

Infosafe No™ 3NUYZ	Issue Date : June 2017	ISSUED by NUFARM
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 Product Name **DRAGON 700WG Fungicide**

Classified as hazardous

1. Identification

GHS Product Identifier	DRAGON 700WG Fungicide
Product Code	0511
Product Type	Group M9 Fungicide
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 the control of certain diseases of stone fruit, pome fruit and vines as specified in the Directions for Use table on the label.
Other 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.

2. Hazard Identification

GHS classification of the substance/mixture	Acute Toxicity - Oral: Category 4 Eye Damage/Irritation: Category 1 Skin Corrosion/Irritation: Category 2
Signal Word (s)	DANGER
Hazard Statement (s)	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, The below pictograms are GHS Hazard symbols for workplace use only. See SECTION 14 for Dangerous Goods information.



Precautionary statement – Prevention	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 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 S6

3. Composition/information on ingredients

Chemical Characterization	Solid		
Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Dithianon	3347-22-6	700 g/kg

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Ingredients	Name	CAS	Proportion
	Dispersants		10-30 %
	Siliceous mineral		10-30 %

4. First-aid measures

Inhalation	Remove affected person to fresh air until recovered. If symptoms develop or persist, seek medical advice.
Ingestion	Rinse mouth and then drink plenty of water. 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 immediately.
First Aid Facilities	If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 11 26.
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	If involved in a major fire, could evolve oxides of carbon, nitrogen or sulphur.
Products	
Special Protective Equipment for fire fighters	Breathable air apparatus may have to be worn if material is involved in fires especially in confined spaces.
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.
Hazchem Code	2Z
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 spilled material and waste in sealable open-top type containers for disposal. On-site disposal of concentrate is not acceptable.
Personal Protection	For appropriate personal protective equipment (PPE), refer Section 8.

7. Handling and storage

Precautions for Safe Handling	Do NOT contaminate dams, rivers or streams, or any other water bodies with pesticide or used containers. Avoid generating dusts while handling the product and mixing.
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	No exposure standard for this product has been set, however, an exposure standard has been set for kaolin at 10 mg/m ³ .
Appropriate engineering controls	Handle in well ventilated areas, generally natural ventilation is adequate. Avoid generating and inhaling dusts.

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Respiratory Protection	If dusts are present, wear a class P1 dust mask.
Personal Protective Equipment	When opening the container, preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and goggles.
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.
Requirements Concerning Special Training	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	Brown granules
Melting Point	217°C for dithianon
Solubility in Water	Disperses in water.
Specific Gravity	
pH	6.9 (1% in water)
Vapour Pressure	2.7 x 10 ⁻⁶ mPa @ 20°C for dithianon
Partition Coefficient: n-octanol/water	Kow Log P is 3.2
Flammability	Not flammable May form dust clouds.

10. Stability and reactivity

Chemical Stability	Dithianon is stable at temperatures below 80°C.
Incompatible Materials	Avoid contact of the concentrate with strong alkalis and alkaline materials such as lime, lime sulfur and bordeaux mixtures.
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) (female, male) 273 - 520 mg/kg for the formulated product
Acute Toxicity - Dermal	LD50 (rat) >4000 mg/kg for the formulated product
Acute Toxicity - Inhalation	LC50 (rat) (4hr) 0.33 mg/l for dithianon
Ingestion	Possible symptoms of exposure include: lethargy, shortness of breath, diarrhoea, motor weakness and incoordination.
Inhalation	Inhalation of dusts or aerosols may result in effects described under ingestion.
Skin	Prolonged or repeated exposure may cause skin sensitisation.
Eye	The concentrate will cause severe irritation and possible damage unless washed off immediately.
Skin Sensitisation	Product is a skin sensitiser.
Carcinogenicity	The weight of the evidence is that dithianon is not carcinogenic.
Reproductive Toxicity	Data indicates no teratogenic effects.
Chronic Effects	Chronic Overexposure: Weight loss and damage to liver and kidneys may be expected if exposure is excessive.
Serious eye damage/irritation	Severe irritant

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Skin corrosion/irritation	Moderate skin irritant.
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: Comm. Dept. of Health and Ageing, Office of Chemical Safety, 'ADI List', March 2016).

12. Ecological information

Known Harmful Effects on the Environment	The product is a marine pollutant for sea transport. Harmful to fish.
Other Precautions	Do not contaminate streams, rivers or waterways with the chemical or used containers. 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.
Acute Toxicity - Fish	LC50 (96hr) for rainbow trout is 0.016 mg/l for the formulated product
Acute Toxicity - Daphnia	LC50 (48hr) for daphnia is 0.110 mg/l for the formulated product.
Acute Toxicity - Algae	EC50 for Selenastrum capricornutum is 0.064 mg/l.
Acute Toxicity - Other Organisms	Bees: Not toxic to bees. LD50 >100 µg/bee. LD50 for female quail is 290 mg/kg for dithianon

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.
U.N. Number	3077
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. - Contains Dithianon
Transport hazard class(es)	9
Hazchem Code	2Z
Packaging Method	3.8.9
Packing Group	III
EPG Number	9C1
IERG Number	47
UN Number (Sea Transport)	3077
IMO Class/Packing Group	Class 9; Packing Group III
IMO Marine Pollutant	Marine Pollutant



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IMO Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(contains Dithianon)

15. Regulatory information

Regulatory Information Australia: WHS regulations (2011) - Schedule 11: classification not listed.

Poisons Schedule S6

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

16. Other Information

Date of preparation or last revision of SDS 28/06/2017

Contact Person/Point Normal Hours: Mrs Kathleen Marsh Phone: +61 3 9282 1000
After Hours: Shift Supervisor Phone: 1800 033 498

Revisions Highlighted The SDS was reviewed. Minor changes were made to the information and product has been rebranded.

...End Of MSDS...

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