

Infosafe No™ 3NUAA	Issue Date : May 2024	ISSUED by NUFARMNZ
Product Name FLOWABLE ATRAZINE 500		

Section 1 - Identification

Product Identifier	FLOWABLE ATRAZINE 500
Product Code	00248
Product Type	Herbicide
Company Name	Nufarm NZ
Address	Central Park, Building 3, Level 4, 666 Great South Road Ellerslie Auckland 1051 New Zealand
Telephone/Fax Number	Tel: 0-9-270 4150
Emergency Phone Number	0800 651 911
Email	nzinfo@nufarm.com
Recommended uses and any restrictions on use or supply	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.

Section 2 - Hazard(s) Identification

GHS classification of the substance/mixture	Acute oral toxicity: Category 4 Specific target organ toxicity - repeated exposure: Category 2 Hazardous to the terrestrial environment: Hazardous to soil organisms Hazardous to the terrestrial environment: Hazardous to terrestrial vertebrates Hazardous to the aquatic environment acute Category 1 Hazardous to the aquatic environment chronic Category 1
Signal Word (s)	WARNING
Hazard Statement (s)	H302 Harmful if swallowed. H373 May cause damage to kidneys through prolonged or repeated exposure. H410 Very toxic to aquatic life with long lasting effects. H421 Very toxic to the soil environment. H433 Harmful to terrestrial vertebrates.
Precautionary Statement – General	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Read carefully and follow all instructions.
Pictogram (s)	Health hazard, Environment



Precautionary Statement – Prevention	P260 Do not breathe dust/fume/gas/mist/vapours/spray. P264 Wash hands and face thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P273 Avoid release to the environment.
Precautionary Statement – Response	P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. P314 Get medical advice/attention if you feel unwell. P330 Rinse mouth. P391 Collect spillage.
Precautionary Statement – Disposal	P501 Dispose of contents/container to an approved landfill.

Section 3 - Composition and Information on Ingredients

Infosafe No™ 3NUAA	Issue Date : May 2024	ISSUED by NUFARMNZ
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Product Name **FLOWABLE ATRAZINE 500**

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

Section 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	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.

Section 5 - Firefighting 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 Temperature	Information is not available.
Other Information	Location Certificate: Not applicable Hazardous Atmosphere Zone: Not applicable Number of Fire Extinguishers: Not applicable

Section 6 - Accidental Release Measures

Spills and 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.

Infosafe No™ 3NUAA	Issue Date : May 2024	ISSUED by NUFARMNZ
--------------------	-----------------------	--------------------

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Section 7 - Handling and Storage

Precautions for Safe Handling	<p>The person mixing or applying FLOWABLE ATRAZINE 500 must be a 'Qualified Contractor' or a 'Qualified Person'. The spray mixture may also be prepared by a 'Qualified Loader'. It is the duty of the PCBU that a person who uses, handles, manufactures or stores a hazardous substance (including hazardous waste) is provided information, instruction and training in accordance with Regulation 4.5 of the Health and Safety at work (Hazardous Substances) Regulations 2017.</p> <p>Avoid skin and eye contact and inhalation of spray mist. This product must not be applied onto or into water.</p> <p>BEWARE: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants.</p> <p>CERTIFIED HANDLER: Is not required.</p> <p>TRACKING: Is not required.</p> <p>RECORD KEEPING: Records of use as described in NZS 8409 Management of Agrichemicals must be kept if 3 litres or more of FLOWABLE ATRAZINE 500 is applied within 24 hours. Records must be kept for a minimum of 3 years from application date.</p>
Conditions for safe storage, including any incompatibilities	<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>
Other Information	<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>

Section 8 - Exposure Controls and Personal Protection

Occupational Exposure Limits (OEL)	<p>No exposure limits (WES, TEL or EEL's) have been specifically assigned for this product.</p> <p>WES TWA for atrazine = 5 mg/m³</p>
Appropriate Engineering Controls	<p>Handle in well ventilated areas, generally natural ventilation is adequate.</p>
Personal Protective Equipment	<p>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.</p> <p>Respiratory protection while spraying is recommended.</p>
Hygiene Measures	<p>Do not eat, drink or smoke while using.</p> <p>Remove protective clothing and wash hands and face thoroughly before meals and after work. Wash protective clothing daily after work.</p>

Section 9 - Physical and Chemical Properties

Form	Liquid
Appearance	White suspension.
Odour	Information is not available.
Decomposition Temperature	Information is not available.
Melting Point	<0°C
Boiling Point	>100°C
Solubility in Water	Disperses in water.
Specific Gravity	1.1
pH	6-9

Infosafe No™ 3NUAA	Issue Date : May 2024	ISSUED by NUFARMNZ
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Vapour Pressure	3.85 x 10 ⁻² Pa (25°C) for active ingredient atrazine.
Vapour Density (Air=1)	Information is not available.
Odour Threshold	Information is not available.
Partition Coefficient: n-octanol/water	Kow LogP = 2.5 (25°C) for active ingredient atrazine.
Flash Point	Information is not available.
Flammability	Non flammable.
Auto-ignition Temperature	Information is not available.
Flammable Limits - Lower	Information is not available.
Flammable Limits - Upper	Information is not available.
Oxidising Properties	Not an oxidizer.
Kinematic Viscosity	Information is not available.
Particle Characteristics	Information is not available.
Other Information	(SC) Suspension Concentrate

Section 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.

Section 11 - Toxicological Information

Acute Toxicity - Oral	LD50 (rats) 1869-3090mg/kg for active ingredient atrazine.
Acute Toxicity - Inhalation	LC50 (4h, rats) >5.8mg/L air for active ingredient atrazine.
Acute Toxicity - Dermal	LD50 (rats) >2000mg/kg for active ingredient atrazine.
Skin Corrosion/Irritation	Non-irritating to skin (rabbits) for active ingredient atrazine.
Serious Eye Damage/Irritation	Minimally irritating to eyes (rabbits) for active ingredient atrazine.
Skin Sensitisation	Active ingredient atrazine is a skin sensitiser in guinea pigs, but not in humans. Overall conclusion: atrazine is a skin sensitiser.
Germ Cell Mutagenicity	Information is not available.
Carcinogenicity	Information is not available.
Reproductive Toxicity	Information is not available.
STOT - Single Exposure	Information is not available.
STOT - Repeated Exposure	May cause damage to kidneys through prolonged or repeated exposure.
Aspiration Hazard	Information is not available.

Infosafe No™ 3NUAA	Issue Date : May 2024	ISSUED by NUFARMNZ
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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: Aust Govt Dept. of APVMA, 'ADI List', Edition 1/2024).

Section 12 - Ecological Information

Persistence and Degradability Field DT50 16-1174d (median 38.5d), they longer values being from colder or dry conditions for active ingredient atrazine.

Mobility Information is not available.

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

Acute Toxicity - Fish LC50 (96h) for rainbow trout is 11.0mg/L for active ingredient atrazine.

Acute Toxicity - Daphnia EC50 (48h) >/=29 for active ingredient atrazine.

Acute Toxicity - Algae EC50 (72h) for Scenedesmus subspicatus is 0.043mg/L for active ingredient atrazine.

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

Section 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.

Section 14 - Transport Information

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

UN Number 3082

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (atrazine)

Hazard 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 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.

Section 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.

Infosafe No™ 3NUAA Issue Date : May 2024 ISSUED by NUFARMNZ

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Packaging and Labelling KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Section 16 - Any Other Relevant Information

Date of preparation or last revision of SDS August 2019.

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. Various changes and updates made to the document to comply with GHS7.
...End Of MSDS...

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