

Carbonate 850 WP

Reg. No./Nr. L11720, Act No./Wet Nr. 36 of/van 1947

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

A water-soluble powder contact fungicide for the control of diseases on agricultural crops as listed.

'n Wateroplosbare poeier kontak swamdoder vir die beheer van siektes op landbougewasse soos aangedui.

GROUP/GROEP

NC

FUNGICIDE/SWAMDODER

ACTIVE INGREDIENT:

AKTIEWE BESTANDDEEL:

Potassium Bicarbonate850 g/kg..... Kaliumbikarbonaat

NET MASS.....500 g, 5 kg, 10 kg, 15 kg, 25 kg..... NETTO MASSA

**NOT CLASSIFIED AS HAZARDOUS IN
TERMS OF GHS.**

GHS Precautionary Statements

Do not eat, drink or smoke when using this product.
Keep only in original packaging.



REGISTRATION HOLDER / REGISTRASIEHOUER:

AECI® Limited /AECI® Beperk

Reg. No. / Nr. 1924/002590/06

P.O. Box / Posbus 14418

Witfield, 1467

Tel : (011) 823 8000

www.aeciworld.com/www.aeciph.com

IN CASE OF POISONING PLEASE PHONE / IN GEVAL VAN VERGIFTIGING SKAKEL: 0861 555 777/082 4468946

Batch No:

Lotnommer:

DATE OF MANUFACTURE:

VERVAARDIGINGSDATUM:

UN No. / VN Nr. Not Regulated.

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WARNINGS:

GHS Hazard Statement	Pictogram and Signal word
Not Classified as Hazardous.	Not Classified as Hazardous.

Pre-Harvest interval - minimum time between last application and harvest:

Apples, Beans, Beetroot, Berries, Carrots, Citrus, Cucurbits, Lettuce, Pears, Pecans, Potatoes, Soybean, Stone Fruit, Table and Wine Grapes.....0 days

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

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 CLIMATIC AND STORAGE CONDITIONS; QUALITY OF DILUTION WATER, COMPATIBILITY WITH OTHER SUBSTANCES NOT INDICATED ON THE LABEL AND THE OCCURRENCE OF RESISTANCE OF THE DISEASES AGAINST THE REMEDY CONCERNED AS WELL AS BY THE METHOD, TIME AND ACCURACY OF APPLICATION. THE REGISTRATION HOLDER FURTHERMORE DOES NOT ACCEPT RESPONSIBILITY TO CROPS, VEGETATION, THE ENVIRONMENT OR HARM TO MAN OR ANIMAL OR FOR 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 THE REGISTRATION. CONSULT THE SUPPLIER IN THE EVENT OF ANY UNCERTAINTY.

PRECAUTIONS:

GHS Precautionary Statements
IF SWALLOWED: Get medical help. IF ON SKIN: Get medical help. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Store in a dry place. Store in a closed container.

Keep out of reach of children.

Keep only in original packaging.

Do not eat, drink or smoke when using this product.

Avoid spray drift onto adjacent crops, grazing, rivers and dams.

Clean applicators before using for other remedies and ensure disposal of wash water does not contaminate crops, grazing, rivers, dams and water sources.

Prevent contamination of food, feedstuffs, drinking water and eating utensils during handling, storage or disposal.

Clean the empty bag as follows: Shake all the product out of the bag into the spray or mixing tank. Turn the bag inside out, hold the bag over the spray or mixing tank and rinse the bag with running water for thirty seconds. Shake the rinsate off into the tank. Repeat the rinsing twice. Do not bury, burn or donate the bag to any other parties that may use it as a container for foodstuffs. These bags cannot be recycled and must be incinerated by a licensed incineration facility.

RELEVANT SUBSTANCES:

Substance name (IUPAC/EC)	Concentration % by weight	Classification
		EC1272/2008
Potassium bicarbonate	85%	Not classified

NOTE: The other ingredients not included above, do not cause or contribute towards the correct GHS classification of **Carbonate 850 WP** and are therefore, in terms of the South African Regulations for Hazardous Chemical Agents - 2021; Regulation 14(b), not listed.

FIRST AID TREATMENT:

In case of inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if you feel unwell.

In case of skin contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation occurs.

In case of eye contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs.

In case of ingestion Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if you feel unwell or are concerned.

NOTE TO PHYSICIAN

Treat symptomatically.

DIRECTIONS FOR USE: USE ONLY AS DIRECTED

Carbonate 850 WP is a water soluble powder that should be mixed with water and applied as a foliar spray with equipment equipped for conventional fungicide application.

MIXING INSTRUCTION FOR CARBONATE 850 WP:

Fill the spray tank with water to about half of the total spray volume required. Start agitation and add the required amount **Carbonate 850 WP** to the spray tank. Continue mixing and agitation while filling the spray tank to the required spray volume. Maintain sufficient agitation during application to ensure uniformity of the spray mix. Do not allow water or spray mixture to back-siphon into the water source.

If spraying and agitation must be stopped before the spray tank is empty, settled materials must be re-suspended before spraying is resumed. A backflow sparger agitator at the bottom of the tank is particularly useful for this purpose.

Do not mix with other soluble pesticides or fertilizers not compatible with mild alkaline solutions. The addition of surfactant or wetting agent to spray is not required. The product is pre-formulated with these products for the best results. Do not adjust spray solution pH after mixing of product. Acidification of solution will cause reduced product performance.

Please note: Reduced water temperature reduces solubilization rate, thus longer mixing times are required when extremely cold water is used.

APPLICATION:

Proper application techniques help ensure thorough spray coverage and the correct dosage necessary to obtain optimum control of diseases. The following recommendations are provided for the effective application of **Carbonate 850 WP**. To ensure adequate spray coverage, attention should be given to ground speed and calibration, wind speed and foliar canopy.

Application for Row Crops:

Use conventional ground spray equipment calibrated to provide thorough coverage of the target crop. Align the boom and nozzles to obtain uniform coverage of the target crop. Under certain conditions, nozzles on drop arms may be required to obtain uniform crop coverage. Use hollow cone nozzles suitable for fungicide spraying. Follow manufacturer's recommendations for ideal nozzle spacing, pressure and boom height.

Application for Tree Crops (TRV):

High volume - The water volume to be applied per hectare should be calculated according to the Tree Row Volume (TRV) formula:

$$\text{L/ha} = \frac{\text{Tree height} \times \text{Tree diameter} \times 937}{\text{Row width}}$$

TRV is the water volume required when the trees are in full leaf. Use this water volume required per hectare to calculate the amount of **Carbonate 850 WP** required per hectare at various growth stages of a tree during the season.

The following water requirements per hectare are recommended according to the different growth stages of a tree:

Growth Stage	% High Volume Water Requirement/ha
From green tip to start of flowering	60%
From start of flowering to end of flowering	80%
From end of flowering to harvest	100%

When **Carbonate 850 WP** is applied as a low volume spray (LVS) ensure the correct amount of product as calculated for high volume is applied per hectare.

APPLICATION TABLE:

Crop and Disease	Dosage/100 L Water	Remarks
Apples: Powdery mildew <i>Podosphaera leucotricha</i> Scab <i>Venturia pirina</i>	300-500 g or LVS ha Rate: 2.0-7.0 kg/ha or TRV Rate: 100-200 g/100 ℓ	Apply as a full cover spray. Commence application at greentip and apply in a program at 7-day intervals up to the end of blossoming. Apply at 7 to 14 day intervals during the post-blossom stages. Use lower rate per 100 ℓ of water in a preventative program and in conditions with low disease pressure. Use higher rates/100 ℓ of water in a curative program and in conditions which favour high disease pressure.
Beans: Rust <i>Uromyces appendiculatus</i>	250-500g Carbonate 850 WP 1.0-5.0 kg/ha	Commence spraying at the first signs of disease or first flowering appears and repeat at 7-day intervals. Dosage depends on plant density and size. Use enough water to ensure thorough wetting 100-1 000 ℓ/ha.
Beetroot: Cercospora <i>Cercospora beticola</i>	1000 g 2.5-5.0 kg/ha	Apply as a portion of a spray program as a full cover spray at a minimum of 250-500 ℓ/ha spray mixture. Can be applied every 7 days. Apply a minimum of 2 consecutive Carbonate 850 WP sprays to ensure effective control of the disease. Start application when the disease is first noticed. Alternatively apply as a follow-up application in a set spray program. The volume of spray mixture to be applied per ha depends on the plant size and plant density. Start with a minimum of 250 ℓ/ha spray mixture on young plants and increase volume up to 500 ℓ/ha as plant size increases.
BERRIES: Blackberries, Blueberries, Booyenberries, Cranberries, Currants, Gooseberries, Grapes, Raspberries, Strawberries Powdery mildew <i>Oidium tuckeri</i> , <i>Sphaerotheca pannosa</i>	500 g 2.5-5.0 kg/ha	Apply as a portion of a spray program as a full cover spray at a minimum of 500-1 000 ℓ/ha spray mixture. Can be applied every 7 days. Apply a minimum of 2 consecutive Carbonate 850 WP sprays to ensure effective control of the disease. Start application when the disease is first noticed. Alternatively apply as a follow-up application in a set spray program. The volume of spray mixture to be applied per ha depends on the plant size and plant density. Start with a minimum of 500 ℓ/ha spray mixture on young plants and increase volume up to 1 000 ℓ/ha as plant size increases.

Carrots: <i>Alternaria</i> <i>Alternaria dauci</i> , <i>Alternaria radicina</i>	1000 g 2.5-5.0 kg/ha	Apply as a portion of a spray program as a full cover spray at a minimum of 250-500 ℓ/ha spray mixture. Can be applied every 7 days. Apply a minimum of 2 consecutive Carbonate 850 WP sprays to ensure effective control of the disease. Start application when the disease is first noticed. Alternatively apply as a follow-up application in a set spray program. The volume of spray mixture to be applied per ha depends on the plant size and plant density. Start with a minimum of 250 ℓ/ha spray mixture on young plants and increase volume up to 500 ℓ/ha as plant size increases.
Citrus: Black Spot <i>Phylosticta citricarpa</i> / <i>Guignardia citricarpa</i>	200 g	Start applications before mid-October. Apply 4 or more high volume sprays at 25-day intervals during the susceptible period from October to end December. During a high rainfall season a 5th application may be necessary.
Cucurbits: Powdery mildew <i>Sphaerotheca fuliginea</i> , <i>Erysiphe cichoracearum</i>	500 g 2.5-5.0 kg/ha	Apply as a portion of a spray program as a full cover spray at a minimum of 500-1 000 ℓ/ha spray mixture. Can be applied every 7 days. Apply a minimum of 2 consecutive Carbonate 850 WP sprays to ensure effective control of the disease. Start application when the disease is first noticed. Alternatively apply as a follow-up application in a set spray program. The volume of spray mixture to be applied per ha depends on the plant size and plant density. Start with a minimum of 500 ℓ/ha spray mixture on young plants and increase volume up to 1 000 ℓ/ha as plant size increases.
Lettuce: Powdery mildew <i>Golovinomyces cichoracearum</i>	1 000 g 2.5-5.0 kg/ha	Apply as a portion of a spray program as a full cover spray at a minimum of 250-500 ℓ/ha spray mixture. Can be applied at 7-day intervals. Apply a minimum of 2 consecutive Carbonate 850 WP sprays to ensure effective control of the disease. Start application when the disease is first noticed. Alternatively apply as a follow-up application in a set spray program. The volume of spray mixture to be applied per ha depends on the plant size and plant density. Start with a minimum of 250 ℓ/ha spray mixture on young plants and increase volume up to 500 ℓ/ha as plant size increases.

Pears: Scab <i>Venturia pirina</i>	300-500 g 2.0-7.0 kg/ha	Apply as a full cover spray. Commence application at greentip and apply in a program at 7-day intervals up to the end of blossoming. Apply at 7 to 14 day intervals during the post-blossom stages. Use 300 g/100 ℓ of water in a preventative program and in conditions with low disease pressure. Use 500 g/100 ℓ of water in a curative program and in conditions which favour high disease pressure.
Pecans: Scab <i>Cladosporium caryigenum</i>	300-500 g 3.0-5.0 kg/ha	Start applications before mid-October. Apply 3 high volume sprays at 21 to 30 day intervals during the susceptible period from October to end December. During a high rainfall season, a 4th application may be necessary.
Potatoes: Early Blight <i>Alternaria solani</i>	500-1000 g 2.5-5.0 kg/ha	Apply in a preventative spray program schedule as a full cover spray. Start application at 90% emergence. Repeat at 7-day intervals as required. The volume of the spray mixture to be applied per hectare depends on the plant size and density. Start with a minimum of 250 ℓ/ha spray mixture on young plants and increase volume up to 500 ℓ/ha as the plant size increases.
Late Blight <i>Phytophthora infestans</i>	500-1000 g 2.5-5.0 kg/ha	
Soybeans: Asian Soybean Rust <i>Phakopsora pachyrhizi</i>	0.5-1.0 kg	Apply in a preventative spray program schedule as a full cover spray as Carbonate 850 WP is a contact fungicide 200-1000 ℓ/ha. Depending on the canopy of the soybeans in various regions. Apply at first signs of disease or at flowering if no disease is present and repeat 7 to 21 days later. If weather conditions favour disease development (temperatures of 15-28°C and high humidity) use the shorter interval. For season long control of foliar diseases, it is important that a spray program be used.
Stonefruit: Apricots, Cherries, Nectarines, Peaches, Plums, Prunes Gum Spot <i>Cladosporium carpophilum</i> Brown Rot <i>Monilinia fructicola</i>	 300-500 g 3.0-5.0 kg/ha 500-1 000 g 5.0-10.0 kg/ha	Start 2 applications in Autumn just after harvest and at 75% leaf drop. Then start in spring with Copper at first bud movement follow up with Carbonate 850 WP at 80% petal fall. Two further applications at 7 to 14 day intervals if necessary. For plums commence spraying from mid-December and apply 2 sprays at 7-10 day intervals. Begin application at petal fall and continue 2-3 applications at weekly intervals. If gum spot program was followed or spray program was followed. Make the following additional applications at 14, 7, 3, and or 1 day before harvest depending on the disease pressure.

		Use lower rate/100 ℓ of water in a preventative program and in conditions with low disease pressure. Use higher rate/100 ℓ of water in a curative program and in conditions which favour high disease pressure.
Table and Wine Grapes: Powdery mildew <i>Oidium tuckeri</i>	300-500 g 2.5-5.0 kg/ha	Apply in a preventative spray program schedule in a sufficient water volume to achieve thorough coverage of all foliage and fruit. The volume of water required to achieve this will depend on the stage of vine vigour and growth. Adjust spray nozzles to direct spray droplets to the canopy present. Apply the higher rate of application where the following applies: • Where humid conditions favour Powdery mildew infection, particularly on susceptible varieties. • At the start of the season when there has been a heavy carry-over of Powdery mildew infection. Do not exceed 500 ℓ/ha spray application.
----- Downy mildew <i>Plasmopara viticola</i>	----- 300-500 g 2.5-5.0 kg/ha	----- Commence spraying when the first shoots are 50-100 mm long and repeat every 7-days or as often as required. Use the lower rate for low disease pressure and the higher rate for high disease pressure.