

Infosafe No™ 3NV11 Issue Date : July 2017 ISSUED by NUFARM

Product Name **Ziragranz Fungicide**

Classified as hazardous

## 1. Identification

<b>GHS Product Identifier</b>	Ziragranz Fungicide
<b>Product Code</b>	5119
<b>Product Type</b>	Group Y Fungicide
<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>	Product controls black spot and other fungal diseases of Celery, Grapes, Pome and Stone Fruits and Roses as per the Directions for Use table on the label.
<b>Other Information</b>	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

<b>GHS classification of the substance/mixture</b>	IT2 Acute Toxicity - Inhalation: Category 2 OT3 Acute Toxicity - Oral: Category 3 RE2 STOT Repeated Exposure Category 2 SE-3RES STOT Single Exposure Category 3 (respiratory tract irritation) ED1 Eye Damage/Irritation: Category 1 AA1 Hazardous to the Aquatic Environment - Acute Hazard: Category 1 AC1 Hazardous to the Aquatic Environment - Long-Term Hazard: Category 1
<b>Signal Word (s)</b>	DANGER
<b>Hazard Statement (s)</b>	H330 Fatal if inhaled. H301 Toxic if swallowed. H373 May cause damage to organs through prolonged or repeated exposure. H335 May cause respiratory irritation. H318 Causes serious eye damage. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.
<b>General Precautionary Statement (s)</b>	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Read label before use.
<b>Pictogram (s)</b>	Skull and crossbones, Health hazard, Exclamation mark, Corrosion, Environment, The below pictograms are GHS Hazard symbols for workplace use only. See SECTION 14 for Dangerous Goods information.



<b>Precautionary statement – Prevention</b>	P260 Do not breathe dusts or spray. P264 Wash hands and exposed skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves, clothing, eye and face protection.
<b>Precautionary statement – Response</b>	P314 Get medical advice/attention if you feel unwell. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P310 Immediately call a POISON CENTER or doctor/physician. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P330 Rinse mouth. 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 or doctor/physician.

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**Other Information** Poisons Schedule S6

### 3. Composition/information on ingredients

**Chemical** Solid

**Characterization**

Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Ziram	137-30-4	760 g/kg
	Dispersant	-	240 g/kg

### 4. First-aid measures

<b>Inhalation</b>	Remove victim from exposure - avoid becoming a casualty. If breathing is difficult, oxygen may be given by a trained person. Obtain medical assistance.
<b>Ingestion</b>	Give a glass of water. Rinse mouth thoroughly with water. Seek medical advice immediately.
<b>Skin</b>	Wash affected areas thoroughly with soap and water. Remove contaminated clothing and launder before re-use. If irritation persists, seek medical advice.
<b>Eye contact</b>	If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes. If irritation persists consult a doctor.
<b>First Aid Facilities</b>	If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 11 26.
<b>Advice to Doctor</b>	Treat symptomatically. Avoid giving alcohol - may cause vomiting and shock.

### 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Water fog, foam, carbon dioxide or dry chemical.
<b>Hazards from Combustion Products</b>	If involved in a fire, it will emit oxides of sulfur, oxides of zinc and possibly oxides of nitrogen. Combustible liquid at high temperatures.
<b>Special Protective Equipment for fire fighters</b>	Breathable air apparatus should be worn when fighting a fire in which ziram is involved.
<b>Other Information</b>	STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES. Large accumulations of dust and fines associated with industrial processing of bulk material may be a dust explosion hazard.

### 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. Do NOT flush with water.
<b>Personal Protection</b>	For appropriate personal protective equipment (PPE), refer Section 8.
<b>Environmental Precautions</b>	Prevent from entering drains, waterways or sewers.

### 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, well ventilated area, as cool as possible. Do not store for prolonged periods in direct sunlight. Do not store in the same area as acids.
<b>Other Information</b>	Always read the label and any attached leaflet before use.

### 8. Exposure controls/personal protection

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<b>Occupational exposure limit values</b>	No exposure standard has been established for this product.
<b>Other Exposure Information</b>	ACGIH has set the following exposure standards for ziram TLV TWA 0.5 mg/m <sup>3</sup> ; STEL -. DFG (Germany) has set the following exposure standards for ziram MAK TWA 0.47 mg/m <sup>3</sup> ; PEAK -.
<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 P3 dust mask.
<b>Personal Protective Equipment</b>	When opening the container and preparing the spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and face shield or goggles.
<b>Hygiene Measures</b>	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.

## 9. Physical and chemical properties

<b>Form</b>	Solid
<b>Appearance</b>	Beige Granules
<b>Odour</b>	Odourless
<b>Solubility in Water</b>	Disperses in water. Solubility is low, <20 mg/l.
<b>pH</b>	5.3 (4% dispersion)
<b>Vapour Pressure</b>	<0.001 mPa
<b>Partition Coefficient: n-octanol/water</b>	Kow Log P is 1.65 @20°C
<b>Density</b>	0.6 kg/L

## 10. Stability and reactivity

<b>Chemical Stability</b>	Stable under normal conditions.
<b>Incompatible Materials</b>	The addition of a strong acid will cause release of carbon disulphide vapour. Carbon disulphide is a volatile liquid, toxic. TLC/TWA 31 mg/m <sup>3</sup> . It autoignites at about 100°C.
<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>Acute Toxicity - Oral</b>	LD50 (rat) 478 mg/kg
<b>Acute Toxicity - Dermal</b>	LD50 (rabbit) >2000 mg/kg
<b>Acute Toxicity - Inhalation</b>	LC50 (4hr) (rat) 0.07 mg/l
<b>Ingestion</b>	Ingestion of the solid is not a likely route of exposure. Possible symptoms of exposure of the concentrate include: headache, arrhythmia, shortness of breath and nausea. Consumption of alcohol increases the toxic effects.
<b>Inhalation</b>	The concentrate is considered harmful by inhalation by Worksafe Australia. When applying the product as a spray avoid breathing in spray mist.
<b>Skin</b>	Prolonged contact with the concentrate may cause irritation. May cause sensitisation by prolonged skin contact.
<b>Eye</b>	The concentrate will cause severe irritation and possible damage unless washed off immediately.
<b>Chronic Effects</b>	Based on available data, repeated exposures are not anticipated to cause additional significant adverse effects.

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**Serious eye damage/irritation** The product is a severe eye irritant.

**Human Effects** May cause sensitisation by inhalation or skin contact.

**Other Information** The Australian Acceptable Daily Intake (ADI) for ziram for a human is 0.01 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 1.0 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

**Persistence and degradability** Half life in soil is typically 3 days.

**Mobility** Rapid degradation in soil prevents significant downward movement under normal conditions.

**Known Harmful Effects on the Environment** The product is a marine pollutant for sea transport.

**Acute Toxicity - Fish** LC50 (96hr) for (rainbow trout) is 1.9 mg/l.

**Acute Toxicity - Daphnia** LC50 (48hr) for (daphnia magna) is 0.048 mg/l.

**Acute Toxicity - Other Organisms** Bees: Not toxic to bees. LD50 >100 µg/bee.  
Moderately toxic to birds.  
LD50 for (bobwhite quail) is 97 mg/kg

## 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. Single rinse before disposal.  
Add rinsings to spray tank Puncture or shred and bury containers in local authority 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

**Storage and Transport** Considered non dangerous for road and rail transport (in packaging, including IBCs not greater than 3000 Lt each) by the Australian Code for the Transport of Dangerous Goods by Road and Rail. Ref: ADG7; SP No. AU01.

**UN Number (Sea Transport)** For bulk shipments as Class 9, use UN 3077, HazChem code 2Z.  
3077

**IMO Class/Packing Group** class 9

**IMO Marine Pollutant** Marine Pollutant

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

## 15. Regulatory information

**Regulatory Information** WHS Schedule 11, item 34 ( Acute toxicity (inhalation) category 2. )

**Poisons Schedule** S6

**Packaging & Labelling** POISON  
KEEP OUT OF REACH OF CHILDREN  
READ SAFETY DIRECTIONS BEFORE OPENING OR USING



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**Other Information**      This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA). APVMA product number: 48755.

## 16. Other Information

**Date of preparation**      12/07/2017

**or last revision of  
SDS**

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

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

...End Of MSDS...

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