

Infosafe No™ 3NV5K	Issue Date : November 2020	ISSUED by NUFARMNZ
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 Product Name **GRANDEVO®WDG**

## 1. Identification

<b>GHS Product Identifier</b>	GRANDEVO®WDG
<b>Product Code</b>	03530
<b>Product Type</b>	Biological Insecticide.
<b>Company Name</b>	Nufarm NZ
<b>Address</b>	6 Manu Street, Otahuhu Auckland 2024 New Zealand
<b>Telephone/Fax Number</b>	Tel: 0-9-270 4150
<b>Emergency phone number</b>	0800 651 911
<b>E-mail Address</b>	nzinfo@nufarm.com
<b>Recommended use of the chemical and restrictions on use</b>	A biological insecticide for the control of mealybug in grapes.
<b>Other Information</b>	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

<b>GHS classification of the substance/mixture</b>	Classified as Hazardous according to the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001, New Zealand.
<b>Hazard Statement (s)</b>	H412 Harmful to aquatic life with long lasting effects.
<b>Precautionary statement – General</b>	P103 Read label before use.
<b>Precautionary statement – Disposal</b>	P501 In the case of a substance that is in compliance with a HSNO approval other than a Part 6A (Group Standards) approval, a label must provide a description of one or more appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Regulations 2001. This may also include any method of disposal that must be avoided. See Section 13 for disposal details.
<b>Other Information</b>	9.1C Aquatic ecotoxicant.

## 3. Composition/information on ingredients

Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Chromobacterium subtsugae strain PRAA4-1T and spent formulation media	N/A	30 %
	Sodium lauryl sulfate	151-21-3	5 %
	Other inert ingredients	-	65%

## 4. First-aid measures

<b>First Aid Measures</b>	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.
<b>Inhalation</b>	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.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. If swallowed do NOT induce vomiting. For advice, contact the National Poisons Centre (0800 764

Infosafe No™ 3NV5K	Issue Date : November 2020	ISSUED by NUFARMNZ
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<b>Skin</b>	766). Seek medical assistance immediately. 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.
<b>Eye contact</b>	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.
<b>First Aid Facilities</b>	Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.
<b>Advice to Doctor</b>	Treat symptomatically.

## 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Water spray, alcohol resistant foam, CO2 or dry chemical.
<b>Hazards from Combustion Products</b>	None.
<b>Special Protective Equipment for fire fighters</b>	Full protective clothing and self-contained breathing apparatus.
<b>Specific Methods</b>	Keep up wind to avoid inhalation of gases, vapours, fumes and smoke. Do not allow washings to reach sewage or effluent systems.
<b>Decomposition Temp.</b>	Data not available.
<b>Other Information</b>	Location Certificate: Not applicable Hazardous Atmosphere Zone: Not applicable Number of Fire Extinguishers: Not applicable

## 6. Accidental release measures

<b>Spills &amp; Disposal</b>	Wear protective clothing. Clear area of unprotected personnel. Sweep up solids without generating dust (use water to dampen). Contain and absorb liquid spills with inert material and place in waste containers. If spill does enter waterways contact the local authority. Collect in an appropriate sealable container for disposal in an approved landfill.
<b>Personal Protection</b>	For appropriate personal protective equipment (PPE), refer Section 8.
<b>Environmental Precautions</b>	Avoid discharge to the aquatic environment.

## 7. Handling and storage

<b>Handling and Storage</b>	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.
<b>Precautions for Safe Handling</b>	Do not breathe dust, spray, mists. CERTIFIED HANDLER : Is not required. TRACKING: Is not required. BEWARE: Spray drift hazard. Apply this product carefully. Do not apply to areas vulnerable to runoff. If rainfall is imminent, delay spraying. WARNING: GRANDEVO WDG might not be compatible with Integrated Pest Management (IPM). The best available technique which minimises off-target drift should be used to reduce effects on wildlife in the field boundary.
<b>Conditions for safe storage, including any incompatibilities</b>	Keep out of reach of children. Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs, fertilisers and seeds. Storage must be in accordance with NZS 8409 Management of Agrichemicals. Stores containing 1000kg of GRANDEVO WDG require signage and emergency response plans.
<b>Other Information</b>	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

Infosafe No™ 3NV5K	Issue Date : November 2020	ISSUED by NUFARMNZ
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 Product Name **GRANDEVO®WDG**

quantity must be considered. For full details refer to the current NZS8409 Management of Agrichemicals and the HSNO Regulations.

## 8. Exposure controls/personal protection

<b>Occupational exposure limit values</b>	No ADE and PDE values have been set for the product. No TEL or EEL's have been set for this product.
<b>Appropriate engineering controls</b>	Handle in well ventilated areas, generally natural ventilation is adequate. Avoid generation of dust when handling solid. If dust generation is unavoidable, use forced draft to keep dust away from operator, or wear suitable dust respirator.
<b>Personal Protective Equipment</b>	When opening the container, preparing spray and using the prepared spray wear safety goggles, washable hat, waterproof gloves, cotton overalls buttoned to the neck and wrist, and boots.
<b>Hygiene Measures</b>	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

<b>Form</b>	Solid
<b>Appearance</b>	Purplish to greyish brown granules.
<b>Odour</b>	Sweet, musty
<b>Decomposition Temperature</b>	Data not available.
<b>Melting Point</b>	Not applicable.
<b>Boiling Point</b>	Not applicable
<b>Solubility in Water</b>	Disperses in water.
<b>pH</b>	5.0-7.0 (1% solution in water)
<b>Vapour Pressure</b>	Data not available.
<b>Vapour Density (Air=1)</b>	Data not available
<b>Partition Coefficient: n-octanol/water</b>	Data not available.
<b>Density</b>	0.4-0.7 g/ml
<b>Flash Point</b>	Data not available.
<b>Flammability</b>	Data not available.
<b>Auto-Ignition Temperature</b>	Not applicable
<b>Flammable Limits - Lower</b>	Data not available.
<b>Flammable Limits - Upper</b>	Data not available.
<b>Explosion Properties</b>	Not explosive
<b>Oxidising Properties</b>	Data not available.
<b>Kinematic Viscosity</b>	Data not available.
<b>Other Information</b>	Water Dispersible Granule.

## 10. Stability and reactivity

<b>Chemical Stability</b>	Stable under normal conditions of handling and storage.
<b>Conditions to Avoid</b>	None.
<b>Incompatible Materials</b>	Data not available.

Infosafe No™ 3NV5K	Issue Date : November 2020	ISSUED by NUFARMNZ
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 Product Name **GRANDEVO®WDG**

<b>Hazardous Decomposition Products</b>	None known.
<b>Possibility of hazardous reactions</b>	Not known to occur.
<b>Hazardous Polymerization</b>	Not known to occur.

## 11. Toxicological Information

<b>Toxicology Information</b>	No harmful effects are expected if the precautions on the label and this SDS are followed.
<b>Acute Toxicity - Oral</b>	LD50 (rat) >5000 mg/kg for GRANDEVO WDG
<b>Acute Toxicity - Dermal</b>	LD50 (rat) >5000 mg/kg for GRANDEVO WDG
<b>Acute Toxicity - Inhalation</b>	LC50 (rat) (4hr) >5.21 mg/l for GRANDEVO WDG
<b>Eye</b>	Not an eye irritant.
<b>Respiratory sensitisation</b>	Not a sensitiser.
<b>Skin Sensitisation</b>	Product is not a skin sensitiser.
<b>Germ cell mutagenicity</b>	Not mutagenic (active ingredient)
<b>Carcinogenicity</b>	No data available though low inherent toxicity and genotoxicity makes it unlikely.
<b>Reproductive Toxicity</b>	Although there is no data available, the low inherent toxicity and lack of genotoxicity makes reproductive and developmental toxicity potential unlikely.
<b>STOT-single exposure</b>	Although no data available, the low inherent toxicity makes the potential for target organ toxicity low.
<b>Aspiration Hazard</b>	Not relevant. Solid.
<b>Mutagenicity</b>	Data not available.
<b>Skin corrosion/irritation</b>	Not a skin corrosive.

## 12. Ecological information

<b>Persistence and degradability</b>	No studies have been performed assessing the persistence and mobility of the active substance in soil. It is considered since the product is an inactive and dead microbial formulation, standard degradation studies are not relevant in this case. Toxicity to soil organisms is not expected therefore any risks to soil organisms are considered negligible.
<b>Bioaccumulative Potential</b>	Insufficient information available to conclude whether the substance is not bioaccumulative or persistent.
<b>Other Precautions</b>	Do not spray in high winds. Do not contaminate dams, waterways or sewers with this product or the containers which have held this product.
<b>Environmental Protection</b>	Spray drift can cause damage, read the label for more information.
<b>Acute Toxicity - Fish</b>	LC50 (96hr) for Onchorhynchus mykiss (Rainbow Trout) 71 mg/l for formulated product.
<b>Acute Toxicity - Daphnia</b>	EC50 (48hr) (Daphnia Magna) 25mg/L for formulated product.
<b>Acute Toxicity - Other Organisms</b>	Bees: LD50 (contact) >100µg/bee, (oral) >100 µg/bee for formulated product. Worms: LC50 (growth) could not be determined NOEC (growth) could not be determined EC50 (reproduction) estimated as 357.0 mg ai/kg dry soil NOEC (reproduction) = 125 mg ai/kg dry soil

Infosafe No™ 3NV5K Issue Date : November 2020 ISSUED by NUFARMNZ

Product Name **GRANDEVO@WDG**

### 13. Disposal considerations

**Product Disposal** To avoid disposal all attempts should be made to utilise the product completely in accordance with it's registered use. Dilute unusable product according to the label and pour onto fallow land. Prevent the product entering natural water sources.

**Container Disposal** Ensure container is completely empty. Crush and bury in a suitable landfill. Dispose of product only by using according to the label, or at an appropriate 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** 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 Regulatory Information** Registered pursuant to the ACVM Act 1997, No. P9765  
See [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) for registration conditions  
Approved pursuant to the HSNO Act 1996, Approval Code HSR101407  
See [www.epa.govt.nz](http://www.epa.govt.nz) for approval controls.

### 16. Other Information

**Date of preparation or last revision of SDS** N/A. First Issue.

**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  
...End Of MSDS...

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