

KEEP OUT OF REACH OF CHILDREN

Companion[®] Gold

FUNGICIDE

Contains: 0.3g/l Dried *Bacillus subtilis* (GB03 Strain) and contains not less than 1.5×10^7 cfu/ml in a suspension concentrate

A bio-fungicide for prevention, control and suppression of powdery mildew, sour rot and botrytis on grapes and ornamentals.

A microbial inoculant for horticulture, agriculture and specialty use (N-P-K 2-1.3-1.6)

PLEASE READ THE ENTIRE LABEL BEFORE MIXING OR USE. SHAKE WELL BEFORE USE.

HAZARD CLASSIFICATION: 6.3B , 6.4A , 9.1D

WARNING: Harmful, may cause skin and eye irritation. Avoid contact with skin or eyes.

FIRST AID: If swallowed do NOT induce vomiting. For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If splashed in eyes, wash out immediately with water.

PERSONAL PROTECTION: Avoid skin and eye contact and inhalation of spray mist. When mixing or applying wear waterproof gloves, eye protection, boots and overalls. Do not eat, drink or smoke while using. Wash splashes of concentrate from skin immediately. Remove protective clothing and wash hands and face thoroughly before meals and after work. Wash protective clothing daily after work.

ECOTOXIC: Harmful to aquatic organisms. Avoid contamination of any water supply with product or empty containers.

STORAGE: Store in original container, tightly closed and in a dry, cool area from direct sunlight and away from foodstuffs. Store in accordance with NZS 8409 Management of Agrichemicals.

DISPOSAL: Triple rinse empty container and add rinsate to the spray tank. If recycling, discard cap and deliver clean container to an Agrecovery depot. Alternatively crush and bury in a suitable landfill. Dispose of product only by using according to the label, or at an approved landfill.

SAFETY DATA SHEET: Additional information is listed in the SDS available from Lonza NZ Limited or www.lonza.co.nz

Approved pursuant to the HSNO Act 1996, No: HSR000971. See www.epa.govt.nz for approval conditions.

Registered pursuant to the ACVM Act 1997, No: P007855. See www.foodsafety.govt.nz for registration conditions.

It is an offence to use this product on animals.

DIRECTIONS FOR USE: Bio Fungicide

Companion Gold contains a naturally occurring GBO3 strain of *Bacillus subtilis* bacteria that acts as a broad spectrum preventative fungicide recommended for the control of powdery mildew, Botrytis and sour rot in grapes and powdery mildew and Botrytis in ornamentals during periods of low disease infection pressure. Companion Gold has multiple modes of action. It produces a broad spectrum antibiotic that disrupts pathogen cell wall formation. Beneficial colonies of GBO3 are established on the leaves preventing the growth of foliar pathogens. GBO3 is known to stimulate phytohormones which trigger the plants systemic resistance to disease. Companion Gold can be integrated into an overall disease and pest management strategy wherever fungicide use is necessary in an IPM programme. Thorough coverage is essential for optimum disease control. Companion Gold is also an important tool in resistance management strategies. Companion Gold should be applied prior to or in the early stages of disease development.

CROP	DISEASE	RATE	COMMENTS
Grapes	Powdery mildew	200 - 400 ml/ 100 litres of water	Commence application when new shoots are 1.25 to 4.0 cm long. Repeat when shoots are 8 to 13 cm long. Then apply at 7 to 10 day intervals until disease conditions no longer exist. Use the higher rate and shorter interval when conditions favour rapid disease development. Apply in sufficient water to ensure thorough coverage.
	Botrytis, Sour rot	200 - 400 ml/ 100 litres of water	Make applications at 7 - 10 day intervals as a bunch-line spray when disease pressure is low. Where disease conditions are high, or during periods of high risk (e.g. wet, humid weather), use a specific Botrytis fungicide. Apply in sufficient water to ensure thorough coverage.
Ornamentals	Powdery mildew, Botrytis	200 - 400 ml/ 100 litres of water.	Apply before or at first sign of disease and repeat at 7 - 10 day intervals.

DIRECTIONS FOR USE: Microbial Inoculant

The naturally occurring GBO3 strain of *Bacillus subtilis* is a gram positive bacterium that quickly colonizes the plants root hairs. The nutrient rich formulation, which contains an elemental nutrient analysis % of; N-P-K 2.0-1.3-1.6 plus Ca 1.0 & Mg 0.5, assists with this colonization. All to support healthy plant growth. This product can be used as a drench at the time of seeding, as a plug drench at transplanting, and during the growing season as a broadcast foliar application. Use on all types of bedding plants, perennials, cut flowers, all types of plugs, woody ornamentals, nursery crops, fruit trees, vines, foliage plants, vegetables and container plants.

APPLICATION	RATE	COMMENTS
Soil drench	10 - 200 ml/ 100 litres	Begin applications from seeding, sticking of cuttings or after transplanting. Thoroughly soak the growing media through the root zone. Repeat at 14 - 28 day intervals
Field application	2 - 4 litres/ ha	Early season applications should be band applied ensuring good coverage of the soil. As the crop develops later sprays can be broadcast applications. Apply in 400l/ha water and repeat at 7-14 day intervals
Hydroponics Closed re-circulating systems (NFT)	Charging rate 250 ml/ 1000 litres Recharge rate 150 ml/ 1000 litres	The water is usually changed weekly. Clean mix tank at each change. Pre-soak transplants in same solution mix.
Hydroponics Open system	1250 ml/1000 litres	Repeat every 14 - 28 days or by checking the quality of the roots

It is an offence for users of this product to cause residues exceeding the relevant MRL in Food Notice: Maximum Residue Levels for Agricultural Compounds.

WITHHOLDING PERIOD: Companion Gold can be applied up to, and including day of harvest.

APPLICATION PROCEDURE: Thorough coverage is essential for optimum disease control. To achieve good coverage, use the correct spray pressure, water volume nozzle-size and spacing with the correct ground speed are critical. Sprayers should be calibrated before use. To do this, consult spray nozzle catalogues and other industry references for specific information on sprayer calibration or contact a registered sprayer calibration consultant. Companion Gold is intended for use as a dilute spray in water for application through conventional ground spray equipment.

MIXING DIRECTIONS: Partially fill the spray tank with clean water and start agitation. Add the specified amount for the area to be treated of Companion Gold to the spray tank. Complete filling the tank to the required volume for the area to be treated. Maintain agitation until spraying is complete. Do not allow the spray mixture to stand overnight or for any prolonged periods.

COMPATIBILITY: Companion Gold is compatible with most fungicides, herbicides, insecticides, surfactants and fertilisers. Do not mix with copper based fungicides or bactericides. Observe the most restrictive labelling limitations of the mixture product. Spray pH must be not less than pH 4 and not greater pH 9.

NOTICE TO BUYER: The manufacturer and vendors of Companion Gold warrant the formulation to contain the specified active ingredient within accepted tolerance but make no warranty of any kind on the uses of material and accept no responsibility, whether the material is used in accordance with the label directions or not.

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