

Infosafe No™ 3NUAB	Issue Date : November 2024	ISSUED by NUFARMNZ
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 Product Name **NU-TRAZINE 900DF**

## Section 1 - Identification

<b>Product Identifier</b>	NU-TRAZINE 900DF
<b>Product Code</b>	00268
<b>Product Type</b>	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>Email</b>	nzinfo@nufarm.com
<b>Recommended uses and any restrictions on use or supply</b>	Residual herbicide for the control of certain broadleaf weeds 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.

## Section 2 - Hazard(s) Identification

<b>GHS classification of the substance/mixture</b>	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
<b>Signal Word (s)</b>	WARNING
<b>Hazard Statement (s)</b>	H302 Harmful if swallowed. H373 May cause damage to organs 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.
<b>Precautionary Statement – General</b>	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.
<b>Pictogram (s)</b>	Exclamation mark, Health hazard, Environment



<b>Precautionary Statement – Prevention</b>	P260 Do not breathe dust/fume/gas/mist/vapours/spray. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P273 Avoid release to the environment.
<b>Precautionary Statement – Response</b>	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.
<b>Precautionary Statement – Disposal</b>	P501 Dispose of contents/container to an approved landfill.

## Section 3 - Composition and Information on Ingredients

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**Chemical Characterization** Solid

Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Atrazine	1912-24-9	900 g/kg
	Ingredients determined to be non-hazardous	-	10 %

## Section 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.
<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</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 symptomatically.

## Section 5 - Firefighting Measures

<b>Suitable Extinguishing Media</b>	Water fog, foam, carbon dioxide or dry chemical.
<b>Hazards from Combustion Products</b>	Avoid strong water jets - airborne dusts may form a flammable dust cloud. If involved in a fire, it will emit cyanides, hydrogen chloride and possibly carbon oxides.
<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.
<b>Hazchem Code</b>	2X
<b>Decomposition Temperature</b>	Information is not available.
<b>Other Information</b>	Location Certificate: Not applicable Hazardous Atmosphere Zone: Not applicable Number of Fire Extinguishers: Not applicable

## Section 6 - Accidental Release Measures

<b>Spills and Disposal</b>	Wear protective clothing. Clear area of unprotected personnel. Eliminate all ignition sources. Sweep up solids without generating dust. 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.

## Section 7 - Handling and Storage

<b>Precautions for Safe Handling</b>	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
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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. Avoid skin and eye contact and inhalation of spray mist. This product must not be applied onto or into water.  
**BEWARE:** Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants.  
**CERTIFIED HANDLER:** Is not required.  
**TRACKING:** Is not required.  
**RECORD KEEPING:** Records of use as described in NZS 8409 Management of Agrichemicals must be kept if 3kg or more of Nu-Trazine 900DF is applied within 24 hours.

**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 100kg of Nu-Trazine 900DF are subject to signage, and more than 100kg 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 HSNO Regulations.

## Section 8 - Exposure Controls and Personal Protection

<b>Occupational Exposure Limits (OEL)</b>	No exposure limits (WES, TEL or EEL's) have been specifically assigned for this product. WES TWA for atrazine = 5 mg/m <sup>3</sup>
<b>Appropriate Engineering Controls</b>	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 is recommended in dusty conditions and when spraying.
<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.

## Section 9 - Physical and Chemical Properties

<b>Form</b>	Solid
<b>Appearance</b>	White granule.
<b>Odour</b>	Odourless.
<b>Decomposition Temperature</b>	Information is not available.
<b>Solubility in Water</b>	Disperses in water.
<b>pH</b>	Information is not available.
<b>Vapour Pressure</b>	3.85 x 10 <sup>-2</sup> mPa @ 25°C for active ingredient atrazine.
<b>Vapour Density (Air=1)</b>	Information is not available.
<b>Odour Threshold</b>	Information is not available.
<b>Volatile Component</b>	<1%
<b>Partition Coefficient: n-octanol/water</b>	Kow logP = 2.5 (25°C) for active ingredient atrazine.
<b>Density</b>	0.4 - 0.5kg/L

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<b>Flash Point</b>	Information is not available.
<b>Flammability</b>	Combustible.
<b>Auto-ignition Temperature</b>	Information is not available.
<b>Flammable Limits - Lower</b>	Information is not available.
<b>Flammable Limits - Upper</b>	Information is not available.
<b>Initial Boiling Point and Boiling Range</b>	B.p. 205.0°C/101kPa for active ingredient atrazine.
<b>Kinematic Viscosity</b>	Information is not available.
<b>Particle Characteristics</b>	Information is not available.
<b>Relative Density</b>	S.g./density 1.23 (22°C) for active ingredient atrazine.
<b>Melting/Freezing Point</b>	M.p. 175.8°C for active ingredient atrazine.
<b>Other Information</b>	(WG) Water Dispersible Granule

## Section 10 - Stability and Reactivity

<b>Chemical Stability</b>	Stable under normal conditions of handling and storage.
<b>Conditions to Avoid</b>	As for many organic powders or crystals, if a severe dusty condition occurs, this material may form explosive mixtures with air.
<b>Incompatible Materials</b>	Avoid mixing with strong acids, alkalis, and oxidising agents such as chlorine compounds, ammonium nitrate, etc.
<b>Possibility of Hazardous Reactions</b>	Keep away from strong oxidising agents, may react violently. Products arising from combustion or thermal decomposition may be toxic, corrosive or flammable.
<b>Hazardous Polymerization</b>	Hazardous polymerisation will not occur.

## Section 11 - Toxicological Information

<b>Toxicology Information</b>	No harmful effects are expected if the precautions on the label and this SDS are followed. No specific toxicological data is available for this product. Data below is for constituents.
<b>Acute Toxicity - Oral</b>	LD50 (rat) 1,869 - 3,090 mg/kg for atrazine LD50 (mice) >1,332 - 3,992 mg/kg for atrazine
<b>Acute Toxicity - Inhalation</b>	LC50 (rat) (4hr) >5.8 mg/l for atrazine
<b>Acute Toxicity - Dermal</b>	LD50 (rat) >2,000 mg/kg for atrazine
<b>Ingestion</b>	Amounts swallowed incidental to normal handling procedures and use are not expected to cause injury.
<b>Inhalation</b>	Some temporary irritation may be experienced.
<b>Skin</b>	May irritate the skin. May cause sensitisation by prolonged skin contact. Adverse symptoms may include redness & irritation.
<b>Eye</b>	May irritate the eyes.
<b>Skin Corrosion/Irritation</b>	Mild skin irritant.
<b>Serious Eye Damage/Irritation</b>	Not an eye irritant.
<b>Skin Sensitisation</b>	Prolonged and repeated skin contact may result in skin sensitisation.
<b>Germ Cell Mutagenicity</b>	Information is not available.

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<b>Carcinogenicity</b>	Information is not available.
<b>Reproductive Toxicity</b>	Information is not available.
<b>STOT - Single Exposure</b>	Information is not available.
<b>STOT - Repeated Exposure</b>	May cause damage to organs through prolonged or repeated exposure.
<b>Aspiration Hazard</b>	Information is not available.
<b>Subchronic/Chronic Toxicity</b>	Target organ toxicant: Non-specific target organ effects. Ingestion at high doses is damaging to various organs - liver, kidney, lungs spleen, etc
<b>Other Information</b>	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 4 /2023).

## Section 12 - Ecological Information

<b>Persistence and Degradability</b>	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
<b>Mobility</b>	Information is not available.
<b>Bioaccumulative Potential</b>	Atrazine is not bioaccumulative BCF <0.27 - 132
<b>Other Precautions</b>	Do not contaminate streams, rivers or waterways with the chemical or used containers.
<b>Acute Toxicity - Fish</b>	LC50 (96hr) for rainbow trout is 11.0mg/L for active ingredient atrazine.
<b>Acute Toxicity - Daphnia</b>	EC50 (48hr) for daphnia is >29 mg/l for atrazine.
<b>Acute Toxicity - Algae</b>	EC50 (72hr) for Scenedesmus subspicatus is 0.043mg/L for active ingredient atrazine.
<b>Acute Toxicity - Other Organisms</b>	LC50 (48h) brown shrimp = 1.0mg/L for active ingredient atrazine. LD50 bees (oral) is >97µg/bee and (contact) >100µg/bee for active ingredient atrazine. LC50 (14d) Disenia foetida is 78mg/kg soil for active ingredient atrazine.

## Section 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>	Ensure container is completely empty. Burn in an appropriate incinerator if circumstances, such as wind direction, permit. Otherwise crush and bury in an appropriate landfill.

## Section 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>UN Number</b>	3077
<b>Proper Shipping Name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. - (atrazine)
<b>Hazard Class</b>	9
<b>Hazchem Code</b>	2X
<b>Packaging Method</b>	-
<b>Packing Group</b>	III
<b>EPG Number</b>	-

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<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 10kg of Nu-Trazine 900DF 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

<b>National and or International Regulatory Information</b>	Registered pursuant to the ACVM Act 1997, No. P5821 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 HSR000465 See <a href="http://www.epa.govt.nz">www.epa.govt.nz</a> for approval controls.
<b>Packaging and Labelling</b>	KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING

## Section 16 - Any Other Relevant Information

<b>Date of preparation or last revision of SDS</b>	September 2022.
<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>	Various changes and updates made to the document to comply with GHS7. ...End Of MSDS...

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