

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

Classified as hazardous

## 1. Identification

<b>GHS Product Identifier</b>	DIURON 900DF Herbicide
<b>Product Code</b>	0328
<b>Product Type</b>	Group C Herbicide
<b>Company Name</b>	NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)
<b>Address</b>	103-105 Pipe Road Laverton North Victoria 3026 Australia
<b>Telephone/Fax Number</b>	Tel: +61 3 9282-1000 Fax: +61 3 9282-1001
<b>Emergency phone number</b>	1800 033 498 (24hr Australia)
<b>Recommended use of the chemical and restrictions on use</b>	For selective weed control in situations as per the Directions for Use table on the label.
<b>Other Information</b>	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

<b>GHS classification of the substance/mixture</b>	Carcinogenicity: Category 2 STOT Repeated Exposure Category 2 Acute Toxicity - Oral: Category 4 Eye Damage/Irritation: Category 1 Skin Corrosion/Irritation: Category 2
<b>Signal Word (s)</b>	DANGER
<b>Hazard Statement (s)</b>	Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. Harmful if swallowed. Causes serious eye damage. Causes skin irritation.
<b>General Precautionary Statement (s)</b>	If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use.
<b>Pictogram (s)</b>	Corrosion, Exclamation mark, Health hazard



<b>Precautionary statement – Prevention</b>	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.
<b>Precautionary statement – Response</b>	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.
<b>Other Information</b>	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

<b>Inhalation</b>	Remove affected person to fresh air until recovered. If symptoms develop or persist, seek medical advice.
<b>Ingestion</b>	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.
<b>Skin</b>	Wash affected areas thoroughly with soap and water. Remove contaminated clothing and launder before re-use.
<b>Eye contact</b>	If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes. Seek medical advice.
<b>Advice to Doctor</b>	Treat symptomatically.

### 5. Fire-fighting 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 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.
<b>Special Protective Equipment for fire fighters</b>	Breathable air apparatus should be worn when fighting a fire in which diuron is involved.
<b>Other Information</b>	STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES.

### 6. Accidental release measures

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

### 7. Handling and storage

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

### 8. Exposure controls/personal protection

<b>Occupational exposure limit values</b>	Safe Work Australia has set the following exposure standard for diuron : TLV (TWA) 10 mg/m <sup>3</sup> , STEL -.
<b>Appropriate engineering controls</b>	Handle in well ventilated areas, generally natural ventilation is adequate.
<b>Respiratory Protection</b>	If dusts are present, wear a class P1 dust mask.
<b>Personal Protective Equipment</b>	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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<b>Hygiene Measures</b>	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.
<b>Requirements Concerning Special Training</b>	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

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

## 10. Stability and reactivity

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

## 11. Toxicological Information

<b>Toxicology Information</b>	No harmful effects are expected if the precautions on the label and this MSDS are followed.
<b>Acute Toxicity - Oral</b>	LD50 (rat) >3000 mg/kg for diuron
<b>Acute Toxicity - Dermal</b>	LD50 (rabbit) >2000 mg/kg for diuron
<b>Acute Toxicity - Inhalation</b>	LC50 (rat) (4hr) >5 mg/l for diuron
<b>Ingestion</b>	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.
<b>Inhalation</b>	May cause irritation to the respiratory tract.
<b>Skin</b>	The concentrated product may cause slight irritation on contact.
<b>Eye</b>	May irritate the eyes.
<b>Skin Sensitisation</b>	Product is not a skin sensitiser.
<b>Carcinogenicity</b>	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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<b>Reproductive Toxicity</b>	No such effects have been observed in the absence of maternal toxicity.
<b>Chronic Effects</b>	Evidence from animal studies indicate that repeated or prolonged exposure to diuron can result in blood disorders.
<b>Serious eye damage/irritation</b>	Mild eye irritant.
<b>Mutagenicity</b>	The weight of evidence indicates that diuron does not present a mutagenic risk.
<b>Skin corrosion/irritation</b>	Mild skin irritant.
<b>Other Information</b>	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

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

## 13. Disposal considerations

<b>Product Disposal</b>	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®).
<b>Container Disposal</b>	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

<b>Transport Information</b>	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.
<b>Storage and Transport</b>	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.
<b>UN Number (Sea Transport)</b>	3077
<b>IMO Class/Packing Group</b>	Class 9; Packing Group III
<b>IMO Marine Pollutant</b>	Marine Pollutant
<b>IMO Proper Shipping Name</b>	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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