

Infosafe No™ 3NUAB	Issue Date : August 2017	ISSUED by NUFARMNZ
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 Product Name **NU-TRAZINE 900DF**

## 1. Identification

<b>GHS 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>	6 Manu Street, Otahuhu Auckland 2024 New Zealand
<b>Telephone/Fax Number</b>	Tel: 0-9-270 4150 Fax: 0-9-270 4159
<b>Emergency phone number</b>	0800 651 911
<b>Email</b>	info@nz.nufarm.com
<b>Recommended use of the chemical and restrictions on use</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.

## 2. Hazard Identification

<b>Other Information</b>	6.1D acute toxicant, 6.3B skin irritant, 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 mild skin irritation. 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

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

## 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 contact</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

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**Advice to Doctor**      eyewash facility and safety shower.  
                                     Treat symptomatically.

## 5. Fire-fighting measures

**Suitable extinguishing media**      Water fog, foam, carbon dioxide or dry chemical.  
   Avoid strong water jets - airborne dusts may form a flammable dust cloud.

**Hazards from Combustion**      If involved in a fire, it will emit cyanides, hydrogen chloride and possibly carbon oxides.

**Products**

**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.

**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. 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.

**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 3kg 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.  
                                     This product must not be applied onto or into water.

**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.

## 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<sup>3</sup>

**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 is recommended in dusty conditions and when spraying.

**Hygiene Measures**      Do not eat, drink or smoke while using.  
                                     Remove protective clothing and wash hands and face thoroughly before meals

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and after work. Wash protective clothing daily after work.

## 9. Physical and chemical properties

<b>Form</b>	Solid
<b>Appearance</b>	White granule
<b>Odour</b>	Odourless
<b>Melting Point</b>	169-176°C for atrazine
<b>Solubility in Water</b>	Disperses in water
<b>Vapour Pressure</b>	3.85 x 10 <sup>-2</sup> mPa @ 25°C (for atrazine)
<b>Volatile Component</b>	<1%
<b>Partition Coefficient: n-octanol/water</b>	Kow log P is 2.5 for atrazine
<b>Density</b>	0.4 - 0.5kg/L
<b>Flammability</b>	Combustible
<b>Other Information</b>	(WG) Water Dispersible Granule

## 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.

## 11. Toxicological Information

<b>Toxicology Information</b>	No harmful effects are expected if the precautions on the label and this SDS are followed.
<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 - Dermal</b>	LD50 (rat) >2,000 mg/kg for atrazine
<b>Acute Toxicity - Inhalation</b>	LC50 (rat) (4hr) >5.8 mg/l 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 Sensitisation</b>	Prolonged and repeated skin contact may result in skin sensitisation.
<b>Reproductive Toxicity</b>	Data indicates no reproductive effects. Data indicates no teratogenic effects.
<b>Serious eye damage/irritation</b>	Not an eye irritant.
<b>Mutagenicity</b>	Data indicates no mutagenic effects.
<b>Skin corrosion/irritation</b>	Mild skin irritant.
<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

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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

<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>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 (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>	EC50 (48hr) for daphnia is >29 mg/l for atrazine.
<b>Acute Toxicity - Other Organisms</b>	LC50 (48h) brown shrimp = 1.0mg/L for atrazine LD50 bobwhite quail is 940mg/kg for atrazine LD50 bees (oral) is >97µg/bee and (contact) >100µg/bee for atrazine LC50 (14d) worms is 78mg/kg dry soil 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>	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.

## 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>	3077
<b>UN proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. - (atrazine, 90%)
<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 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.

## 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 &amp; Labelling</b>	HARMFUL * ECOTOXIC - keep out of reach of children



# Safety Data Sheet

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**Hazard Rating** NFPA/HMIS: 1-1-1  
**Systems**  
**Hazard Category** HARMFUL \* ECOTOXIC - Keep out of reach of children

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## 16. Other Information

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**Date of preparation or last revision of SDS** July 2012

**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 document.

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