


Infosafe No™ 3NV48	Issue Date : December 2019	ISSUED by NUFARM
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 Product Name **BOTECTOR**

1. Identification

GHS Product Identifier	BOTECTOR
Product Code	02560
Product Type	Biological Fungicide
Company Name	Nufarm NZ
Address	6 Manu Street, Otahuhu Auckland 2024 New Zealand
Telephone/Fax Number	Tel: 0-9-270 4150
Emergency phone number	0800 651 911
Email	nzinfo@nufarm.com
Recommended use of the chemical and restrictions on use	A biological fungicide to protect grapes from grey mould (<i>Botrytis cinerea</i>).
Other Information	This SDS describes, to the best of our knowledge, the properties of the 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

Signal Word (s)	DANGER
Hazard Statement (s)	H317 May cause an allergic skin reaction. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
General Precautionary Statement (s)	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.
Pictogram (s)	Health hazard, 
Precautionary statement – Prevention	P261 Avoid breathing dust. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary statement – Response	P285 In case of inadequate ventilation wear respiratory protection. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. P363 Wash contaminated clothing before reuse. P391 Collect spillage.
Precautionary statement – Disposal	P501 Dispose of contents only by using according to the label, or at an appropriate landfill.
Other Information	6.5A Respiratory sensitisation, 6.5B Contact sensitisation, 9.1D Aquatic ecotoxicity

3. Composition/information on ingredients

Chemical Characterization Information on Composition	Solid 5 x 10 ⁹ cfu/g (colony forming units)/g
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Aureobasidium pullulans strains	67891-88-7	1000 g/kg
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4. First-aid measures

First Aid Measures	For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. Begin artificial respiration if the victim is not breathing. Use mouth-to-nose rather than mouth-to-mouth. Obtain medical attention.
Inhalation	Remove patient to fresh air. Lay down and keep warm and rested. If breathing 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.
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.
Eye contact	Flush eyes with plenty of 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.
Advice to Doctor	Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media	Water fog, foam, carbon dioxide or dry chemical.
Hazards from Combustion Products	If involved in a fire, it may emit oxides of carbon.
Special Protective Equipment for fire fighters	Breathable air apparatus must be worn if material is involved in fires especially in confined spaces.
Specific Methods	Keep up wind. Do not allow washings to reach sewage or effluent systems.
Decomposition Temp.	Information not available.
Other Information	Location Certificate: Not applicable Hazardous Atmosphere Zone: Not applicable Number of Fire Extinguishers: Not applicable

6. Accidental release measures

Spills & Disposal	Sweep up product without generating dust. Collect spilled material and waste in sealable open-top type containers for disposal. Dispose of at a landfill in accordance with local regulations.
Personal Protection	For appropriate personal protective equipment (PPE), refer Section 8.
Environmental Precautions	Prevent product or washings from entering drains, waterways or sewers, and prevent contamination of soil.

7. Handling and storage

Precautions for Safe Handling	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. CERTIFIED HANDLER: Not required. TRACKING: Not required. RECORD KEEPING: Not required.
Conditions for safe storage, including any incompatibilities	Store in the closed, original container in a dry, cool, well ventilated area out of direct sunlight. Store (refrigerated) at less than 8°C. DO NOT freeze. The product is stable for 30 months if stored this way. In the absence of cold storage, product stored at 20°C or below is stable for 18 months. Storage must be in accordance with NZS 8409 Management of Agrichemicals.

8. Exposure controls/personal protection

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Occupational exposure limit values	No exposure limits (TEL, ADE or PDE) values have been set for this product.
Appropriate engineering controls	Handle in well ventilated areas, generally natural ventilation is adequate.
Personal Protective Equipment	When opening the container and preparing the spray wear cotton overalls buttoned to the neck and wrist, a washable hat, protective gloves and disposable face mask covering mouth and nose. In case of inadequate ventilation wear respiratory mask. Re-entry period: 4 hours after application unless wearing appropriate personal protective equipment.
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 contaminated clothing daily after use.

9. Physical and chemical properties

Form	Solid
Appearance	Off white to light pink granules
Odour	Odour similar to bread.
Decomposition Temperature	Information not available.
Melting Point	Not applicable.
Boiling Point	Not applicable.
Solubility in Water	Disperses in water.
pH	6.6 (10g/L)
Vapour Pressure	non volatile
Vapour Density (Air=1)	Not applicable.
Partition Coefficient: n-octanol/water	Information not available.
Flash Point	Not applicable.
Flammability	Product is not flammable.
Auto-Ignition Temperature	Not applicable.
Flammable Limits - Lower	Not applicable.
Flammable Limits - Upper	Not applicable.
Kinematic Viscosity	Not applicable.
Other Information	Water Dispersible Granule.

10. Stability and reactivity

Chemical Stability	Stable at 20°C for 18 months and at cool storage (less than 8°C) for 30 months.
Conditions to Avoid	Do not expose the product to temperatures above 40°C. Do not store the product above 20°C for a longer period.
Incompatible Materials	Avoid contact with strong oxidising agents and strong reducing agents.
Hazardous Polymerization	Hazardous polymerisation is not possible.

11. Toxicological Information

Acute Toxicity - Oral	LD50 (rat) >2000 mg/kg for this product
Acute Toxicity - Dermal	LD50 (rat) >2000 mg/kg for this product
Acute Toxicity - Inhalation	LC50 (rat) (4hr) is greater than the maximum attainable test concentration (5.18 mg/l air).

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Ingestion	No specific symptoms. Possible generalised symptoms include nausea and vomiting.
Skin	Dusts may cause slight skin irritation.
Eye	Dusts may cause slight irritation to the eyes.
Respiratory sensitisation	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sensitisation	May cause an allergic skin reaction.
Germ cell mutagenicity	Information not available.
Carcinogenicity	Information not available.
Reproductive Toxicity	Information not available.
STOT-single exposure	Information not available.
STOT-repeated exposure	Information not available.

12. Ecological information

Persistence and degradability	Readily biodegradable.
Mobility	Information not available.
Bioaccumulative Potential	Information not available.

13. Disposal considerations

Product Disposal	Dispose of product only by using according to the label, or at an approved landfill.
Container Disposal	Triple rinse empty container and add rinsate to spray tank. Recycle empty container. Otherwise crush and bury in a suitable landfill.

14. Transport information

Transport Information	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.
Storage and Transport	Not classified as Dangerous Goods for transport in New Zealand.
Other Information	Do not carry more than 3kg of BOTECTOR on a passenger service vehicle.

15. Regulatory information

National and or International Regulatory Information	Registered pursuant to the ACVM Act 1997, No. P9700 See www.foodsafety.govt.nz for registration conditions Approved pursuant to the HSNO Act 1996, Approval Code HSR101029 See www.epa.govt.nz for approval controls.
Packaging & Labelling	Read label before use.

16. Other Information

Date of preparation or last revision of SDS	18th December 2019
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 N/A. First Issue.
Revisions Highlighted	...End Of MSDS...



Safety Data Sheet

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