

Infosafe No™ 3NUAB	Issue Date : September 2022	ISSUED by NUFARMNZ
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 Product Name **NU-TRAZINE 900DF**

1. Identification

GHS Product Identifier	NU-TRAZINE 900DF
Product Code	00268
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
E-mail Address	nzinfo@nufarm.com
Recommended use of the chemical and restrictions on use	Residual herbicide for the control of certain broadleaf weeds 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

GHS classification of the substance/mixture	DANGEROUS GOODS.
Other Information	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.

3. Composition/information on ingredients

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

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.

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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	Water fog, foam, carbon dioxide or dry chemical. Avoid strong water jets - airborne dusts may form a flammable dust cloud.
Hazards from Combustion Products	If involved in a fire, it will emit cyanides, hydrogen chloride and possibly carbon oxides.
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 ³
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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 and after work. Wash protective clothing daily after work.

9. Physical and chemical properties

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

10. Stability and reactivity

Chemical Stability	Stable under normal conditions of handling and storage.
Conditions to Avoid	As for many organic powders or crystals, if a severe dusty condition occurs, this material may form explosive mixtures with air.
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
Acute Toxicity - Dermal	LD50 (rat) >2,000 mg/kg for atrazine
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. Adverse symptoms may include redness & irritation.
Eye	May irritate the eyes.
Skin Sensitisation	Prolonged and repeated skin contact may result in skin sensitisation.

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Reproductive Toxicity	Data indicates no reproductive effects.
Serious eye damage/irritation	Data indicates no teratogenic effects.
Mutagenicity	Not an eye irritant.
Skin corrosion/irritation	Data indicates no mutagenic effects.
Subchronic/Chronic Toxicity	Mild skin irritant.
Other Information	Target organ toxicant: Non-specific target organ effects. Ingestion at high doses is damaging to various organs - liver, kidney, lungs spleen, etc
	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	EC50 (48hr) for daphnia is >29 mg/l for atrazine.
Acute Toxicity - Other Organisms	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

Product Disposal	Dispose of product only by using according to the label, or at an approved landfill.
Container Disposal	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

Transport Information	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.
U.N. Number	3077
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. - (atrazine, 90%)
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.

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IMDG EMS	F-A, S-F
Other Information	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

National and or International Regulatory Information	Registered pursuant to the ACVM Act 1997, No. P5821 See www.foodsafety.govt.nz for registration conditions Approved pursuant to the HSNO Act 1996, Approval Code HSR000465 See www.epa.govt.nz for approval controls.
Packaging & Labelling	HARMFUL * ECOTOXIC - keep out of reach of children
Hazard Rating Systems	NFPA/HMIS: 1-1-1

16. Other Information

Date of preparation or last revision of SDS	August 2017
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.
	...End Of MSDS...

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