



# SAFETY DATA SHEET

## DRAGON 700WG FUNGICIDE

Infosafe No.: LQB4D  
ISSUED Date : 20/05/2022  
ISSUED by: NUFARM AUSTRALIA LIMITED.

### Section 1 - Identification

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**Product Identifier**

DRAGON 700WG FUNGICIDE

**Product Code**

0511

**Product Type**

Group M9 Herbicide .

**Company Name**

NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)

**Address**

103-105 Pipe Road Laverton North  
Victoria 3026 AUSTRALIA

**Telephone/Fax Number**

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**Emergency Phone Number**

1800 033 498 (24hr Australia)

**Emergency Contact Name**

[www.nufarm.com.au](http://www.nufarm.com.au)

**E-mail Address**

[SDSANZ@nufarm.com](mailto:SDSANZ@nufarm.com)

**Recommended use of the chemical and restrictions on use**

For the control of certain diseases of stone fruit, pome fruit and vines as specified in the Directions for Use table on the label.

**Additional Information**

This Safety Data Sheet describes the properties of the concentrated product.

The physical properties and the assessments may not apply to the properties of the product once it has been diluted for application.

### Section 2 - Hazard(s) Identification

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**GHS classification of the substance/mixture**

Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Complies with the requirements of Special Provision AU01 and therefore exempted from being classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Classified as Dangerous Goods according to International Maritime Dangerous Goods Code (IMDG) and International Air Transport Association (IATA).

Acute toxicity: Category 4 - Oral

Skin corrosion/irritation: Category 2

Eye damage/irritation: Category 1

Hazardous to the Aquatic Environment - Acute Hazard: Category 1

Hazardous to the Aquatic Environment - Long-Term Hazard: Category 1

**Signal Word (s)**

DANGER

**Hazard Statement (s)**

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H410 Very toxic to aquatic life with long lasting effects.

**Pictogram (s)**

Exclamation mark, Corrosion, Environment

**Precautionary Statement – Prevention**

P264 Wash skin thoroughly after handling.

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

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

P273 Avoid release to the environment.

**Precautionary Statement – Response**

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

P330 Rinse mouth.

P302+P352 IF ON SKIN: Wash with plenty of water.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P391 Collect spillage.

**Precautionary Statement – Disposal**

P501 Dispose of contents/container to an approved waste disposal plant.

**Section 3 - Composition and Information on Ingredients****Ingredients**

Name	CAS	Proportion
dithianon (ISO)	3347-22-6	60-80 %
Dispersants	none allocated	10-30 %
Siliceous mineral		10-30 %

**Section 4 - First Aid Measures****Inhalation**

If inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms develop and/or persist seek medical attention.

**Ingestion**

Do not induce vomiting. Wash out mouth thoroughly with water. Seek immediate medical attention.

**Skin**

Remove all contaminated clothing immediately. Wash affected area thoroughly with soap and water. Wash contaminated clothing before reuse or discard. Seek medical attention.

## **Eye**

If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Seek immediate medical attention.

## **First Aid Facilities**

Eyewash, safety shower and normal washroom facilities.

## **Advice to Doctor**

Treat symptomatically.

## **Other Information**

For advice in an emergency, contact a Poisons Information Centre (Phone Australia 131 126) or a doctor at once.

## **Section 5 - Firefighting Measures**

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### **Suitable Extinguishing Media**

Water fog, foam, carbon dioxide or dry chemical.

### **Hazards from Combustion Products**

Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases, including oxides of carbon, nitrogen or sulphur.

### **Specific hazards arising from the chemical**

This product contains a high proportion of an organic solid. Large accumulations of dust and fines associated with industrial processing of bulk material may be a dust explosion hazard.

### **Decomposition Temperature**

Not available

### **Precautions in connection with Fire**

Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent exposure to vapours or fumes. Water spray may be used to cool down heat-exposed containers. Fight fire from safe location. This product should be prevented from entering drains and watercourses.

## **Section 6 - Accidental Release Measures**

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### **Emergency Procedures**

Increase ventilation. Evacuate all unprotected personnel. Wear sufficient respiratory protection and full protective clothing to prevent exposure. Sweep up material avoiding dust generation or dampen spilled material with water to avoid airborne dust, then transfer material to a suitable container. Wash surfaces well with soap and water. Seal all wastes in labelled containers for subsequent recycling or disposal. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

## **Section 7 - Handling and Storage**

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### **Precautions for Safe Handling**

Avoid inhalation of dust, and skin or eye contact. Use only in a well ventilated area. Keep containers sealed when not in use. Prevent the build up of dust in the work atmosphere. Maintain high standards of personal hygiene i.e. Washing hands prior to eating, drinking, smoking or using toilet facilities.

Do NOT contaminate dams, rivers or streams, or any other water bodies with pesticide or used containers.

### **Conditions for safe storage, including any incompatibilities**

Store in a cool, dry, well-ventilated area, out of direct sunlight and moisture. Store in suitable, labelled containers. Keep containers tightly closed. Store away from incompatible materials. Ensure that storage conditions comply with applicable local and national regulations.

### **Other Information**

Always read the label and any attached leaflet before use.

## **Section 8 - Exposure Controls and Personal Protection**

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### **Occupational exposure limit values**

No exposure standards have been established for this material, however, the TWA exposure standards for dust not otherwise specified is 10 mg/m<sup>3</sup>. As with all chemicals, exposure should be kept to the lowest possible levels.

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

Source: Safe Work Australia

#### **Biological Monitoring**

No biological limits allocated.

#### **Control Banding**

Not available

#### **Engineering Controls**

This substance is hazardous and should be used with a local exhaust ventilation system, drawing solid/dust away from workers' breathing zone. If the engineering controls are not sufficient to maintain concentrations of particulates below the exposure standards, suitable respiratory protection must be worn.

#### **Respiratory Protection**

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable dust/particulate filter (P1) should be used.

Reference should be made to Australian/New Zealand Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

#### **Eye and Face Protection**

Safety glasses with full face shield should be used. Eye protection devices should conform to relevant regulations.

Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 (series) - Eye Protectors for Industrial Applications.

#### **Hand Protection**

Wear gloves of impervious material such as elbow-length PVC gloves. Final choice of appropriate gloves will vary according to individual circumstances. i.e. methods of handling or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations.

Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

#### **Thermal Hazards**

No further relevant information available.

#### **Body Protection**

Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist and a washable hat is recommended. Chemical resistant apron is recommended where large quantities are handled.

#### **Hygiene Measures**

After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash contaminated clothing and safety equipment.

#### **Special Protective Measures**

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.

## Section 9 - Physical and Chemical Properties

Properties	Description	Properties	Description
Form	Solid	Appearance	Brown granules
Colour	Brown	Odour	Not available
Melting Point	217°C for dithianon	Boiling Point	Not available
Decomposition Temperature	Not available	Solubility in Water	Disperses in water
Specific Gravity	Not available	pH	6.9 (1% in water)
Vapour Pressure	2.7 x 10 <sup>-6</sup> mPa @ 20°C for dithianon	Relative Vapour Density (Air=1)	Not available
Evaporation Rate	Not available	Odour Threshold	Not available
Viscosity	Not available	Volatile Component	Not available
Partition Coefficient: n-octanol/water (log value)	Kow Log P is 3.2	Flash Point	Not available
Flammability	Not flammable	Auto-Ignition Temperature	Not available
Explosion Limit - Upper	Not available	Explosion Limit - Lower	Not available
Explosion Properties	Not available	Oxidising Properties	Not available
Particle Size	Not available		

## Section 10 - Stability and Reactivity

### Reactivity

Reacts with incompatible materials.

### Chemical Stability

Stable under normal conditions of storage and handling. Do not store above 80 °C.

### Possibility of hazardous reactions

Reacts with incompatible materials.

### Conditions to Avoid

Extremes of temperature and direct sunlight.

### Incompatible Materials

Strong alkalis and alkaline materials such as lime, lime sulfur and bordeaux mixtures.

### Hazardous Decomposition Products

Thermal decomposition may result in the release of toxic and/or irritating fumes, smoke and gases, including oxides of carbon, nitrogen or sulphur.

### Hazardous Polymerization

Will not occur.

## Section 11 - Toxicological Information

### Toxicology Information

Toxicity data is given below.

#### Acute Toxicity - Oral

LD50 (rat): 273 - 520 mg/kg

#### Acute Toxicity - Dermal

LD50 (rat): >4000 mg/kg

**Acute Toxicity - Inhalation**

LC50 (rat): 0.33 mg/l/4h for dithianon .

**Ingestion**

Harmful if swallowed. Ingestion of this product may cause irritation to the mouth, throat, oesophagus and stomach with symptoms of nausea, abdominal discomfort, vomiting and diarrhoea.

**Inhalation**

Inhalation of dusts may irritate the respiratory system.

**Skin**

Causes skin irritation. Skin contact will cause redness, itching and swelling. Repeated exposure may cause skin dryness and cracking and may lead to dermatitis.

**Eye**

Causes eye damage. Eye contact will cause stinging, blurring, tearing, severe pain and possible burns, necrosis, permanent damage and blindness.

**Respiratory Sensitisation**

Not expected to be a respiratory sensitiser.

**Skin Sensitisation**

Not expected to be a skin sensitiser.

**Germ Cell Mutagenicity**

Not considered to be a mutagenic hazard.

**Carcinogenicity**

Not considered to be a carcinogenic hazard.

**Reproductive Toxicity**

Not considered to be toxic to reproduction.

**STOT - Single Exposure**

Not expected to cause toxicity to a specific target organ.

**STOT - Repeated Exposure**

Not expected to cause toxicity to a specific target organ.

**Aspiration Hazard**

Not expected to be an aspiration hazard.

**Chronic Effects**

Chronic Overexposure: Weight loss and damage to liver and kidneys may be expected if exposure is excessive.

**Other Information**

The Australian Acceptable Daily Intake (ADI) for dithianon for a human is 0.007 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 0.66 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: Australian Pesticides and Veterinary Medicines Authority (APVMA) March 2022.

## Section 12 - Ecological Information

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**Ecotoxicity**

Very toxic to aquatic life with long lasting effects.

**Persistence and degradability**

Not available

**Mobility**

Not available

**Bioaccumulative Potential**

Not available

**Other Adverse Effects**

Not available

**Other Precautions**

If climatic conditions, at the time of application, result in slow drying of the spray deposit, some varieties of fruit may show minor skin russetting.

### **Environmental Protection**

Do not discharge this material into waterways, drains and sewers.

### **Acute Toxicity - Fish**

LC50 (rainbow trout): 0.016 mg/l/96h.

### **Acute Toxicity - Daphnia**

EC50 (daphnia): 0.110 mg/l/48h.

### **Acute Toxicity - Algae**

EC50 (selenastrum capricornutum): 0.064 mg/l.

### **Acute Toxicity - Other Organisms**

Bees: Not toxic to bees. LD50 >100 µg/bee.

LD50 (female quail): 290 mg/kg for dithianon.

### **Hazardous to the Ozone Layer**

This product is not expected to deplete the ozone layer.

## **Section 13 - Disposal Considerations**

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### **Disposal Considerations**

Dispose of waste according to applicable local and national regulations. Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes including emptied containers are controlled wastes and should be disposed of in accordance with all applicable local and national regulations.

To minimise personal exposure to the chemical, refer to Section 8—Exposure controls and personal protection.

### **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®).

### **Disposal methods**

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.

## **Section 14 - Transport Information**

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### **Transport Information**

Road and Rail Transport (ADG Code):

This product complies with the requirements of Special Provision AU01 and is therefore exempted from being classified as Dangerous Goods according to the ADG Code.

Note: Special Provision AU01:

Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082 are not subject to this Code when transported by road or rail in: packagings that do not incorporate a receptacle exceeding 500 kg(L); or IBCs.

Marine Transport (IMO/IMDG):

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Class/Division: 9

UN No: 3077

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Contains Dithianon)

Packing Group: III

EMS: F-A, S-F

Special Provisions: 274, 335, 966, 967, 969

Air Transport (ICAO/IATA):

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

Class/Division: 9

UN No: 3077

Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s.(Contains Dithianon)  
Packing Group: III  
Label: Miscellaneous  
Packaging Instructions (passenger & cargo): 956  
Packaging Instructions (cargo only): 956  
Special provisions: A97, A158, A179, A197, A215

**ADG U.N. Number**

None Allocated

**ADG Proper Shipping Name**

None Allocated

**ADG Transport Hazard Class**

None Allocated

**Special Precautions for User**

Not available

**IMDG Marine pollutant**

Yes

**Transport in Bulk**

Not available

## Section 15 - Regulatory Information

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**Regulatory Information**

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety Regulations, Australia.

Classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

**Poisons Schedule**

S6

**Montreal Protocol**

Not listed

**Stockholm Convention**

Not listed

**Rotterdam Convention**

Not listed

**International Convention for the Prevention of Pollution from Ships (MARPOL)**

Not available

**Agricultural and Veterinary Chemicals Act 1994**

This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA). APVMA product number: 68856.

**Basel Convention**

Not available

## Section 16 - Any Other Relevant Information

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**Date of Preparation**

SDS created: May 2022

**Version Number**

1.0

**Literature References**

Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.

Standard for the Uniform Scheduling of Medicines and Poisons.

Australian Code for the Transport of Dangerous Goods by Road & Rail.

Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

Code of Practice for Supply Diversion into Illicit Drug Manufacture.

National Code of Practice for Chemicals of Security Concern.  
 Agricultural Compounds and Veterinary Chemicals Act.  
 Australian Pesticides and Veterinary Medicines Authority (APVMA) March 2022  
 International Agency for Research on Cancer (IARC) Monographs.  
 Montreal Protocol on Substances that Deplete the Ozone Layer.  
 Stockholm Convention on Persistent Organic Pollutants (POPs).  
 Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade.  
 Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and Their Disposal.  
 International Air Transport Association (IATA) Dangerous Goods Regulations.  
 International Maritime Dangerous Goods (IMDG) Code.  
 Workplace exposure standards for airborne contaminants.  
 Adopted biological exposure determinants, American Conference of Industrial Hygienists (ACGIH).  
 Globally Harmonised System of Classification and Labelling of Chemicals (7th revised edition).  
 Code of Practice: Managing Noise and Preventing Hearing Loss at Work.

**Contact Person/Point**

Normal hours: SDS coordinator : Phone +61 3 9282 1000

After hours: Shift supervisor : Phone 1800 033 498

**User Codes**

User Title Label	User Codes
Task #	3965

**END OF SDS**

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