

Infosafe No™ NU01H	Issue Date : October 2013	ISSUED by NUFARM
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 Product Name **DIURON 900DF Herbicide**

Classified as hazardous

1. Identification

GHS Product Identifier	DIURON 900DF Herbicide
Product Code	0328
Product Type	Group C Herbicide
Company Name	NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)
Address	103-105 Pipe Road Laverton North Victoria 3026 Australia
Telephone/Fax Number	Tel: +61 3 9282-1000 Fax: +61 3 9282-1001
Emergency phone number	1800 033 498 (24hr Australia)
Recommended use of the chemical and restrictions on use	For selective weed control in situations as per the Directions for Use table on the label.
Other Information	This Safety Data Sheet 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	Carcinogenicity: Category 2 STOT Repeated Exposure Category 2 Acute Toxicity - Oral: Category 4 Eye Damage/Irritation: Category 1 Skin Corrosion/Irritation: Category 2
Signal Word (s)	DANGER
Hazard Statement (s)	Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. Harmful if swallowed. Causes serious eye damage. Causes skin irritation.
General Precautionary Statement (s)	If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use.
Pictogram (s)	Corrosion, Exclamation mark, Health hazard



Precautionary statement – Prevention	Do not handle until all safety precautions have been read and understood. Do not breathe dust or spray. Wash hands and exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves, clothing, eye and face protection.
Precautionary statement – Response	IF EXPOSED OR CONCERNED: Get medical advice/attention. Get medical advice/attention if you feel unwell. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
Other Information	Poisons Schedule : Not Scheduled

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3. Composition/information on ingredients

Chemical	Solid		
Characterization			
Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Diuron	330-54-1	900 g/kg
	Dispersants		0-10 %

4. First-aid measures

Inhalation	Remove affected person to fresh air until recovered. If symptoms develop or persist, seek medical advice.
Ingestion	If swallowed do NOT induce vomiting; seek medical advice immediately and show this container or label or contact the Poisons Information Centre on 13 11 26 (Aust). Make every effort to prevent vomit from entering the lungs by careful placement of the patient.
Skin	Wash affected areas thoroughly with soap and water. Remove contaminated clothing and launder before re-use.
Eye contact	If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes. Seek medical advice.
Advice to Doctor	Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media	Water fog, foam, carbon dioxide or dry chemical.
Hazards from Combustion Products	Avoid strong water jets - airborne dusts may be an explosion hazard. If involved in a fire, it will emit oxides of carbon and nitrogen, cyanides, phosgene and possibly hydrogen chloride. Combustible solid.
Special Protective Equipment for fire fighters	Breathable air apparatus should be worn when fighting a fire in which diuron is involved.
Other Information	STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES.

6. Accidental release measures

Spills & Disposal	Recover the product by sweeping up or vacuuming without raising dust. Collect in sealed open top containers for disposal.
Personal Protection	For appropriate personal protective equipment (PPE), refer Section 8.
Environmental Precautions	This product is a herbicide and spills can damage crops, pastures and desirable vegetation.

7. Handling and storage

Precautions for Safe Handling	Avoid generating dusts while handling the product and mixing. If dusts are generated, it is advisable to wear a dust mask, refer Section 8.
Conditions for safe storage, including any incompatibilities	Store in the closed, original container in a dry, cool well ventilated area out of direct sunlight.
Other Information	Always read the label and any attached leaflet before use.

8. Exposure controls/personal protection

Occupational exposure limit values	Safe Work Australia has set the following exposure standard for diuron : TLV (TWA) 10 mg/m ³ , STEL -.
Appropriate engineering controls	Handle in well ventilated areas, generally natural ventilation is adequate.
Respiratory Protection	If dusts are present, wear a class P1 dust mask.
Personal Protective Equipment	It is good practice to wear suitable personal protective equipment (PPE). When opening the container, preparing the spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrist (or equivalent

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Hygiene Measures	clothing) and a washable hat, nitrile or elbow-length PVC gloves and face shield or goggles. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.
Requirements Concerning Special Training	After each day's use, wash contaminated clothing and safety equipment. Check State or Territory regulations that require people who use pesticides in their job or business to have training in the application of the materials.

9. Physical and chemical properties

Form	Solid
Appearance	Pale, fawn coloured granules
Odour	Sweetish, pleasant odour.
Melting Point	160°C approx for diuron
Boiling Point	NA
Solubility in Water	Disperses in water. Solubility of diuron in water is 36 mg/l @ 25°C
Specific Gravity	NA
Vapour Pressure	1.1 x 10 ⁻³ mPa @ 25°C for diuron
Vapour Density (Air=1)	NA
Partition Coefficient: n-octanol/water	Kow Log P is 2.85 for diuron
Flammability	Combustible Danger of dust explosion.

10. Stability and reactivity

Chemical Stability	Stable under normal conditions.
Possibility of hazardous reactions	Keep away from strong oxidising agents.
Hazardous Polymerization	Hazardous polymerisation is not possible.

11. Toxicological Information

Toxicology Information	No harmful effects are expected if the precautions on the label and this MSDS are followed.
Acute Toxicity - Oral	LD50 (rat) >3000 mg/kg for diuron
Acute Toxicity - Dermal	LD50 (rabbit) >2000 mg/kg for diuron
Acute Toxicity - Inhalation	LC50 (rat) (4hr) >5 mg/l for diuron
Ingestion	Amounts swallowed incidental to normal handling procedures and use are not expected to cause injury. However, swallowing large amounts of concentrate may cause nausea and vomiting.
Inhalation	May cause irritation to the respiratory tract.
Skin	The concentrated product may cause slight irritation on contact.
Eye	May irritate the eyes.
Skin Sensitisation	Product is not a skin sensitiser.
Carcinogenicity	Limited evidence of a carcinogenic effect. Diuron has been assessed in animals and some data exists that diuron is a substance which causes some concern for humans owing to possible carcinogenic effects from long term exposure, but in respect of which the available information is not adequate for making a satisfactory assessment.

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Reproductive Toxicity	No such effects have been observed in the absence of maternal toxicity.
Chronic Effects	Evidence from animal studies indicate that repeated or prolonged exposure to diuron can result in blood disorders.
Serious eye damage/irritation	Mild eye irritant.
Mutagenicity	The weight of evidence indicates that diuron does not present a mutagenic risk.
Skin corrosion/irritation	Mild skin irritant.
Other Information	The Australian Acceptable Daily Intake (ADI) for diuron for a human is 0.007 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 0.7 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', March 2013).

12. Ecological information

Persistence and degradability	Average field half life of diuron is 90 - 180 days.
Other Precautions	Do not contaminate dams, waterways or sewers with this product or the containers which have held this product.
Environmental Protection	Spray drift should be avoided, read the label for more information.
Acute Toxicity - Fish	The following is data for the active ingredient, diuron. LC50 (96hr) for rainbow trout is 5.6 mg/l. LC50 (96hr) for bluegill sunfish is 5.9 mg/l.
Acute Toxicity - Daphnia	LC50 (48hr) for daphnia is 12 mg/l for diuron.
Acute Toxicity - Algae	EC50 (72hr) for Scenedesmus quadricauda 0.0027 mg/l.
Acute Toxicity - Other Organisms	Not toxic to bees. Not toxic to birds.

13. Disposal considerations

Product Disposal	On site disposal of the concentrated product is not acceptable. Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, approach local authorities who hold periodic collections of unwanted chemicals (ChemClear®).
Container Disposal	Shake the last amount of product from the bag into application equipment. Thoroughly wash out the inner and add washings to the spray tank. Dispose of washed inner and cardboard box in landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

14. Transport information

Transport Information	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.
Storage and Transport	Considered non dangerous for road and rail transport (in packaging) by the Australian Code for the Transport of Dangerous Goods by Road and Rail. Ref: ADG7; SP No. AU01. For bulk shipments as Class 9, use UN 3077, HazChem code 2Z.
UN Number (Sea Transport)	3077
IMO Class/Packing Group	Class 9; Packing Group III
IMO Marine Pollutant	Marine Pollutant
IMO Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains diuron)

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15. Regulatory information

Poisons Schedule Not Scheduled

Other Information This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA). APVMA product number: 39201.

16. Other Information

Date of preparation Revised 25/10/2013.

or last revision of This SDS replaces document dated May 2010.

SDS

Contact Normal Hours: Mrs Kathleen Marsh Phone: +61 3 9282 1000

Person/Point After Hours: Shift Supervisor Phone: 1800 033 498

Revisions The SDS was reviewed to include GHS requirements.

Highlighted

...End Of MSDS...

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