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Infosafe No™ 3NULC Issue Date : February 2024 ISSUED by NUFARMNZ

Product Name NANDO®

Section 1 - Identification

NANDO® **Product Identifier Product Code** 02995 **Product Type** Fungicide Nufarm NZ **Company Name**

Central Park, Building 3, Level 4, 666 Great South Road Ellerslie Address

Auckland 1051 New Zealand

Telephone/Fax

Number

Tel: 0-9-270 4150

0800 651 911

Emergency Phone Email

Number

Recommended uses and any restrictions

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

potatoes, and vegetable brassicas.

on use or supply

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.

Section 2 - Hazard(s) Identification

Acute inhalation toxicity: Category 4 GHS classification of

Reproductive toxicity: Category 2 the

Specific target organ toxicity - repeated exposure: Category 2 substance/mixture

Hazardous to the aquatic environment acute Category 1 Hazardous to the aquatic environment chronic Category 1

Signal Word (s) WARNING

Hazard Statement (s) H332 Harmful if inhaled

H361 Suspected of damaging fertility or the unborn child

H373 May cause damage to organs through prolonged or repeated exposure

H410 Very toxic to aquatic life with long lasting effects

Precautionary

P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children.

Statement – General

P103 Read carefully and follow all instructions.

Exclamation mark, Health hazard, Environment Pictogram (s)







P201 Obtain special instructions before use. **Precautionary**

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

P260 Do not breathe dust/fume/gas/mist/vapours/spray. Prevention P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for **Precautionary**

breathing.

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

P312 Call a POISON CENTER/doctor if you feel unwell. P314 Get medical advice/attention if you feel unwell.

P391 Collect spillage.

P405 Store locked up. **Precautionary**

Statement - Storage





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P501 Dispose of contents/container to an approved landfill. **Precautionary**

Statement - Disposal

Section 3 - Composition and Information on Ingredients

Chemical

Liquid Characterization

Ingredients CAS Name Proportion

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

Section 4 - First Aid Measures

For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a First-aid Measures

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

attention.

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

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

Seek medical assistance immediately.

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

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

766). Seek medical assistance immediately.

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

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 Eye

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.

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

eyewash facility and safety shower.

Advice to Doctor Treat symptomatically.

Section 5 - Firefighting Measures

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

to suit the burning material. **Extinguishing Media**

Water fog, foam, carbon dioxide or dry chemical.

If involved in a fire, it may emit fluorine compounds, oxides of nitrogen and Hazards from

hydrogen chloride. Combustion

Products

Full protective clothing and self-contained breathing apparatus.

Special protective equipment for fire-fighters

Specific Methods

2X **Hazchem Code**

Information is not available. **Decomposition**

Keep up wind.

Temperature

Location Certificate: Not applicable Other Information

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

Section 6 - Accidental Release Measures

Spills and Disposal Wear protective clothing. Clear area of unprotected personnel.

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

Do not allow washings to reach sewage or effluent systems.

container for disposal in an approved landfill.

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





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Environmental Precautions

Prevent from entering drains, waterways or sewers.

Section 7 - Handling and Storage

Precautions for Safe Handling Do not handle until all safety precautions have been read and understood. The person mixing or applying NANDO must be a 'Qualified Contractor' or 'Qualified Loader'. For more information refer to the Hazardous Substances Property Controls Notice 2017. It is the duty of the PCBU that a person who uses, handles, manufactures or stores a hazardous substance (including hazardous waste) is provided information, instruction and training in accordance with Regulation 4.5 of the Health and Safety at work (Hazardous

Substances) Regulations 2017.

Avoid skin and eye contact and inhalation of spray mist. CERTIFIED HANDLER: Is not required.

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 incompatibilities 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.

Section 8 - Exposure Controls and Personal Protection

Occupational Exposure Limits (OEL) No exposure limits (WES, TEL or EEL's) have been specifically assigned for

this product.

Appropriate Engineering Handle in well ventilated areas, generally natural ventilation is adequate.

Controls Personal Protective Equipment

When opening the container, preparing spray and using the prepared spray wear safety goggles, waterproof gloves, cotton overalls buttoned to the neck and wrist, boots, and a NIOSH approved half face mask with organic vapour

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.

Section 9 - Physical and Chemical Properties

Form Liquid

Appearance yellow - orange opaque liquid
Odour Information is not available.
Decomposition Information is not available.

Temperature

Boiling Point 100 °C (aqueous suspension)

Solubility in Water Disperses in water.

Specific Gravity 1.26 @ 20°C

pH 7-9

Vapour Pressure Information is not available.





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Vapour Density

(Air=1)

Information is not available.

Information is not available. **Odour Threshold** Information is not available. **Partition Coefficient:**

n-octanol/water

Information is not available. **Flash Point**

Non flammable. **Flammability**

Information is not available. **Auto-ignition**

Temperature

Information is not available. Flammable Limits -

Lower

Information is not available. Flammable Limits -

Upper

Initial Boiling Point

Information is not available. and Boiling Range

Information is not available.

Information is not available. **Kinematic Viscosity**

Particle Characteristics

Relative Density Information is not available. Information is not available.

Melting/Freezing **Point**

(SC) Suspension Concentrate **Other Information**

Section 10 - Stability and Reactivity

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

Hazardous polymerisation will not occur. Hazardous

Polymerization

Section 11 - Toxicological Information

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

for constituents. Information

Acute Toxicity - Oral LD50 (rat) >5,000 mg/kg for fluazinam 0.463 mg/L for fluazinam **Acute Toxicity -**LC50 (rat)

Inhalation

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

Dermal

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

expected to cause injury.

However, swallowing of large amounts may cause injury.

May cause irritation to respiratory tract. Inhalation

May irritate the skin. Skin

Corrosion/Irritation Serious Eve May irritate the eyes.

Damage/Irritation

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

produces a positive result to skin sensitization in guinea pigs.

Information is not available. Germ Cell

Mutagenicity

Information is not available. Carcinogenicity

Reproductive **Toxicity**

Suspected reproductive/developmental toxicant.





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STOT - Repeated

May cause damage to the liver from prolonged or repeated exposure.

Exposure

Information is not available. **Aspiration Hazard**

Subchronic/Chronic

Other Information

Toxicity

Target organ toxicant - liver (fluazinam)

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: Aust Govt Dept. of APVMA, 'ADI List', Edition

4/2023).

Section 12 - Ecological Information

Persistence and **Degradability**

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

Mobility

Information is not available.

Bioaccumulative

Not 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.

Acute Toxicity - Fish

LC50 (96h) for rainbow trout is 0.036mg/l for fluazinam

Acute Toxicity -Daphnia

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

Acute Toxicity -

Algae

Acute Toxicity -Other Organisms LD50 for bobwhite quail is 1,782mg/kg for fluazinam LD50 bee (oral) is >100µg/bee, (contact) is >200µg/bee for fluazinam

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

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

Section 13 - Disposal Considerations

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. **Container Disposal** Recycle empty

Otherwise crush and bury in a suitable landfill. container.

Section 14 - Transport Information

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

food, food related materials and animal feedstuffs. Information

UN Number 3082

Proper Shipping

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

Name

Hazard Class 2X **Hazchem Code Packaging Method** III **Packing Group EPG Number**

47 **IERG Number**

IMO Marine

Yes. Environmentally Hazardous Substance mark required.

Pollutant

F-A, S-F **IMDG EMS**

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

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.





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Section 15 - Regulatory Information

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

Approved pursuant to the HSNO Act 1996, Approval Code HSR007763

Regulatory Approved pursuant to the HSNO Act 1996, See www.epa.govt.nz for approval controls.

Packaging and KEEP OUT OF REACH OF CHILDREN

Labelling READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Section 16 - Any Other Relevant Information

Date of preparation March 2019.

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

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

Highlighted Various changes and updates made to the document to comply with GHS7.

...End Of MSDS...

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