

BioCarb-K

Reg. No. L11339 Act No. 36 of 1947

GROUP NC FUNGICIDE

READ THE LABEL BEFORE USE
KEEP OUT OF REACH OF CHILDREN & ANIMALS

A potassium bicarbonate fungicide
for the suppression of *Botrytis* and
Powdery mildew on crops as listed.



HAZARD SYMBOL	GHS HAZARD STATEMENTS	GHS PRECAUTIONARY STATEMENTS
	HARMFUL IF INHALED CAUSES SERIOUS EYE IRRITATION MAY CAUSE RESPIRATORY IRRITATION HARMFUL TO AQUATIC LIFE	<ul style="list-style-type: none">Wear protective gloves/protective clothing/eye protection.In case of inadequate ventilation, wear respiratory protection.Avoid inhaling dust, mist or spray.Wash hands and face thoroughly after handling. Do not touch eyes.

Active Ingredient: Potassium bicarbonate - 990 g/kg.



BIO DISEASE MANAGEMENT

Registration holder:
Andermatt Madumbi (Pty) Ltd.
Unit 19 Midway Square, 1 Prospect Place, Howick, 3290, KwaZulu-Natal, South Africa.
Tel: +27 (0) 33 342 3984 (09:00 to 16:00)
Email address (Technical): support@andermatt.co.za
Emergency Number: GPIC: +27 (0) 82 446 8946 (24 H)
In case of poisoning, call the Poison Information Helpline:
+27 861 555 777
www.andermatt.co.za

Country of Origin: China

See pack for details
 Net Mass: 25 kg
Batch No.:
Date of Manufacture:
Expiry Date: 24 months
from date of manufacture.
UN No.: Not relevant
Pack Size:



Product suitable for use in Organic Farming in accordance with: Regulations (EU) No 2018/848 and 2021/1165 and the NOP Regulation. **Controlled by ECOCERT F-32600**



WARNINGS

GHS Hazard Statement:	
Harmful if inhaled.	May cause respiratory irritation.
Causes serious eye irritation.	Harmful to aquatic life.

DISCLAIMER

Although this remedy has been extensively tested under a large variety of conditions, the Registration Holder does not warrant that it will be efficacious under all conditions because the action, and effect thereof, may be affected by factors such as abnormal soil, climatic and storage conditions, quality of dilution water, compatibility with other substances not indicated on the label, as well as by the methods, time, and accuracy of application. The Registration Holder, furthermore, does not accept responsibility for damage to crops, vegetation, the environment or harm to man or animals, the lack of performance of the remedy concerned, due to failure of the user to follow the label instructions, or to the occurrence of conditions which could not have been foreseen in terms of registration. Please consult the Supplier in the event of any uncertainty.

PRECAUTIONS

GHS Precautionary Statements	
Wear protective gloves/protective clothing/eye protection.	IF IN THE EYES: Rinse carefully with water for several minutes.
Store locked up in a well-ventilated place. Keep container tightly closed.	Remove contact lenses, if present and easy to do. Continue rinsing.
Do not eat, drink, or smoke when using this product.	If eye irritation persists: Get medical help.
Use only outdoors or in a well-ventilated area.	Get medical help if you feel unwell.
Wash hands and face thoroughly after handling. Do not touch eyes.	Avoid release into the environment.
Avoid inhaling dust, mist, or spray. IF INHALED: Remove person to fresh air and keep comfortable to ease breathing. Get medical help.	Dispose of contents and/or container in accordance with regulations.
	Refer to Manufacturer or Supplier for information on disposal, recovery or recycling.

- Prevent contamination of food, foodstuffs, drinking water and eating utensils.
- Clean applicator before and after use. Do not contaminate other crops, grazing with water used to wash the equipment.
- Store in original container in a dry area, away from food and feed stuffs.
- Triple rinse empty container: Shake all the fungicide formulation out of the container into the spray or mixing tank. Hold container over the spray or mixing tank and rinse the container with running water for thirty seconds. Shake the rinse water into the mixing tank. Repeat the rinsing cycle twice. Puncture the triple-rinsed container and dispose via an Approved Collector or Recycler. Do not bury, burn or donate the container to any other parties who may use it as a receptacle for foodstuffs.

RELEVANT SUBSTANCES

Ingredient	CAS Number	%
Potassium bicarbonate	298-14-6	>99
Other	N/A	<1

NOTE: The other ingredients not included above, do not cause, or contribute towards the correct GHS classification of BioCarb-K and are therefore, in terms of the South African Regulations for Hazardous Chemical Agents - 2021; Regulation 14(b), not listed.

FIRST AID

Inhalation: Most important acute symptoms/effects: respiratory tract irritation, irritation of the upper airway, coughing, redness may occur. Suffocation or breathing difficulties may result from inhalation of dust (or mist/spay if dissolved in water) or heat-induced degradation products. Information on symptoms of chronic exposure by inhalation is not available.

IF INHALED: Remove person to fresh air and keep comfortable to ease breathing. Get medical help.

Skin contact: Most important acute symptoms/effects: mild skin irritation or redness may occur in sensitive individuals.

If the skin is exposed to BioCarb-K, rinse with water.

Eye contact: Most important acute symptoms/effects: serious eye irritation, redness and tearing will occur.

IF IN THE EYES: Rinse carefully with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical help if eye irritation persists.

Ingestion: Most important acute symptoms/effects: Ingestion of significant amounts is not considered a likely exposure route as BioCarb-K is a powder with a very bitter taste. If some of the substance gets in your mouth, rinse out with water for several minutes.

RESISTANCE WARNING STATEMENT

BioCarb-K is a Group Code NC Fungicide.

Currently there is no known resistance to BioCarb-K or potassium bicarbonate. It is advisable to use good agricultural practices of resistance management.

To delay fungicide resistance:

- Avoid exclusive repeated use of fungicides from the same fungicide group code. Alternate or tank mix with products from different fungicide group codes.

- Refer to individual product labels when alternating products or when using tank mixtures with products in fungicide group codes 7, 27, 28, 29, 30 and M.
- BioCarb-K may be applied alone or in combination and/or rotation with other control methods (chemical, cultural, biological) as a tool for integrated disease management.

MODE OF ACTION

BioCarb-K suppresses the diseases listed, by increasing the pH of the environment where the fungus is established, then dehydrates the spores and hyphae which leads to desiccation.

USE RESTRICTIONS

- BioCarb-K is not compatible with products that require an acidic spray solution.
- Do not tank mix with calcium or magnesium.
- Do not exceed a final tank mix concentration of 0.5% (500 g BioCarb-K / 100 L water) for sensitive crops and varieties.
- Do not exceed a final tank mix concentration of 1.5% (1.5 kg BioCarb-K / 100 L water) for hardy crops and varieties.
- Ideal timing for application is early in the morning, or late afternoon or evening.
- Phytotoxicity may occur under extreme environmental conditions and on plants under stress.
- Build-up of active can lead to phytotoxicity.
- Use as part of an Integrated Pest Management approach.

RE-ENTRY PERIOD

Do not enter the treated area until the spray deposit has dried unless wearing protective clothing.

NOTICE TO USER

This agricultural remedy is to be used only in accordance with the instructions on the label. It is an offence under the Act to use this agricultural remedy for any purpose in a manner contrary to the directions on the label.

WITHHOLDING PERIOD

There is no withholding period after treatment and crops can be harvested or used at any stage after treatment.

DIRECTIONS FOR USE - Use only as directed

MIXING INSTRUCTIONS:

- Fill spray tank with half the required water volume.
- Start agitator mechanism and maintain agitation during mixing.
- Add the correct amount of product to the water in the tank at the recommended dose rate.
- Top up spray tank to the required volume.
- To ensure the uniformity of the tank mix, maintain agitation during application. Mixed volumes must be applied as soon as possible.
- BioCarb-K works best at an alkaline tank mix pH of between 8.2 to 8.5. A buffer is not necessary except in the case of extreme water pH levels.
- Addition of adjuvants is not needed for BioCarb-K, but should it be required for other tank mix partners, please consult the area representative for compatible options.

REGISTERED USAGES

Crop/Disease	Dosage Rates	Recommendations
Grapes (table and wine) Botrytis (<i>Botrytis cinerea</i>) Powdery mildew (<i>Erysiphe necator</i>)	3 - 6 kg/ha	<ul style="list-style-type: none">Apply as full cover spray but not to point of run off.Use as part of an integrated disease management strategy in combination with other management practices.Start Powdery mildew preventative applications with onset of flowering, repeat every 7 - 14 days as required.
Cucurbits Powdery mildew (<i>Sphaerotheca</i> spp., <i>Podosphaera</i> spp.)	3 - 6 kg/ha	<ul style="list-style-type: none">Start preventative applications for Botrytis at flowering and repeat at berry touching and start of ripening stages.Use the higher dosage rate with increased disease pressure, plant size and high plant densities.Use lower dose rates and longer intervals as preventative measure under low disease pressure.