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Infosafe No™ 3NULC Issue Date : March 2019 ISSUED by NUFARM

Product Name NANDO®

1. Identification

**GHS Product** 

NANDO®

**Identifier** 

02995 **Product Code** Fungicide **Product Type** Nufarm N7 Company Name

Address 6 Manu Street, Otahuhu

Auckland 2024 New Zealand

Tel: 0-9-270 4150

0800 651 911

Telephone/Fax

Number

**Emergency phone** 

number Email

info@nz.nufarm.com

Recommended use of the chemical and restrictions on use

For the control of a wide range of diseases in grapes, field tomatoes,

potatoes, and vegetable brassicas.

This SDS describes, to the best of our knowledge, the properties of the Other Information 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

Other Information

6.1D acute toxicant, 6.8B reproductive or developmental toxicant,

target organ toxicant, 9.1A aquatic toxicant,

TOXICITY

- may be harmful if swallowed, inhaled or absorbed through the skin. May cause reproductive/development damage or liver damage from repeated oral

exposure. ECOTOXIC

Very toxic to aquatic organisms.

### 3. Composition/information on ingredients Liquid

Chemical

Characterization

Ingredients

Name CAS Proportion

79622-59-6 Fluazinam 500 g/L Ingredients determined Balance to be non-hazardous

4. First-aid measures

For advice contact the National Poisons Centre 0800 POISON (0800 764  $\overline{\mbox{766}}$ ) or a First Aid Measures

doctor immediately. Begin artificial respiration if the victim is not breathing. Use mouth-to-nose rather than mouth-to mouth. Obtain medical

attention.

Remove patient to fresh air. Lay down and keep warm and rested. If breathing Inhalation

is shallow or has stopped ensure airway is clear and apply resuscitation.

Seek medical assistance immediately.

Never give anything by mouth to an unconscious person. If swallowed do NOT Ingestion

induce vomiting. For advice, contact the National Poisons Centre (0800 764

766). Seek medical assistance immediately.

Skin Immediately flush body and clothes with large amounts of water. Remove

contaminated clothing and footwear. Wash affected areas with soap and water.

If a large area is affected seek medical assistance.

Remove contact lenses, if present and easy to do. Flush eyes with plenty of Eve contact

water for 15 minutes holding eyelids open if necessary.

Remove contact lenses, if present and easy to do.

Seek medical assistance even if there are no immediate symptoms.

First Aid Facilities Facilities storing or utilizing this material should be equipped with an

eyewash facility and safety shower.

Advice to Doctor Treat symptomatically.





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5. Fire-fighting measures

If involved in a fire, the product will not burn. Choose extinguishing media Suitable

to suit the burning material. extinguishing media

Hazards from Combustion

Water fog, foam, carbon dioxide or dry chemical. If involved in a fire, it may emit fluorine compounds, oxides of nitrogen and

hydrogen chloride.

Products

Full protective clothing and self-contained breathing apparatus. **Special Protective** 

**Equipment for fire** 

fighters

Specific Methods Keep up wind. Do not allow washings to reach sewage or effluent systems.

**Hazchem Code** 

Location Certificate: Not applicable Other Information

Hazardous Atmosphere Zone: Not applicable Number of Fire Extinguishers: Not applicable

6. Accidental release measures

Wear protective clothing. Clear area of unprotected personnel. Contain spill Spills & Disposal

and absorb with sand, soil or absorbent granules. If spill does enter Collect in an appropriate sealable waterways contact the local authority.

container for disposal in an approved landfill.

For appropriate personal protective equipment (PPE), refer Section 8. **Personal Protection** 

Prevent from entering drains, waterways or sewers. Environmental

**Precautions** 

7. Handling and storage

**Precautions for Safe** Avoid skin and eye contact and inhalation of spray mist.

APPROVED HANDLER: This product must be under the control of an approved Handling

handler when it is applied in a wide dispersive manner, or used by a

commercial contractor.

TRACKING: Is not required

RECORD KEEPING: Records of use as described in NZS 8409 Management of

Agrichemicals must be kept if 3L or more is applied within 24 hours.

Do not apply onto or into water.

Conditions for safe storage, including any incompatabilities Keep out of reach of children.

Store in original container tightly closed and in a locked, dry, cool area

away from foodstuffs. Storage must be in accordance with NZS 8409 Management

of Agrichemicals.

Stores containing 100L of NANDO require secondary containment and are

subject to signage, and more than 100L require emergency response plans.

Other Information Always read the label and any attached leaflet before use.

Aggregate Storage Volume Thresholds:

When stored with substances of the same hazard classification the aggregate quantity must be considered. For full details refer to the current NZS8409

Management of Agrichemicals and the HSNO Regulations.

8. Exposure controls/personal protection

**Occupational** exposure limit values No exposure limits (WES, TEL or EEL's) have been specifically assigned for

this product.

**Appropriate** engineering controls Handle in well ventilated areas, generally natural ventilation is adequate.

**Personal Protective Equipment** 

When opening the container, preparing spray and using the prepared spray wear

waterproof gloves, cotton overalls buttoned to the neck safety goggles, boots, and a NIOSH approved half face mask with organic vapour and wrist,

cartridge + dust/mist prefilter.

**Hygiene Measures** Do not eat, drink or smoke while using.

Remove protective clothing and wash hands and face thoroughly before meals

and after work. Wash protective clothing daily after work.

9. Physical and chemical properties

Form Liquid





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**Appearance** yellow - orange opaque liquid 100 °C ( aqueous suspension ) **Boiling Point** 

Solubility in Water Disperses in water.

1.26 @ 20°C **Specific Gravity** 

7-9 pН

Flammability Non flammable.

(SC) Suspension Concentrate Other Information

#### 10. Stability and reactivity

**Chemical Stability** Stable under normal conditions of handling and storage.

Hazardous Hazardous polymerisation will not occur.

**Polymerization** 

#### 11. Toxicological Information

**Toxicology** No specific toxicological data is available for this product. Data below is

for constituents. Information

Acute Toxicity - Oral LD50 (rat) >5,000 mg/kg for fluazinam LD50 (rat) >2,000 mg/kg for fluazinam Acute Toxicity -

Dermal

Acute Toxicity -LC50 (rat) 0.463 mg/L for fluazinam

Inhalation

Amounts swallowed incidental to normal handling procedures and use are not Ingestion

expected to cause injury.

However, swallowing of large amounts may cause injury.

May cause irritation to respiratory tract. Inhalation

Skin May irritate the skin. May irritate the eyes. Eye

**Skin Sensitisation** Nando is not considered a skin sensitizer, however, Fluazinam technical

produces a positive result to skin sensitization in guinea pigs.

Reproductive

Suspected reproductive or developmental toxicant.

**Toxicity** 

Subchronic/Chronic

Target organ toxicant - liver (fluazinam)

**Toxicity** 

Other Information

The Australian Acceptable Daily Intake (ADI) for fluazinam for a human is

0.004 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 0.4 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', December 2014).

#### 12. Ecological information

Fluazinam is not rapidly degradable. Persistence and DT50 field soil = 26.5d for fluazinam. degradability

Not bioaccumulative. **Bioaccumulative** 

**Potential** 

Ecotoxicological data have not been determined specifically for this product. **Basis for Assessment** 

Data below is for the active ingredient unless otherwise stated.

LC50 (96h) for rainbow trout is 0.036mg/l for fluazinam **Acute Toxicity - Fish** 

Acute Toxicity -

EC50 (48h) for daphnia magna is 0.18mg/L for fluazinam

Daphnia

Acute Toxicity -EC50 (96h) for Selenastrum capricornutum is 0.16mg/L for fluazinam

Algae

LD50 for bobwhite quail is 1,782mg/kg for fluazinam Acute Toxicity -

LD50 bee (oral) is >100µg/bee, (contact) is >200µg/bee for fluazinam Other Organisms

LC50 (28d) worm is >1,000mg/kg for fluazinam

### 13. Disposal considerations





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**Product Disposal** Dispose of product only by using according to the label, or at an approved

landfill.

Triple rinse empty container and add rinsate to spray tank. Recycle empty **Container Disposal** 

container. Otherwise crush and bury in a suitable landfill.

14. Transport information

It is good practice not to transport agricultural chemical products with **Transport** 

food, food related materials and animal feedstuffs. Information

U.N. Number

UN proper shipping

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (fluazinam, 50%)

Transport hazard

name

class(es)

2 X **Hazchem Code** 

**Packaging Method** 

**Packing Group EPG Number** 

**IERG Number** 

47

III

**IMO Marine** 

Environmentally Hazardous Substance mark required.

**Pollutant** 

**IMDG EMS** 

F-A, S-F

Do not carry more than 10L of NANDO on a passenger service vehicle. Other Information

> Segregation: Check the latest Land Transport Rule Dangerous Goods Rule 45001 for additional information. Sea transport may require additional

segregation. Refer NZS5433 sea segregation for details.

15. Regulatory information

National and or International

Registered pursuant to the ACVM Act 1997, No. P7980 See www.foodsafety.govt.nz for registration conditions

Regulatory

Approved pursuant to the HSNO Act 1996, Approval Code HSR007763

Information

See www.epa.govt.nz for approval controls.

TOXIC \* ECOTOXIC - keep out of reach of children

Packaging &

Labelling

**Hazard Rating** 

NFPA/HMIS: 3-1-0

January 2014

**Systems** 

#### 16. Other Information

Date of preparation or last revision of

SDS

Contact Person/Point IN AN EMERGENCY, DIAL 111 - FIRE OR POLICE

24Hr Tollfree Emergency No: 0800 651 911

24Hr Emergency No: National Poisons Centre Phone: 0800 764 766

5 yearly review carried out. Various changes and updates made to document.

Revisions Highlighted

...End Of MSDS...

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