



# SAFETY DATA SHEET

According to Safe Work Australia

Printing date 08.06.2021

Revision: 08.06.2021

## 1 . IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

**Product Name:** 4FARMERS DIURON 900 DF HERBICIDE

**Recommended Use of the Chemical and Restriction on Use:** Agricultural herbicide

**Details of Manufacturer or Importer:**

4Farmers Australia Pty Ltd  
70 McDowell Street  
Welshpool WA 6106

**Phone Number:** +61 8 9356 3446

**Emergency telephone number:** National Poison Information Centre: 13 11 26

## 2 . HAZARDS IDENTIFICATION

**Hazardous Nature:**

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition).



health hazard

Carc. 2                    H351 Suspected of causing cancer.

STOT RE 2                H373 May cause damage to organs through prolonged or repeated exposure.



environment

Aquatic Acute 1        H400 Very toxic to aquatic life.

Aquatic Chronic 1     H410 Very toxic to aquatic life with long lasting effects.



Acute Tox. (Oral) 4    H302 Harmful if swallowed.

**Signal Word** Warning

**Hazard Statements**

H302 Harmful if swallowed.

H351 Suspected of causing cancer.

H373 May cause damage to organs through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

**Precautionary Statements**

P260                    Do not breathe dust/fume/gas/mist/vapours/spray.

P280                    Wear protective gloves/protective clothing/eye protection/face protection.

P273                    Avoid release to the environment.

P264                    Wash hands thoroughly after handling.

P270                    Do not eat, drink or smoke when using this product.

P201                    Obtain special instructions before use.

P202                    Do not handle until all safety precautions have been read and understood.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P314                    Get medical advice/attention if you feel unwell.

(Contd. on page 2)

# SAFETY DATA SHEET

## According to Safe Work Australia

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**Product Name: 4FARMERS DIURON 900 DF HERBICIDE**

(Contd. of page 1)

P330	Rinse mouth.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national regulations.

### 3 . COMPOSITION AND INFORMATION ON INGREDIENTS

**Chemical Characterization: Mixtures****Description:** Mixture of substances listed below with nonhazardous additions.**Hazardous Components:**

330-54-1	diuron(ISO)	90%
	 Carc. 2, H351; STOT RE 2, H373; Aquatic Acute 1, H400; Aquatic Chronic 1, H410;  Acute Tox. (Oral) 4, H302	

### 4 . FIRST AID MEASURES

**Inhalation:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if breathing problems develop.

**Skin Contact:**

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms occur.

**Eye Contact:**

In case of eye contact, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention.

**Ingestion:**

If swallowed, do not induce vomiting. Do not give anything by mouth to an unconscious person. Seek immediate medical attention.

### 5 . FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:**

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**Specific Hazards Arising from the Chemical:**

Combustible solid. Clouds of dust in a confined or unventilated space may form an explosive mixture with air, and any source of ignition, flame or spark, will cause fire or explosion.

Hazardous combustion products include oxides of carbon, nitrogen, hydrogen chloride and phosgene.

**Special Protective Equipment and Precautions for Fire Fighters:**

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

### 6 . ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment and Emergency Procedures:**

Wear Safe Work Australia approved particulate respirator and full protective clothing. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation. Extinguish all sources of ignition. Avoid sparks and open flames. No smoking.

**Environmental Precautions:**

In the event of a major spill, prevent spillage from entering drains or water courses.

(Contd. on page 3)

# SAFETY DATA SHEET

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(Contd. of page 2)

**Methods and Materials for Containment and Cleaning Up:**

Stop leak if safe to do so and sweep granules into a pile and shovel into drums for subsequent disposal. Avoid generating dust. Provide adequate ventilation. Consider using vacuum equipment.

### 7. HANDLING AND STORAGE

**Precautions for Safe Handling:**

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of dust. Prevent formation of dust.

Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

**Conditions for Safe Storage:**

Store in a cool, dry and well ventilated area. Keep container tightly closed when not in use. Protect from direct sunlight, heat, sparks, open flames and other sources of ignition. Keep away from strong oxidising agents (nitrates, oxidising acids, chlorine bleaches, pool chlorine etc.)

### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Exposure Standards:****330-54-1 diuron(ISO)**NES | TWA: 10 mg/m<sup>3</sup>**Engineering Controls:**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapour below occupational exposure standards.

**Respiratory Protection:**

Use a Safe Work Australia approved particulate respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of dust, inadequate ventilation, development of respiratory tract irritation) and engineering controls are not feasible. See Australian Standards AS/NZS 1715 and 1716 for more information.

**Skin Protection:**

PVC, PVA, nitrile, neoprene, rubber or vinyl gloves, cotton overalls buttoned to the neck and wrist and a washable hat. See Australian/New Zealand Standard AS/NZS 2161 and 4501 for more information.

**Eye and Face Protection:**

Eye and face protectors for protection against dust. See Australian/New Zealand Standard AS/NZS 1337 for more information.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:**

<b>Form:</b>	Granules
<b>Colour:</b>	White
<b>Odour:</b>	Faint
<b>Odour Threshold:</b>	No information available
<b>pH-Value:</b>	No information available
<b>Initial Boiling Point/Boiling Range:</b>	No information available
<b>Flash Point:</b>	Not applicable
<b>Flammability:</b>	Combustible solid
<b>Auto-ignition Temperature:</b>	>100 °C
<b>Decomposition Temperature:</b>	180-190 °C

(Contd. on page 4)

# SAFETY DATA SHEET

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(Contd. of page 3)

**Explosion Limits:****Lower:** No information available**Upper:** No information available**Vapour Pressure:** Negligible**Relative Density at 20 °C:** 0.9 g/cm<sup>3</sup>**Vapour Density:** Not applicable**Evaporation Rate:** No information available**Solubility in Water:** Suspensible in water

### 10 . STABILITY AND REACTIVITY

**Possibility of Hazardous Reactions:** Hazardous polymerisation will not occur.**Chemical Stability:** Stable at ambient temperature and under normal conditions of use.**Conditions to Avoid:** Heat, sparks, open flames, hot surfaces and direct sunlight.**Incompatible Materials:**

Strong oxidising agents (nitrates, oxidising acids, chlorine bleaches, pool chlorine etc.)

**Hazardous Decomposition Products:** Oxides of carbon, nitrogen, hydrogen chloride and phosgene.

### 11 . TOXICOLOGICAL INFORMATION

**Toxicity:****LD<sub>50</sub>/LC<sub>50</sub> Values Relevant for Classification:** No information available**Acute Health Effects****Inhalation:** May cause respiratory irritation.**Skin:** May cause skin irritation.**Eye:** May cause eye irritation.**Ingestion:** Harmful if swallowed.**Skin Corrosion / Irritation:** Based on classification principles, the classification criteria are not met.**Serious Eye Damage / Irritation:** Based on classification principles, the classification criteria are not met.**Respiratory or Skin Sensitisation:** No sensitising effects known.**Germ Cell Mutagenicity:** Based on classification principles, the classification criteria are not met.**Carcinogenicity:**

Suspected of causing cancer.

Diuron (ISO) is classified by Safe Work Australia as Carcinogen Category 3.

**Reproductive Toxicity:** Based on classification principles, the classification criteria are not met.**Specific Target Organ Toxicity (STOT) - Single Exposure:**

Based on classification principles, the classification criteria are not met.

**Specific Target Organ Toxicity (STOT) - Repeated Exposure:**

May cause damage to organs through prolonged or repeated exposure.

**Aspiration Hazard:** Based on classification principles, the classification criteria are not met.**Chronic Health Effects:** No information available**Existing Conditions Aggravated by Exposure:** No information available**Additional toxicological information:**

(Contd. on page 5)

# SAFETY DATA SHEET

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(Contd. of page 4)

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 2016).

## 12 . ECOLOGICAL INFORMATION

**Ecotoxicity:** Diuron is slightly toxic to birds and non-toxic to bees.

**Aquatic toxicity:**

Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

**Persistence and Degradability:**

Diuron is moderately to highly persistent in soils. Half-life is from 1 month to 1 year. Relatively stable in neutral water.

**Bioaccumulative Potential:** No information available

**Mobility in Soil:** Mobility in soil depends on organic matter.

## 13 . DISPOSAL CONSIDERATIONS

**Disposal Methods and Containers:** Dispose according to applicable local and state government regulations.

**Special Precautions for Landfill or Incineration:**

Please consult your state Land Waste Management Authority for more information.

## 14 . TRANSPORT INFORMATION

**UN Number**

ADG

UN3077

Not subject to the ADG Code when transported in Australia by Road or Rail in packages 500kg(L) or less; or IBCs (refer to SP AU01).

**IMDG, IATA**

UN3077

**Proper Shipping Name**

ADG

3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (diuron(ISO))

IMDG

ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

IATA

SOLID, N.O.S. (diuron(ISO)), MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (diuron(ISO))

**Dangerous Goods Class**

ADG Class:

9 (M7) Miscellaneous dangerous substances and articles.

IMDG Class:

9 Miscellaneous dangerous substances and articles.

**Packing Group:**

ADG, IMDG, IATA

III

**Marine pollutant:**

Yes

Symbol (fish and tree)

**EMS Number:**

F-A,S-F

**Hazchem Code:**

2Z

**Special Provisions:**

179, 274, 331, 335, AU01

(Contd. on page 6)

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(Contd. of page 5)

**Limited Quantities:** 5 kg  
**Packagings & IBCs - Packing Instruction:** P002, IBC08, LP02  
**Packagings & IBCs - Special Packing Provisions:** PP12, B3  
**Portable Tanks & Bulk Containers - Instructions:** T1, BK2  
**Portable Tanks & Bulk Containers - Special Provisions:** TP33

## 15 . REGULATORY INFORMATION

### Australian Inventory of Chemical Substances:

330-54-1 | diuron(ISO)

**Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:**  
 Not a scheduled poison.

## 16 . OTHER INFORMATION

**Date of Preparation or Last Revision:** 08.06.2021

### Abbreviations and acronyms:

ADG: Australian Dangerous Goods  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 LC<sub>50</sub>: Lethal concentration, 50 percent  
 LD<sub>50</sub>: Lethal dose, 50 percent  
 IARC: International Agency for Research on Cancer  
 STEL: Short Term Exposure Limit  
 TWA: Time Weighted Average  
 NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)  
 Acute Tox. (Oral) 4: Acute toxicity – Category 4  
 Carc. 2: Carcinogenicity – Category 2  
 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2  
 Aquatic Acute 1: Hazardous to the aquatic environment, short-term (Acute). Category 1  
 Aquatic Chronic 1: Hazardous to the aquatic environment, long-term (Chronic). Category 1

### Disclaimer

This SDS is prepared in accord with the Safe Work Australia document “Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - December 2011”

The information contained in this material safety data sheet is provided in good faith and is believed to be accurate at the date of issuance. 4Farmers Australia Pty Ltd makes no representation of the accuracy or comprehensiveness of the information and to the full extent allowed by law excludes all liability for any loss or damage related to the supply or use of the information in this material safety data sheet. . The user is cautioned to make their own determinations as to the suitability of the information provided to the particular circumstances in which the product is used.