

KEEP OUT OF REACH OF CHILDREN | READ LABEL BEFORE USE

Clarity

BIOLOGICAL FUNGICIDE

For the Biological Control of Botrytis, Powdery Mildew and Sour Rot on Grapes; Botrytis on Berryfruit, Kiwifruit and Onions, and various diseases on Citrus, Lettuce and Turf.

ACTIVE INGREDIENT: *Bacillus velezensis* (Strain MBI600) 110g/kg
Containing a minimum of 5.5×10^{10} cfu/g in the form of a wettable powder.

DESIGNED FOR BIOCIDAL ACTION. To avoid risks to human health and the environment, comply with the instructions for use.

PRODUCT DISPOSAL: Dispose of this product only by using according to the label or at an approved landfill.

CONTAINER DISPOSAL: DO NOT reuse the container for any other purpose. Ensure container is completely empty. Triple rinse empty container and add rinsate to the spray tank. Recycle container through Agrecovery (0800 247 326, www.agrecovery.co.nz).

HANDLING PRECAUTIONS: When mixing or applying, avoid contact with eyes and skin. Wear a long-sleeved shirt, long pants, shoes plus socks, water proof gloves, eye goggles and a dust/mist filtering respirator (MSH/NIOSH approval number prefix TC-21C) or a NIOSH approved respirator with any N-95, R-95, P-95 or HE filter for biological products when handling, mixing/loading or applying the product and during all clean up/repair activities. Wash hands and face with soap and water after handling. Remove contaminated clothing and wash before reuse. When using, do not eat, drink or smoke. Flush spray equipment thoroughly with water after use. Keep away from food, drink and animal feedstuffs. For more information, refer to Safety Data Sheet (SDS).

STORAGE: Store in original closed container in a locked, dry, cool, well ventilated area, away from feed and foodstuffs. Store at temperatures between 5°C and 25°C. Storage must be in accordance with the current version of NZS8409 Management of Agrichemicals. See SDS for more details.

SPILLAGE: Wear appropriate protective clothing and prevent material from entering waterways. Absorb spills with inert material and place in waste containers. Sweep up solids without creating dust. Wash area with water and absorb with further inert material. Dispose of waste safely.

USE AND ENVIRONMENTAL PROTECTION: DO NOT apply directly to water. DO NOT contaminate water when cleaning equipment or disposing of equipment wash waters or rinsate. DO NOT contaminate surface water with chemical or empty container.

FIRST AID: If medical advice is needed, have product container or label at hand. If swallowed rinse mouth and drink plenty of water. Do not induce vomiting. For advice contact the National Poisons Centre 0800 764 766 immediately. If skin or clothing contact occurs, take off contaminated clothing and wash skin with soap and water. If in eyes, hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. If inhaled, keep patient calm, remove to fresh air.

GENERAL INFORMATION: Clarity has been developed from a naturally occurring strain of *Bacillus velezensis*. It is a preventative biological fungicide recommended for the control of botrytis, powdery mildew and sour rot in grapes; botrytis in citrus, kiwifruit, strawberries, berryfruit, onion and ornamentals during periods of low disease pressure. Clarity is a suppressive biological fungicide for anthracnose, greasy spot and melanose in citrus. Clarity is also recommended for the control of *sclerotinia minor* in lettuce; anthracnose, brown patch, dollar spot, powdery mildew and rust in turf; and downy mildew in onion. Clarity should be applied prior to or in the early stages of disease development.

APPLICATION PROCEDURE: Thorough coverage is essential for optimum disease control. To achieve good coverage, ensure correct spray pressure is used. Water volume nozzle-size and spacing with the correct ground speed are critical. Sprayers should be calibrated prior to use. Clarity is intended for use as a dilute spray in water for application through conventional ground spray equipment.

MIXING DIRECTIONS: Partially fill spray tank with clean water. Add the specified amount of Clarity to the spray tank while agitating. Complete filling the tank to the required volume for the area to be treated. Maintain agitation until application is complete. Do not stand the diluted mixture for prolonged periods or overnight.

COMPATIBILITY: Do not combine Clarity in the tank with other pesticides, surfactants, fertilisers or copper based products unless prior experience has indicated compatibility. Ensure spray equipment is thoroughly rinsed of residual chemical prior to using Clarity.

REGISTRANT: BASF New Zealand Limited, PO Box 407, Auckland 1104.

DISTRIBUTOR: Grochem (Agrinova New Zealand Ltd), Sunlight Grove, Porirua, New Zealand.

Batch:

DoM:

GCLAR/0524

NET CONTENTS
265g

RECOMMENDATIONS: It is an offence to use this product on animals.

CROP	DISEASE	REMARKS
Application rate: 265–530g/ha in sufficient water to ensure complete coverage of plants.		
Citrus	Botrytis	Apply at 50% flowering and repeat at 7–10 day intervals if disease conditions persist. Ensure high volume application with surfactant for coverage. Apply at monthly intervals from early flowering to harvest.
	Anthracnose Greasy spot	For suppression, begin applications at first leafy flush and repeat at later flushes. Include spray oil in tank mixture. May be mixed with other fungicides such as Nordox 75WG.
	Melanose	For suppression, begin applications at petal fall and repeat at 14–21 day intervals.
Grapes	Botrytis Powdery mildew Sour rot	Clarity can be used all season but specific botrytis fungicides should be targeted at key grape botrytis timings. Clarity can be used later in the season as it has nil residues and no withholding period restrictions. Two applications of Clarity are recommended at 4–5 weeks from harvest and again at 1 week from harvest. An alternative botrytis fungicide is recommended between the two Clarity applications. Use the higher application rate and shorter interval when conditions favour rapid disease development. Apply in sufficient water to ensure thorough coverage of all parts of the plants.
	Kiwifruit	Botrytis
Strawberries Berryfruit	Botrytis	Apply from early flowering and during harvest at 10–14 day intervals if disease conditions persist. Repeat in an alternating programme with other fungicides.
Lettuce	<i>Sclerotinia minor</i>	Does not control <i>sclerotiorum</i> . Apply as a soil drench immediately before or after transplanting or seedling crop emergence. Repeat as necessary before crop coverage of the soil and alternate with another fungicide for greater disease control spectrum.
Onions	Botrytis, Downy mildew	As part of an integrated spray programme, apply pre-harvest for the moderate control and suppression of diseases.
Turf	Anthracnose, Brown patch, Dollar spot, Powdery mildew, Rust	Apply when conditions are conducive to disease development. Use the higher rate for improved control and the lower rate when in tank mixture with a suitable fungicide or in a rotation programme with alternative chemistry. Repeat as necessary at 7–10 day intervals.
Ornamentals	Botrytis and powdery mildew	Apply at the first sign of disease and repeat at 7–10 day intervals.
NOTE: For the control of any disease, use alternative fungicides when disease pressure is high and during the rest of the season prior to harvest.		



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WARRANTY: The product must be used strictly in accordance with the label directions and instructions. BASF and its distributors accepts no liability or responsibility for any consequential loss or otherwise arising from failure to follow these directions and instructions. The liability of BASF and its distributors is limited to that imposed by Statutes and, in any case, the liability is strictly limited to replacement of the product or (at the option of BASF and its distributors) the refund of the price paid.

Registered pursuant to the ACVM Act 1997, P7957. See www.foodsafety.govt.nz for registration conditions. Approved pursuant to the HSN0 Act 1996, Approval Code HSR008016. See www.epa.govt.nz for approval controls.

DISTRIBUTED BY: Grochem Agrinova New Zealand Ltd, 15 Sunlight Grove, Porirua 5022, New Zealand.



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