

DANGER
KEEP OUT OF REACH OF CHILDREN
ECOTOXIC

Guardian

Active Ingredient: 500 g/litre Carbendazim in the form of a suspension concentrate.
Also contains 30 g/L ethylene glycol.

GROUP 1 FUNGICIDE

A broad spectrum fungicide for the control of a range of diseases of grass seed and selected fruit, vegetable and cereal crops and for the control of the causal organism (*Pithomyces chartarum*) of facial eczema

10L

Registered pursuant to the ACVM Act 1997, No. P9945
See www.foodsafety.govt.nz for registration conditions.
Approval pursuant to the HSNO Act 1996, Approval Code HSR000453
See www.epa.govt.nz for approval controls.

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AGPRO

**READ LABEL COMPLETELY BEFORE
OPENING AND USING PRODUCT
SHAKE OR STIR WELL BEFORE USE**



HAZARD CLASSIFICATIONS:

Germ cell mutagenicity Category 1,
Reproductive toxicity Category 1, Specific
target organ toxicity (repeated exposure)
Category 2, Hazardous to soil organisms,
Hazardous to the aquatic environment
acute Category 1, Hazardous to the
aquatic environment chronic Category 1.

TOXICITY

DANGER - Causes genetic defects.
May damage fertility or the unborn child.
May cause damage to organs through
prolonged or repeated exposure.

ECOTOXICITY

Very toxic to aquatic life and with
long-lasting effects. Toxic to the soil
environment.

QUALIFIED HANDLER

Required when mixing, loading, or
application of this product, either by air or
ground based methods.

RECORD KEEPING

Where 3 kg or more of Guardian is applied
within 24 hours, in a place where the
product is likely to enter air or water
and leave the application area, ensure a
written record is kept of each application
of the product.

HANDLING PRECAUTIONS

Keep out of reach of children. Do not eat,
drink or smoke while using.
Obtain special instructions before use.
Do not handle until all safety precautions
have been read and understood.

Do not breathe spray mist or vapours.
Use personal protective equipment as
required.

EQUIPMENT

Apply using accurately calibrated and
maintained equipment in accordance
with the New Zealand Standard for the
Management of Agrichemicals (NZ58409).
Flush spray equipment thoroughly with
water after use.

STORAGE

Store locked up in the original, tightly
closed container in a cool, dry place,

out of direct sunlight and away from
stockfeed or foodstuffs.
Store in accordance with the current
version of NZS 8409 Management
of Agrichemicals. Signage, secondary
containment and emergency response
plan are required when 100 L or more of
this product is stored.

PERSONAL PROTECTION

When mixing or applying wear appropriate
protective clothing including cotton
overalls buttoned to the neck and wrist,
impervious, elbow-length gloves. Remove
protective clothing and wash hands, arms
and face with soap and water before
meals and after work. Wash clothing and
personal protection equipment before
reuse.

SPILLAGE

Exclude all bystanders from the vicinity
of the spill and prevent material from
entering waterways. Wear appropriate
protective clothing as described under
Personal Protection. Absorb spills with an
inert material (such as vermiculite, earth,
sand or synthetic absorbent substance)
and place in labelled waste containers
that can be sealed. Wash area with
water and alkaline detergent. Absorb
any remaining liquid with further inert
material. Dispose of the waste safely in
an approved landfill.

DISPOSAL

Container Disposal: Triple rinse empty
container and add rinsate to spray
tank. Submit clean empty container to
a hazardous waste facility for recycling.
Alternatively, puncture and bury in a
suitable landfill. Avoid contamination of
any water supply with product or empty
container.

Product Disposal: Dispose of this product
only by using according to the label, or
through a pesticide waste service or other
approved facility.

TRANSPORT

Do not carry this product on a passenger
service vehicle.

EMERGENCY RESPONSE

In a TRANSPORT EMERGENCY call 111,
Police or Fire Brigade.

FIRST AID

For advice or if you feel unwell or are
exposed or concerned, contact the
National Poisons Centre 0800 POISON
(0800 764 766) or doctor immediately.
If swallowed do not induce vomiting.
Rinse mouth. If in eyes, wash out

immediately with running water for
several minutes. If skin or hair contact
occurs, remove contaminated clothing
and wash with soap and running water.
If inhaled, immediately move to fresh air
and rest. Maintain half upright position if
breathing is difficult.

DIRECTIONS FOR USE

**Take all reasonable steps to ensure
that the product does not cause any
significant adverse effects to the
environment beyond the application
area.**

**Do not apply onto or into water.
It is an offence to use this product on
animals.**

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

WITHHOLDING PERIODS

Stonefruit:	Do not use after start of petal fall.
Kiwifruit:	Do not apply after petal fall.
Apples:	7 days
Cucurbits:	7 days
Grapes:	7 days
Raspberries, brambles, strawberries:	1 day
Lettuce:	21 days
Beans:	14 days
Tomatoes (field and glasshouse):	3 days
Wheat, barley:	60 days
Onions:	14 days
Ryegrass seed crops:	Allow 14 days between last application and harvest (cutting). Allow 35 days between last application and introduction of stock for grazing.

MIXING

STIR OR SHAKE WELL BEFORE USE.
Pour the correct amount of Guardian into
the partly filled tank and while agitating
add the remainder of the water. The
addition of a wetting/penetrating agent
will improve distribution and uptake on
hard to wet plants. Continue agitation
while spraying.

APPLICATION

The dilution rates suggested are for high volume
spraying to run-off. For concentrate spraying,
adjust dilution rate accordingly. Use higher
rate when conditions favour disease. For boom
spraying use sufficient water to obtain complete
coverage of the crop.

COMPATIBILITY

Guardian is compatible with most common
pesticides except some highly alkaline materials
such as Bordeaux mixtures or lime sulphur.

RESISTANCE MANAGEMENT

Guardian contains the GROUP 1 benzimidazole
fungicide, carbendazim. Do not use another
product containing a fungicide in the same group
in conjunction with Guardian, and alternate
with fungicides from a different group. Avoid
benzimidazole use where resistant strains of
the pathogen are known or are likely to occur.
If resistance frequency is nil or low, use a
maximum of two applications per crop per 12
month period (unless otherwise specified in
the directions for use), including crops where
benzimidazoles may be indicated for the control
of two or more pathogens, e.g. *Sclerotinia* spp.
and *Botrytis* spp. in vegetables. Confine use to
periods when disease risk is high, but disease
level is low. Where practical apply in a mixture
with a protectant fungicide. Comply with the label
application rates at all times. Practise good crop
hygiene and cultural controls.

CONDITIONS OF SALE

As the use of this product is beyond the control of
AGPRO NZ Ltd, no warranty expressed or implied,
beyond that covered under the Fair Trading Act is
given by AGPRO NZ Ltd regarding its suitability,
fitness, or efficacy for any purpose for which it
is used by the user, whether in accordance with
the directions or not. AGPRO NZ Ltd accepts no
responsibility for any consequence whatsoever
resulting from the use of this product.

Registered to:

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Tel: (021) 02886306

Batch Number:

Date of Manufacture:

Crop	Disease	Rate	Note
Apples	Blackspot	25ml/100L water	Apply in combination with a non-benzimidazole fungicide. Confine use to the period from second cover to pre-harvest when infection pressure is high. Do not apply more than twice in any growing season.
Beans	Botrytis, Sclerotinia	2L in 700-1000L water/ha	Apply during the early season period immediately after emergence. Use no more than 2 applications per season.
Barley	Scald	300-500ml in 200L water/ha	For combined eyespot and scald control use as for eyespot below. For scald control apply the high rate at the first sign of disease. Use no more than 2 applications per season.
Barley Wheat	Eyespot	300-500ml in 200L water/ha	To prevent build-up of resistant strains of eyespot, do not apply on cereal crops in the same paddock for more than 2 consecutive seasons. Apply 300 mL rate at Feekes G.S. 7-8 and 500 mL at Feekes G.S.5.
Citrus	Blue Mould	50ml/100L water	Dip fruit in mixture for about 30 seconds. Resistance is widespread. Use only in regions where control of blue mould is still effective.
	Melanose, Verrucosis	25ml/100L water	Make one application pre-bloom and another immediately post bloom. If conditions are wet over summer, use alternative protective fungicides.
Cucurbits	Powdery Mildew	300-500ml in 1000L water/ha	Apply on a regular schedule throughout the season.
Grapes	Botrytis	50ml/100L water	Resistance management: Use only 1 application per season in a program with alternative fungicides registered for this use.
Kiwifruit	Sclerotinia	50 mL/100 L water or 1 L/ha	One application during full bloom. Do not apply after petal fall.
Kumara	Scurf	250ml/50L water	Immerse plants for 3 minutes prior to setting out in the field.
Lettuce	Sclerotinia	2L in 600-1000L water/ha	Apply soon after transplanting or emergence of direct seeded crops. Use no more than 2 applications per season.
Maize	Head smut	100ml/0.8L water	To treat 45kg of seed, mix with 100g Captan (80% active formulation) to form a slurry.
Onions	Botrytis	500ml in 400-600L water/ha	Apply at flag stage, and again 14-21 days later. Treat again 30 days before harvest with a further application 10-14 days later if infection persists. Apply no more than 4 applications per season, and use in a program with alternative botryticides of different chemical groups.
	Smut (seed treatment)	100ml/400g of seed	Wet onion seed with methyl cellulose - 25g/500 mL; use 20 mL/3 kg of seed. Add Guardian and shake thoroughly to ensure complete coverage.
Pasture	Facial eczema control	300 ml in 100-400L water/ha	Ensure complete coverage of all areas likely to be grazed, e.g. under and through fences, hedges and trees. Add suitable surfactant. Protection normally lasts for up to 6 weeks. Where possible pastures should be treated in anticipation of danger. In early February, treat enough pasture for 14 days grazing, then treat further areas as required so stock will graze 7-10 days after spraying. During danger periods limit stock to treated areas. In an emergency situation, stock may graze pasture sprayed at least 24 hours earlier and obtain worthwhile protection.
Raspberries Brambles	Botrytis, Cane spot	50ml/ 100L water	Resistance management: Use no more than one application per season, in a program with alternative fungicide registered for this use.
Ryegrass Seed crops	Blind seed disease	500ml in 200L water/ha	Apply 10-14 days after early flowering to reduce secondary infection. Under moist, cool or irrigated conditions, and in paddocks with a persistent blind seed problem, a second application may be needed.
Strawberries	Botrytis, Leaf spot	500ml/1000L water/ha	Use no more than one application per season, in a programme with alternative fungicides registered for this use.
Stonefruit	Brown rot, Peach scab	25-50ml/100L water	Apply during blossom period only. Use no more than 2 applications per season. When disease pressure is severe, use the higher rate.
Tomatoes Field Glasshouse	Sclerotinia	2L in 700-1100L water/ha	Begin applications soon after transplanting or seedling emergence. Use no more than 2 applications per season.
	Botrytis fruit rot	50ml/100L water	Begin application when first flowers appear.