432 Very toxic to terrestrial vertebrates
<b>General Precautionary Statement (s)</b>	P102 Keep out of reach of children. P103 Read label before use.
<b>Pictogram (s)</b>	Exclamation mark, Health hazard, Environment,



<b>Precautionary statement – Prevention</b>	P101 If medical advice is needed, have product container or label at hand. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P264 Wash face and hands 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. P314 Get medical advice/attention if you feel unwell. P330 Rinse mouth. P391 Collect spillage.
<b>Other Information</b>	6.1D acute toxicant, 6.9B target organ toxicant, 9.1A aquatic toxicant, 9.2A soil toxicant, 9.3C terrestrial vertebrate toxicant, TOXICITY Warning-Harmful if swallowed. May cause kidney damage through repeated oral exposure. ECOTOXIC Very toxic to aquatic life with long lasting effects. Selective herbicide- Very toxic to the soil environment. Toxic to terrestrial vertebrates.

## 3. Composition/information on ingredients

<b>Chemical Characterization</b>	Liquid
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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.

## 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

**Decomposition Temp.** Not determined.

**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** The person mixing or applying this product must be a 'Qualified Contractor' or a 'Qualified Person'. The spray mixture may also be prepared by a 'Qualified Loader'. For more information refer to the Hazardous Substances (Hazardous Property Controls) Notice 2017.  
Avoid skin and eye contact and inhalation of spray mist.  
CERTIFIED HANDLER: Not required.  
TRACKING: Is not required.

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<b>Conditions for safe storage, including any incompatibilities</b>	<p>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.</p> <p>BEWARE: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants.</p> <p>Keep out of reach of children.</p> <p>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.</p> <p>Stores containing 100L of FLOWABLE ATRAZINE 500 require secondary containment and are subject to signage, and more than 100L require emergency response plans.</p>
<b>Other Information</b>	<p>Always read the label and any attached leaflet before use.</p> <p>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.</p>

## 8. Exposure controls/personal protection

<b>Occupational exposure limit values</b>	No exposure limits (WES, TEL or EEL's) have been specifically assigned for this product.
<b>Appropriate engineering controls</b>	WES TWA for atrazine = 5 mg/m <sup>3</sup> Handle in well ventilated areas, generally natural ventilation is adequate.
<b>Personal Protective Equipment</b>	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.
<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>	White suspension
<b>Odour</b>	Non-specific
<b>Decomposition</b>	Not determined.
<b>Temperature</b>	
<b>Melting Point</b>	<0°C
<b>Boiling Point</b>	>100°C
<b>Solubility in Water</b>	Disperses in water
<b>Specific Gravity</b>	1.1
<b>pH</b>	6-9
<b>Vapour Pressure</b>	3.85 x 10 <sup>-2</sup> mPa @ 25°C (for atrazine)
<b>Vapour Density (Air=1)</b>	Not determined.
<b>Partition Coefficient: n-octanol/water</b>	Kow LogP =2.5 (25°C) for Atrazine technical.
<b>Flash Point</b>	None
<b>Flammability</b>	Non flammable
<b>Auto-Ignition Temperature</b>	Not applicable.
<b>Flammable Limits - Lower</b>	Not applicable.
<b>Flammable Limits - Upper</b>	Not applicable.
<b>Oxidising Properties</b>	Not an oxidizer
<b>Initial boiling point and boiling range</b>	Not determined.

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**Kinematic Viscosity** Not determined.  
**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.

**Germ cell mutagenicity** Information not available.

**Carcinogenicity** Information not available.

**Reproductive Toxicity** Data indicates no reproductive effects.  
 Data indicates no teratogenic effects.

**STOT-repeated exposure** May cause kidney damage through repeated oral exposure.

**Aspiration Hazard** Information not available.

**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.

**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.

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

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<b>Other Precautions</b>	Do not contaminate streams, rivers or waterways with the chemical or used containers.
<b>Acute Toxicity - Fish</b>	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
<b>Acute Toxicity - Daphnia</b>	LC50 (48hr) for daphnia is >29 mg/l for atrazine.
<b>Acute Toxicity - Other Organisms</b>	LD50 bobwhite quail is 940mg/kg for atrazine LD50 bees (oral) is >97µg/bee and (contact) >100µg/bee for atrazine

### 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. - (atrazine, 50%)
<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.
<b>IMDG EMS</b>	F-A, S-F
<b>Other Information</b>	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

<b>National and or International Regulatory Information</b>	Registered pursuant to the ACVM Act 1997, No. P8594 See <a href="http://www.foodsafety.govt.nz">www.foodsafety.govt.nz</a> for registration conditions Approved pursuant to the HSNO Act 1996, Approval Code HSR000534 See <a href="http://www.epa.govt.nz">www.epa.govt.nz</a> for approval controls.
<b>Packaging &amp; Labelling</b>	HARMFUL * ECOTOXIC - keep out of reach of children
<b>Hazard Rating Systems</b>	NFPA/HMIS: 1-1-1

### 16. Other Information

<b>Date of preparation or last revision of SDS</b>	July 2012
<b>Contact Person/Point</b>	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
<b>Revisions Highlighted</b>	SDS reviewed to incorporate GHS updates. ...End Of MSDS...



# Safety Data Sheet

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