

# BOSTRIN 380 WG

Act No. 36 of 1947 / Wet Nr. 36 van 1947 / SA Reg. No. L11445

READ ATTACHED PACKAGED LEAFLET BEFORE USE • KEEP OUT OF REACH OF CHILDREN AND ANIMALS

GROUP

7

11

FUNGICIDES

**PRODUCT INFO:**  
A water dispersible granular fungicide for the preventative control of fungal diseases on crops as listed.

**PRODUK INFO:**  
'n Waterdispergeerbare korrel swamdoder vir die voorkomende beheer van swamsiektes op gewasse soos aangedui.



DANGER

**HAZARD STATEMENTS:**  
Causes skin irritation.  
Causes serious eye damage.  
Harmful if inhaled.  
Very toxic to aquatic life with long lasting effects.

**PRECAUTIONARY STATEMENTS:**  
Wear protective gloves, protective clothing, eye, and face protection.  
Wash hands, face, and exposed skin thoroughly after handling. Do not touch eyes.

## Active Ingredients / Aktiewe Bestanddele

Boscalid (pyridine-carboxamide)  
Pyraclostrobin (methoxy-carbamates)

252 g/kg  
128 g/kg

Boscalid (piridien-karboksamied)  
Piraklostrobien (metoksi-karbamate)

Net (g) SEE CONTAINER

Registration Holder / Registrasiehouer



ICA International Chemicals (Pty) Ltd. • Reg. No. 2001/013319/07 • 28 Planken Street • Plankenbrug Industrial • STELLENBOSCH • 7600 • SOUTH AFRICA • Tel. +27-21 886 9812 • www.icaonline.co.za

Batch No.  
Date of Manufacture  
Expiry Date

SEE  
CONTAINER

Lot Nr.  
Datum van Vervaardiging  
Vervaldatum

In case of poisoning, call the following number: Human Poison Helpline +27-861 555 777 • Emergency Number: Griffon Poison Information Centre +27-82 446 8946

UN No. / VN Nr. 3077



What is  
GHS?

# BOSTRIN 380 WG

Act No. 36 of 1947  
SA Reg. No. L11445

A water dispersible granular fungicide for the preventative control of fungal diseases on crops as listed.

## ACTIVE INGREDIENTS:

Boscalid (pyridine-carboxamide) ..... 252 g/kg  
Pyraclostrobin (methoxy-carbamates) ..... 128 g/kg

## REGISTERED BY:

ICA International Chemicals (Pty) Ltd., Reg. No. 2001/013319/07  
28 Planken Street • Plankenbrug Industrial • Stellenbosch • 7600 • South Africa  
Tel. +27-21 886 9812 • www.icaonline.co.za

## WARNINGS

Causes skin irritation  
Causes serious eye damage  
Harmful if inhaled  
Very toxic to aquatic life with long lasting effects

## WITHHOLDING PERIODS (Minimum number of days between last application and harvest):

- ▶ *Berries (blackberries, raspberries, blueberries and black currents)* ..... 28 Days
- ▶ *Capsicum crops (chillies, paprika and peppers)* ..... 7 Days
- ▶ *Tree nuts (almond, macadamia, pistachio, cashew, hazel and pecan nuts)* ..... 14 Days
- ▶ *Onions (including chives)* ..... 7 Days
- ▶ *Potatoes* ..... 14 Days
- ▶ *Persimmons* ..... 145 Days
- ▶ *Soya beans* ..... 70 Days
- ▶ *Strawberries* ..... 7 Days
- ▶ *Sunflowers* ..... 14 Days
- ▶ *Tomatoes* ..... 3 Days

Compliance with withholding periods and application methods will ensure that residues do not exceed local maximum residue limits (MRL) but may not meet the import requirements of other countries. If the crop to be treated is intended for export, consult the relevant importer or exporting body regarding the use of this product, MRL and recommended withholding period. Although **BOSTRIN 380 WG** is regarded as crop-safe on most of the important cultivars, this does not mean that a more sensitive cultivar might be available in future. **BOSTRIN 380 WG** must be tested on new cultivars prior to usage over big areas.

**RE-ENTRY INTERVAL:** Do not enter treated area within 24 hours after application/until spray deposit has dried, unless wearing full protective clothing. Wash protective clothing after use.

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 disease against the remedy concerned as well as by the method, time and accuracy of application. The registration holder furthermore does not accept responsibility for damage to crops, vegetation, and the environment or harm to man/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

If medical advice is needed, have product container or label at hand.  
Avoid breathing dust, fumes and mist.  
Wash hands and exposed skin thoroughly after handling. Do not touch eyes.  
Use only outdoors or in a well-ventilated area.  
Avoid release to the environment.  
Wear protective gloves, protective clothing, eye and face protection.  
IF ON SKIN: Wash with plenty of soap and water.  
If skin irritation occurs: Get medical help.  
For specific treatment see first aid measures on this label.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical help.  
IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical help.  
Take off contaminated clothing and wash it before reuse.  
Collect spillage.  
Store in a well-ventilated place. Keep container tightly closed.  
Dispose of contents and container in accordance with national regulations.

**TRIPLE RINSE THE EMPTY CONTAINER AS FOLLOWS:** Containers must be completely emptied before being disposed of. Invert and shake thoroughly into the spray tank to ensure the container is empty. Triple rinse the empty container with clean water equal to a minimum of 30 % of the volume of the container. Add rinsing to the contents of the spray tank. Puncture the triple rinsed container and dispose of via an approved collector or recycler ([www.croplife.co.za](http://www.croplife.co.za)). Do not bury, burn, or donate the container to any other parties that may use it as a container for food or beverages.

## RELEVANT SUBSTANCES:

Boscalid (Cas no: 188425-85-6) Aquatic Chronic Category 2, H411 (25.2 % w/w).  
Pyraclostrobin (Cas no: 175013-18-0) Acute Inhalation Toxicity Category 3, H331; Skin Irritation Category 2, H315; Aquatic Acute Category 1, H400; Aquatic Chronic Category 1, H410 (12.8 % w/w).

Calcium dodecylbenzenesulphonate (Cas no: 26264-06-2) Acute Oral Toxicity Category 4, H302; Skin Irritation Category 2, H315; Eye Damage Category 1, H318; Aquatic Chronic Category 4, H413 (< 10 % w/w).

#### FIRST AID TREATMENT

**In case of accident or if you feel unwell seek medical advice immediately and show this LABEL where possible**

- INHALATION:**
- Remove the victim from immediate source of exposure. Move victim to fresh air, if it can be done safely, and keep comfortable. If victim's breathing has stopped, perform artificial respiration.
  - Administer oxygen if victim's breathing is difficult or irregular and get medical help.
- SKIN:**
- Remove and isolate contaminated clothing, shoes, and leather goods and take a shower.
  - Rinse affected areas (skin) immediately with non-abrasive soap or mild detergent and large amounts of running water. Wash contaminated clothing before reuse.
  - Get medical help if irritation develops and persists.
- EYES:**
- Rinse eyes IMMEDIATELY with clean water for at least 15 minutes, while holding eyelids apart. Remove contact lenses after 5 minutes if present and easy to do. Continue rinsing while holding eyelids apart.
  - Get immediate medical help if irritation continues.
- INGESTION:**
- If swallowed, rinse mouth, DO NOT induce vomiting, unless instructed to do so by poison control centre or doctor.
  - Have person sip a glass of water if able to swallow. Never give anything by mouth to an unconscious person. If vomiting does occur, keep on giving fluids. Get medical help.
- NOTE TO PHYSICIAN:**
- There is no specific antidote. All treatments should be based on observed signs and symptoms of distress in the patient. Administration of gastric lavage is advised.
- POTENTIAL HEALTH EFFECTS, ACUTE AND DELAYED:**
- Effects of exposure (inhalation, ingestion, or skin contact) to substance may be delayed.

#### RESISTANCE WARNING

**For resistance management: BOSTRIN 380 WG** consist of group code (11) and (7) fungicides. Any fungal population may contain individuals naturally resistant to **BOSTRIN 380 WG** and other group code (11) and (7) fungicides. The resistant individuals can eventually dominate the fungal population if these fungicides are used repeatedly. These resistant fungi may not be controlled by **BOSTRIN 380 WG** or any other group code (11) and (7) fungicides.

##### To prevent or delay fungicide resistance:

- avoid exclusive repeated use of fungicides from the same fungicide group code. Alternate or tank mix with registered products from different fungicide group codes,
- for tank mixing or alternation with products in other fungicide group codes, refer to individual product labels,
- integrate other forms of control methods (chemical, cultural, biological) into disease control programme,
- where resistance has been confirmed or previously suspected do not apply **BOSTRIN 380 WG** alone but in combination with a suitable partner from different fungicide group codes. This management strategy to prevent resistance should, however, not include fungicide products to which resistance has already developed in the past, or fungicides using the same mode of action,
- for specific information on resistance management contact the registration holder of this product or contact your local supplier,
- visit the FRAC website at <https://www.frac.info/> for more information,
- in order to maintain the efficacy of **BOSTRIN 380 WG**, it is necessary to prevent the development of resistance of the diseases against the (11) and (7) fungicide groups.

#### MODE OF ACTION

Boscalid is a pyridine carboxamide (FRAC group 7) broad-spectrum fungicide inhibiting the succinate-ubiquinone oxidoreductase system in Complex II of the mitochondrial electron transfer chain (ATP Production). This inhibits spore germination, germ tube elongation, appressoria formation and mycelial growth.

Pyraclostrobin belongs to the strobilurin class of fungicides (FRAC group 11). Strobilurins, also known as QoI fungicides, inhibits mitochondrial respiration leading to an energy deficiency in the fungal cells by halting energy production causing fungal death (inhibiting spore germination, mycelial growth, and sporulation).

#### USE RESTRICTIONS

- It is important that **BOSTRIN 380 WG** is applied preventatively, before symptoms appear, as prescribed in the recommendations table.
- Adhere to the dosage rates recommended on the label, DO NOT reduce dosage rate.
- **BOSTRIN 380 WG** must be applied as a full cover spray.
- Never use **BOSTRIN 380 WG** as a corrective or curative treatment, when the disease is already present, or after the unsuccessful application of any product.
- When tank mixing or alternating with other fungicides, use registered mixing partners that provide satisfactory disease control when applied alone at the recommended mixing rate.
- Should it rain within two hours after application, the application must be repeated.

#### DIRECTIONS FOR USE – use only as directed

##### COMPATIBILITY:

**BOSTRIN 380 WG** is compatible with most fungicide, insecticides and acaricides. The compatibility of **BOSTRIN 380 WG** with other products depends on the formulations of the respective products as well as the quality of the spray water to be used. Since formulations of other products may change from time to time without our knowledge, and the water quality may vary between farms it is therefore recommended that a small-scale physical compatibility test be done prior to the tank mixture being made. Always consult the labels of products to be tank mixed with **BOSTRIN 380 WG**.

##### MIXING INSTRUCTIONS:

Half fill the mixing tank with clean water. Measure the required quantity of **BOSTRIN 380 WG** and pre-mix this with at least 10 ℓ water. Pre-mix any other product(s) to be tank mixed in the same way separately. While agitating the spray tank water, add the pre-mixed product(s) in the following sequence: buffer/acidifier, wettable powders, water dispersible granules, suspension concentrates, emulsifying concentrates and soluble concentrates last. If mixing partners are packed in water-soluble bags, add the soluble bags first and then **BOSTRIN 380 WG**. Top up the mixing tank with the required quantity clean water whilst agitating. Agitate constantly before and during application, DO NOT allow tank mixture to settle. **TANK MIXTURES MUST BE SPRAYED OUT IMMEDIATELY AND NOT ALLOWED TO STAND IN THE SPRAY TANK OVERNIGHT.** Spraying equipment must be thoroughly flushed out at the end of the spraying operation.

**CLEAN SPRAY EQUIPMENT DIRECTLY AFTER USE:** Special care and attention must be taken in cleaning all equipment used in the mixing and application of **BOSTRIN 380 WG** to avoid damage to other crops.

**GROUND APPLICATION:**

- **BOSTRIN 380 WG** can be applied with conventional high volume spray equipment. The nozzles should be fitted with hollow cone tips that give medium to fine droplets.
- Ensure that the equipment is correctly calibrated and is checked regularly to ensure even and accurate application.
- Distribution of the spray mixture must be uniform throughout the target area. Do not let the spray overlap as this can lead to crop damage.
- The distribution of the spray should be uniform, ensuring good coverage of the whole plant (including the stems and leaves) by using sufficient water and suitable spraying equipment. Do not apply through any ultra-low volume (ULV) spray system.
- Repeat the application if it rains within two (2) hours after application.
- Avoid drift onto other crops, grazing, rivers, dams, or areas not under treatment.

**AERIAL APPLICATION – (POTATOES ONLY):****AVOID CHEMICAL DRIFT AT ALL TIMES**

Aerial application of **BOSTRIN 380 WG** may only be done by a registered aerial application operator using a registered and correctly calibrated aircraft according to the instructions of SANS 10118 (Aerial Application of Agricultural Remedies). It is important to ensure that the spray mixture is distributed evenly over the target area and that the loss of spray material during application is restricted to a minimum. Thorough coverage is essential for effective results. Use only in crops where aerial application is indicated on this label. It is therefore essential that the following criteria are met:

**APPLICATION PARAMETERS:**

- **Volume:** A minimum spray mixture volume of 30 – 40 ℓ water/ha is recommended unless specified differently in the recommendation tables. Since **BOSTRIN 380 WG** has not been evaluated at a reduced volume rate, the registration holder cannot guarantee efficacy nor be held responsible for any adverse effects if this product is applied aerially at a lower volume rate than recommended.
- **Droplet coverage:** A droplet coverage of 50 – 70 droplets per square centimetre (cm<sup>2</sup>) must be recovered at the target area.
- **Droplet size:** A droplet spectrum with a volume median diameter (VDM) of 250 microns (µm) is recommended. Ensure the production of fine droplets, with a VMD less than < 150 µm (high drift and evaporation potential), is restricted to a minimum.
- **Flying height:** The height of the spray boom should be maintained between 3 – 4 metres (m) above the target. Do not spray when aircraft is in a climb, at the top or during a dive, or when banking.
- Notify and warn all inhabitants in the immediate area of the intended application and issue the necessary warnings.

**EQUIPMENT:**

- Use suitable atomising equipment (hydraulic nozzles or rotary atomisers) that will produce the desired droplet size and coverage of the target area and will ensure the minimum loss of product either through endodrift (within target field) or exodrift (outside target field).
- The operator must use a nozzle setup that will produce a droplet spectrum with the lowest possible relative span.
- All nozzles or atomisers should be positioned within the inner 60 – 75 % of the wingspan to prevent droplets from entering the wingtip vortices.

**METEOROLOGICAL CONDITIONS:**

- The difference in temperature between the wet and dry bulb thermometers, of a whirling hygrometer, should not exceed 8 °C.
- Stop spraying if the wind speed exceeds 15 km/h or reduces to less than 5 km/h.
- Do not spray under turbulent, unstable conditions or during the heat of the day when rising thermals and downdraughts occur.
- Do not spray under temperature inversion conditions (spraying in or above the inversion layer) and/or high humidity conditions as this may cause:
  - Reduced efficacy due to suspension and evaporation of small droplets in the air (which leads to inadequate coverage).
  - Damage to other sensitive crops and/or non-target areas through drifting of the suspended spray cloud away from the targeted area.
- Under the following climatic conditions drift could occur up to 3 – 5 km from the nearest spray path of the aircraft:
  - Cloudy weather with relative humidity above 80 % and low air movement of less than 5 km/h.
  - When such conditions occur, aerial application should **NOT** be carried out where sensitive crops occur.
- Ensure that fields are accurately marked and that the aerial spray operator knows exactly which fields to spray. Supply the pilot with precise identification of the fields to be sprayed, preferably by means of a map or GPS coordinates. Indicate adjacent environmentally sensitive areas or sensitive neighbouring crops, beehives or water sources that could be affected by the pesticide.
- Obtain an assurance from the aerial spray operator that the above requirements will be met, and that the relevant data will be compiled in a logbook and kept for future reference.
- The application must be repeated if it rains within two (2) hours after application.

APPLICATION TABLE		
CROP and DISEASE	DOSAGE	REMARKS
<b>BERRIES</b> (blackberries, raspberries, blueberries and black currants)  <b>Leaf rust</b> <i>(Thekopsora minima)</i>	<b>Ground Application</b> 60 g/100 ℓ water	<ul style="list-style-type: none"> <li>▶ Apply the first application of <b>BOSTRIN 380 WG</b> at the onset of the postharvest flush, before the first autumn rain.</li> <li>▶ Re-apply as required to protect the new growth during the winter.</li> <li>▶ A maximum of three (3) <b>BOSTRIN 380 WG</b> or other Group 7 or 11 fungicides can be applied per season.</li> </ul>
<b>CAPSICUM/PEPPERS</b> (chillies, paprika and peppers)  <b>Powdery mildew</b> <i>(Leveillula taurica)</i>  <b>Cercospora leaf spot</b> <i>(Cercospora capsici)</i>  <b>Anthraxnose</b> <i>(Colletotrichum spp.)</i>	<b>Ground Application</b> 500 g/ha  <b>SPRAY VOLUME:</b> <u>Ground/Tractor application:</u> 300 – 500 ℓ water/ha	<ul style="list-style-type: none"> <li>▶ Apply <b>BOSTRIN 380 WG</b> at 10 – 14-day intervals in a preventative spray programme with registered fungicides from other FRAC groups.</li> <li>▶ Use adequate water volume for complete coverage.</li> <li>▶ A maximum of three (3) <b>BOSTRIN 380 WG</b> or other Group 7 or 11 fungicides can be applied per season.</li> </ul>

<p><b>ONIONS</b> (including chives)</p> <p><b>Purple blotch</b> (<i>Alternaria porri</i>)</p>	<p><b>Ground Application:</b> 300 g/ha</p> <p><b>SPRAY VOLUME:</b> <u>Ground/Tractor application:</u> 300 – 500 ℓ water/ha</p>	<ul style="list-style-type: none"> <li>▶ Apply <b>BOSTRIN 380 WG</b> at 10 – 14-day intervals in a preventative spray programme with registered fungicides from other FRAC groups.</li> <li>▶ Use adequate water volume for complete coverage.</li> <li>▶ A maximum of three (3) <b>BOSTRIN 380 WG</b> or other Group 7 or 11 fungicides can be applied per season.</li> <li>▶ Add an adjuvant to the spray mixture at the registered rate.</li> </ul>
<p><b>POTATOES</b></p> <p><b>Early blight</b> (<i>Alternaria solani</i>)</p>	<p><b>Ground and Aerial Application</b> 300 g/ha</p> <p><b>SPRAY VOLUME:</b> <u>Ground/Tractor application:</u> Minimum 500 ℓ water/ha <u>Aerial application:</u> 30 – 40 ℓ water/ha</p>	<ul style="list-style-type: none"> <li>▶ Apply <b>BOSTRIN 380 WG</b> at 10 – 14-day intervals in a preventative spray programme with registered fungicides from other FRAC groups.</li> <li>▶ Alternate <b>BOSTRIN 380 WG</b> applications with unrelated contact fungicides.</li> <li>▶ Use adequate water volume for complete coverage.</li> <li>▶ A maximum of three (3) <b>BOSTRIN 380 WG</b> or other Group 7 or 11 fungicides can be applied per season.</li> </ul>
	<p><b>Ground Application</b> 600 g/ha</p> <p><b>SPRAY VOLUME:</b> <u>Ground/Tractor application:</u> Minimum 500 ℓ water/ha</p>	<ul style="list-style-type: none"> <li>▶ Under favourable conditions for disease development or where high disease pressure is expected, a maximum of two (2) <b>BOSTRIN 380 WG</b> should be applied 21 – 28 days apart in a preventative spray programme with registered fungicides from other FRAC groups.</li> <li>▶ Alternate <b>BOSTRIN 380 WG</b> applications with unrelated contact fungicides.</li> </ul>
<p><b>PERSIMMONS</b></p> <p><i>Alternaria alternata</i></p>	<p><b>Ground Application</b> 60 g/100 ℓ water</p>	<ul style="list-style-type: none"> <li>▶ Apply maximum of three (3) <b>BOSTRIN 380 WG</b> applications in a spray programme with registered fungicides from other FRAC groups.</li> <li>▶ Commence spray programme 10 days before full bloom.</li> <li>▶ Apply <b>BOSTRIN 380 WG</b> as a high-volume full cover application to the point of run-off to ensure thorough coverage.</li> </ul>
<p><b>SOYA BEANS</b></p> <p><b>Soya bean rust</b> (<i>Phakopsora pachyrhizi</i>)</p>	<p><b>Ground Application</b> 600 g/ha</p> <p><b>SPRAY VOLUME:</b> <u>Ground/Tractor application:</u> 200 – 320 ℓ water/ha</p>	<ul style="list-style-type: none"> <li>▶ Apply <b>BOSTRIN 380 WG</b> preventatively before the first signs of disease development, usually at the onset of flowering.</li> <li>▶ Repeat applications 21 – 28 days later.</li> <li>▶ Under favourable conditions for disease development or where high disease pressure is expected use the shorter interval of 21 days.</li> </ul>
<p><b>STRAWBERRIES</b></p> <p><b>Anthraxnose</b> (<i>Colletotrichum</i> spp.)</p> <p><b>Botrytis gray mould</b> (<i>Botrytis cinerea</i>)</p> <p><b>Powdery mildew</b> (<i>Sphaerotheca macularis</i>)</p>	<p><b>Ground Application</b> 1.2 kg/ha</p>	<ul style="list-style-type: none"> <li>▶ Apply <b>BOSTRIN 380 WG</b> at 7 – 14-day intervals in a preventative spray programme with registered fungicides from other FRAC groups.</li> <li>▶ Apply in sufficient water volumes to ensure good coverage.</li> <li>▶ Use the shorter interval of 7 days under favourable conditions for disease development or where high disease pressure is expected.</li> <li>▶ Commence spray programme no later than 10 % flowering.</li> <li>▶ A maximum of three (3) <b>BOSTRIN 380 WG</b> or other Group 7 or 11 fungicides can be applied per season.</li> <li>▶ DO NOT apply more than two (2) consecutive application of <b>BOSTRIN 380 WG</b> before alternating with an unrelated fungicide from a different FRAC group.</li> </ul>
<p><b>SUNFLOWER</b></p> <p><b>Alternaria leaf spot</b> (<i>Alternaria helianthi</i>, <i>A. zinnia</i> and <i>A. alternata</i>)</p>	<p><b>Ground Application</b> 600 – 800 g/ha</p> <p><b>SPRAY VOLUME:</b> <u>Ground/Tractor application:</u> 300 – 400 ℓ water/ha</p>	<ul style="list-style-type: none"> <li>▶ Commence spray programme when 6 – 8 true leaves are unfolded and ideally before any disease symptoms are present.</li> <li>▶ The lower dosage rate is suitable when <b>BOSTRIN 380 WG</b> is applied at the early growth stage, before disease occur. Use the higher dosage rate for the second application.</li> <li>▶ The second application should be applied at the beginning of flowering, when the first yellow petal leaves are present.</li> <li>▶ DO NOT apply <b>BOSTRIN 380 WG</b> once the flower heads start hanging.</li> <li>▶ Apply <b>BOSTRIN 380 WG</b> in sufficient water volumes over the top of the plants to ensure adequate leaf coverage and canopy penetration.</li> <li>▶ A maximum of two (2) <b>BOSTRIN 380 WG</b> applications can be applied per season.</li> </ul>

		<ul style="list-style-type: none"> <li>▶ Good suppression of powdery mildew (<i>Erysiphe cichoracearum</i>) can be achieved when <b>BOSTRIN 380 WG</b> is applied at the higher dosage before symptoms are visible.</li> </ul>
<b>TOMATOES</b>  <b>Early blight</b> <i>(Alternaria solani)</i>	<p><b>Ground Application</b> 300 g/ha</p> <p><b>SPRAY VOLUME:</b>  <u>Ground/Tractor application:</u>          If the water volume exceeds 500 ℓ water/ha, apply at the rate of 60 g <b>BOSTRIN 380 WG</b>/100 ℓ water</p>	<ul style="list-style-type: none"> <li>▶ Apply <b>BOSTRIN 380 WG</b> at 10 – 14-day intervals in a preventative spray programme with registered fungicides from other FRAC groups.</li> <li>▶ Alternate <b>BOSTRIN 380 WG</b> applications with unrelated contact fungicides.</li> <li>▶ Use adequate water volume for complete coverage.</li> <li>▶ Apply <b>BOSTRIN 380 WG</b> in at least 500 ℓ water/ha.</li> <li>▶ A maximum of three (3) <b>BOSTRIN 380 WG</b> or other Group 7 or 11 fungicides can be applied per season.</li> </ul>
<b>TREE NUTS</b> (almonds, cashew, hazelnuts, macadamia, pecans and pistachio)  <b>Blossom blight</b> <i>(Monilinia / Cladosporium spp.)</i>  <b>Macadamia: Husk rot</b> <i>(Colletotrichum spp.)</i>  <b>Macadamia: 'Rat tail'/Blossom blight</b> <i>(Cladosporium cladosporioides)</i>  <b>Husk spot</b> <i>(Pseudocercospora macadamiae)</i>	<p><b>Ground Application</b> 800 g/ha</p> <p><b>SPRAY VOLUME:</b>  <u>Ground/Tractor application:</u>          1200 – 1500 ℓ water/ha</p>	<ul style="list-style-type: none"> <li>▶ Apply <b>BOSTRIN 380 WG</b> prior to disease development in a protectant spray programme, starting at flower tassel emergence.</li> <li>▶ Follow up with a second application 14 days after the first application.</li> <li>▶ DO NOT apply more than two (2) consecutive sprays of <b>BOSTRIN 380 WG</b> without alternating with an unrelated contact fungicide, from different FRAC groups.</li> <li>▶ A maximum of three (3) <b>BOSTRIN 380 WG</b> or other Group 7 or 11 fungicides can be applied per season.</li> <li>▶ For <b>blossom blight</b>: At early bloom, apply <b>BOSTRIN 380 WG</b> and continue spray programme until the end of petal fall.</li> </ul>

Consult the individual product labels for **USE RESTRICTIONS, WARNINGS** (including **RESISTANCE WARNINGS**), **PRECAUTIONS** and **DIRECTIONS FOR USE** if applied in a tank mixture with **BOSTRIN 380 WG**.

BC-PS-001

# BOSTRIN 380 WG

Wet Nr. 36 van 1947  
SA Reg. Nr. L11445

'n Waterdispergeerbare korrel swamdoder vir die voorkomende beheer van swamsiektes op gewasse soos gelys.

## AKTIEWE BESTANDELE:

Boscalid (piridien-karboksamied) ..... 252 g/kg  
Piraklostrobien (metoksi-karbamate) ..... 128 g/kg

## GEREGISTREER DEUR:

ICA International Chemicals (Pty) Ltd., Reg. Nr. 2001/013319/07  
Plankenstraat 28 • Plankenbrug Industrieël • Stellenbosch • 7600 • Suid-Afrika  
Tel. +27-21 886-9812 • www.icaonline.co.za

## WAARSKUWINGS

Veroorsaak velirritasie  
Veroorsaak ernstige oogskade  
Skadelik indien ingeasem  
Baie giftig vir waterlewende organismes met langdurige gevolge

**ONTHOUDINGSPERIODES** (Minimum aantal dae tussen laaste toediening en oes):

▶ <i>Aarbeie</i> .....	7 Dae
▶ <i>Aartappels</i> .....	14 Dae
▶ <i>Bessies (swartbessies, frambose, bloubessies en korente)</i> .....	28 Dae
▶ <i>Capsicum gewasse (brandrissies, paprika en soetrissies)</i> .....	7 Dae
▶ <i>Neutbome (amandels, makadamias, pistasieneute, kasjoeneute, haselneute en pekanneute)</i> .....	14 Dae
▶ <i>Persimmons</i> .....	145 Dae
▶ <i>Sojabone</i> .....	70 Dae
▶ <i>Sonneblom</i> .....	14 Dae
▶ <i>Tamaties</i> .....	3 Dae
▶ <i>Uie (insluitend grasuie)</i> .....	7 Dae

Nakoming van hierdie onthoudingsperiodes en toedieningsmetodes sal verseker dat die plaaslike maksimum residu limiete (MRL) nie oorskry word nie, maar mag dalk nie voldoen aan die invoereis van ander lande nie. Indien die gewas wat behandel gaan word, bestem is vir uitvoer, skakel met die betrokke invoerder of uitvoerliggaam rakende die gebruik van hierdie produk, die MRL en aanbevole onthoudingsperiodes. Alhoewel **BOSTRIN 380 WG** as gewasveilig beskou word op die meeste belangrike kultivars, beteken dit nie dat 'n meer sensitiewe kultivar in die toekoms op die mark kan kom nie. **BOSTRIN 380 WG** moet eers op nuwe kultivars getoets word voordat dit oor groot areas aangewend word.

**HERBETREDINGSINTERVAL:** Moenie behandelde gebied binne 24 uur na toediening betree of alvorens die spuitneerslag droog is nie, tensy beskermende oorklere gedra word. Beskermende oorklere moet gewas word na gebruik.

Alhoewel hierdie middel omvattend onder 'n groot verskeidenheid toestande getoets is, waarborg die registrasiehouer nie dat dit onder alle toestande doeltreffend sal wees nie, aangesien die werking en effek daarvan beïnvloed kan word deur faktore soos abnormale grond-, klimaats- en bergingstoestande, kwaliteit van verdunningswater, verenigbaarheid met ander produkte wat nie op die etiket aangedui is nie en die voorkoms van weerstand teen die betrokke middel, sowel as die metode, tyd en akkuraatheid van toediening. Verder aanvaar die registrasiehouer nie verantwoordelikheid vir skade aan gewasse, plantegroei, die omgewing of vir nadelige effekte op mens of dier of vir 'n gebrek aan doeltreffendheid, as gevolg van die versuim van die gebruiker om die etiketaanwysings na te kom of as gevolg van die ontstaan van toestande wat nie kragtens die registrasie voorsien kon word nie. Raadpleeg die verskaffer in geval van enige onsekerheid.

## VOORSORGMAATREËLS

Indien mediese advies benodig word, hou die produkhouer of -etiket byderhand.  
Hou buite bereik van kinders.  
Lees sorgvuldig en volg alle instruksies.  
Verm y die inaseming van stuifsel, dampe en spuitstof.  
Was hande en blootgestelde vel deeglik na hantering. Moet nie aan oë raak nie.  
Gebruik slegs buitenshuis of in 'n goed geventileerde area.  
Verm y vrystelling in die omgewing.  
Dra beskermende handskoene, beskermende klere, oog- en gesigbeskerming.  
INDIEN OP VEL: Was met baie seep en water.  
Indien velirritasie ontstaan: Kry mediese hulp.  
Vir spesifieke behandeling sien noodhulp afdeling op hierdie etiket.  
INDIEN INGEASEM: Neem slagoffer na vars lug en hou gemaklik vir asemhaling. Kry mediese hulp.  
INDIEN IN OË: Spoel onmiddellik met water vir etlike minute. Verwyder kontaklense, indien aanwesig en maklik om te verwyder. Hou aan met spoel. Kry mediese hulp.  
Trek alle besoedelde klere uit en was dit voor hergebruik.  
Maak stortsel bymekaar.  
Berg in 'n goed geventileerde plek. Hou houer dig toe.  
Raak ontslae van inhoud en houer in ooreenstemming met nasionale regulasies.

**SPOEL DIE LEË HOUER DRIE MAAL SOOS VOLG:** Die houer moet heeltemal leeg wees voordat daarmee weggedoen word. Skud al die plaagdoderformulasie uit die houer in die spuit- of mengtenk. Spoel die leë houer drie keer met skoon water gelyk aan 'n minimum van 30 % van die houer se volume. Voeg

spoitwater by die inhoud van die spuit- of mengtenk. Kap gate in die drie keer gespoelde houër, waarna dit aan 'n goedgekeurde versamelaar of verwerker oorhandig moet word ([www.croplife.co.za](http://www.croplife.co.za)). Moenie die houër begrawe, verbrand of aan enige ander partye skenk wat dit as houër vir voedsel of drinkgoed mag gebruik nie.

#### RELEVANTE STOWWE:

Boscalid (Cas no: 188425-85-6) Waterlewend Kronies Kategorie 2, H411 (25.2 % m/m).

Piraklostrobien (Cas no: 175013-18-0) Akute Giftigheid Inaseming Kategorie 3, H331; Velirritasie Kategorie 2, H315, Waterlewend Akut Kategorie 1, H400; Waterlewend Kronies Kategorie 1, H410 (12.8 % m/m).

Kalsiumdodesielbenseensulfonaat (Cas no: 26264-06-2) Akute Giftigheid Mondelings Kategorie 4, H302; Velirritasie Kategorie 2, H315; Oogskade Kategorie 1, H318; Waterlewend Kronies Kategorie 4, H413 (< 10 % m/m).

#### NOODHULP BEHANDELING

In geval van 'n ongeluk of as jy onwel voel, verkry onmiddellik mediese advies en wys hierdie ETIKET waar moontlik

- INASEMING:**
- Neem die slagoffer weg van die onmiddellike bron van blootstelling. Verskuif die slagoffer na vars lug as dit veilig gedoen kan word en hou gemaklik. Indien die slagoffer ophou asemhaal, pas kunsmatige asemhaling toe.
  - Dien suurstof toe as die slagoffer se asemhaling moeilik of onreëlmatig is en verkry mediese hulp.
- VEL:**
- Verwyder en isoleer besmette klere, skoene en leergoedere en stort.
  - Spoel aangetaste areas (vel) onmiddellik met nieskurende seep of sagwerkende wasmiddel en groot hoeveelhede lopende water. Was besmette klere voor hergebruik.
  - Kry mediese hulp indien irritasie ontwikkel en voortduur.
- OË:**
- Spoel oë DADELIK met skoon lopende water vir ten minste 15 minute terwyl die ooglede vanmekaar gehou word. Verwyder kontaklense na 5 minute indien aanwesig en maklik om te doen. Hou aan met spoel terwyl ooglede vanmekaar gehou word.
  - Kry onmiddellik mediese hulp indien irritasie voortduur.
- OPNEMING:**
- Indien ingesluk, MOENIE vomering induseer nie, tensy 'n gifsentrum of dokter opdrag gee om dit te doen.
  - Laat die persoon slukgies water neem indien dit moontlik is om te sluk. Moet nooit iets per mond aan 'n bewustelose persoon gee nie. Indien die persoon wel vomeer, hou aan om vloeistowwe te gee. Verkry mediese hulp.
- NOTA AAN GENEESHEER:**
- Daar is nie 'n spesifieke teenmiddel nie. Alle behandeling moet gebaseer word op waargenome tekens en simptome van nood by die pasiënt. Uitvoering van maagspoeling word aanbeveel.
- MOONTLIKE GESONDHEIDSGEVOLGE, AKUUT EN VERTRAAGD:**
- Gevolge van blootstelling (inaseming, opneming of velkontak) aan stof kan vertraag wees.

#### WEERSTANDSWAARSKUWING

Vir weerstandsbestuur: **BOSTRIN 380 WG** is 'n FRAC groepkode (11) en (7) swamdoder. Enige swam populasie mag individue insluit wat 'n natuurlike weerstand teen **BOSTRIN 380 WG**, of enige ander FRAC groepkode (11) en (7) swamdoders het. Indien hierdie swamdoders herhaaldelik aangewend word, kan die weerstandbiedende individue uiteindelik die swam populasie oorheers. Hierdie weerstandbiedende swamme sal waarskynlik nie deur **BOSTRIN 380 WG** of enige ander FRAC groepkode (11) en (7) swamdoders beheer word nie.

#### Om weerstand te voorkom of te vertraag:

- vermy die herhaaldelike gebruik van swamdoders met dieselfde swamdoder groep kode. Wissel af met, of gebruik in tenkmengsels met geregistreerde produkte van ander swamdoder groepkodes,
- raadpleeg toepaslike individuele produketikette wanneer daar afgewissel word, of tenkmengsels gemaak word, met produkte in ander swamdoder groepkodes,
- integreer ander beheermaatreëls (chemies, verbouing, biologies) in swamdoderprogramme,
- waar weerstand bekend is of vermoed word, moet **BOSTRIN 380 WG** nie alleen toegedien word nie, maar in kombinasie met geskikte swamdoders van 'n ander swamdoder groepkode. Hierdie bestuur strategie om weerstand te voorkom, moet egter nie swamdoder produkte insluit waar weerstand in die verlede aangemeld is nie, of dieselfde werkswyse het nie,
- vir spesifieke inligting oor weerstandsbestuur kontak die registrasiehouer van hierdie produk of jou plaaslike verskaffer,
- besoek die FRAC webtuiste by <https://www.frac.info/> vir meer inligting,
- om die effektiwiteit van **BOSTRIN 380 WG** te handhaaf, is dit belangrik om die ontwikkeling van siekteweerstand teen (11) en (7) swamdoders te voorkom.

#### WERKINGSWYSE

Boscalid is 'n piridien-karboksamied (FRAC-groep 7) breë spektrum swamdoder wat die suksinaat-ubikinoon oksidoreduktase sisteem in kompleks II van die mitochondriale elektronoordragketting (ATP Produksie) inhibeer. Laasgenoemde inhibeer spoorontkieming, die verlenging van die kiembuis, appressorium ontwikkeling en miselium ontwikkeling.

Piraklostrobien behoort aan die strobilurien klas swamdoders (FRAC-groep 11). Strobilurine, ook bekend as QoI swamdoders, inhibeer mitochondriale respirasie wat lei tot 'n energietekort in die swamselle deur energieproduksie te staak wat swamdood veroorsaak (inhibeer spoorontkieming, miseliumgroei en sporulering).

#### GEBRUIKSBEPERKINGS

- Dit is belangrik dat **BOSTRIN 380 WG** voorkomend, voordat simptome ontwikkel, aangewend word, soos in die toedieningstabel aanbeveel word.
- Gebruik slegs die aanbevole dosisse wat op die etiket aangedui word, MOENIE die dosisse verlaag nie.
- **BOSTRIN 380 WG** moet as 'n voldekbepuiting aangewend word.
- Moet nooit **BOSTRIN 380 WG** as 'n regstellende of genesende behandeling, wanneer siekte reeds teenwoordig is, of na 'n mislukte behandeling van enige produk, aanwend nie.
- Wanneer 'n tenkmengsel gebruik word, of met ander swamdoders gewissel word, gebruik slegs geregistreerde mengbare produkte wat individueel ook effektiewe siektebeheer kan toepas.
- Herhaal toediening indien dit binne twee ure na aanwending reën.

#### GEBRUIKSAANWYSINGS – gebruik soos aangedui

#### VERENIGBAARHEID:

**BOSTRIN 380 WG** is met meeste swamdoders, insekdoders en mytdoders verenigbaar. Die verenigbaarheid van **BOSTRIN 380 WG** met ander produkte hang van die formulering van die verskeie produkte, sowel as die kwaliteit van die spuitwater wat gebruik word, af. Aangesien die formulering van ander produkte van tyd tot tyd sonder ons wete kan verander, en die kwaliteit van die spuitwater tussen produsente ook kan verskil, word dit dus aanbeveel dat 'n kleinskaalse fisiese verenigbaarheidstoets voor die opmaak van 'n tenkmengsel, uitgevoer moet word. Raadpleeg altyd die etikette van die produkte wat saam met **BOSTRIN 380 WG** in 'n tenkmengsel gevoeg word.

#### MENGINSTRUKSIES:

Vul die spuittenk met skoon water tot halfvol. Meet die hoeveelheid **BOSTRIN 380 WG** wat nodig word af, en meng dit vooraf met minstens 10 ℓ water. Meng enige ander produkte wat in die tenkmengsel moet kom afsonderlik en op dieselfde wyse as laasgenoemde. Terwyl die water in die tenk gemeng word, voeg die voorafgemengde produk(te) by in die volgende mengvolgorde: buffer/versuurder, benatbare poeiers, waterdispergeerbare korrels, suspensie konsentrate, emulgeerbare konsentrate en oplosbare konsentrate laaste. Voeg produkte wat in wateroplosbare materiaal verpak is eerste by en **BOSTRIN 380 WG** daarna. Vul spuittenk met skoon water tot by finale volume terwyl dit voortdurend gemeng word. **MOET NIE** toelaat dat die mengsel uitsak nie. **DIE TENKMENSGEL MOET ONMIDDELLIK UITGESPUIT WORD EN NIE TOEGELAAT WORD OM OORNAG IN DIE SPUITENK TE STAAN NIE.** Spuittoerusting moet deeglik uitgespuit/skoongemaak word na afloop van toediening.

**MAAK SPUITTOERUSTING ONMIDDELLIK NA GEBRUIK SKOON:** Spesiale aandag en versorging moet tydens die skoonmaak van alle toerusting wat in die meng- en toedieningsproses van **BOSTRIN 380 WG** gebruik is, toegepas word om skade aan ander gewasse te voorkom.

#### GRONDTOEDIENING:

- **BOSTRIN 380 WG** kan met 'n konvensionele hoë volume spuitapparaat toegedien word. Die spuitpunte moet met holkeëlsputkoppe toegerus word wat medium tot fyn druppels verseker.
- Maak seker dat die spuitapparaat korrek gekalibreer is, en gaan gereeld na om te verseker dat die korrekte dosis en bedekking toegedien word.
- Die verspreiding van die spuitmengsel op die teikengebied moet uniform wees. Moenie dat die toedienings oorvleuel nie aangesien dit die gewasse kan beskadig.
- Die verspreiding van die spuitmengsel moet uniform wees en deeglike bedekking van die hele plant (insluitende die stele en blare) is belangrik, gebruik genoegsame water en toepaslike spuitapparaat. Moet nie deur ultra-lae volume (ULV) spuitsisteme toedien nie.
- Herhaal die toediening indien dit binne twee (2) ure na bespuiting reën.
- Vermoed drywing na ander gewasse, weiding, riviere, damme en ander nie-teiken areas.

#### LUGTOEDIENING – (SLEGS AARTAPPELS):

##### **VERMY SPUITSTOF WEGDRYING TEN ALLE TYE**

Lugtoediening van **BOSTRIN 380 WG** mag slegs deur 'n geregistreerde lugbespuitingsoperateur en met akkurate gekalibreerde vliegtuie, soos deur SANS 10118 (Aerial Application of Agricultural Remedies) instruksies vereis, uitgevoer word. Dit is belangrik om te verseker dat die spuitstof eweredig oor die teiken area versprei word en dat die verlies van spuitstof gedurende toediening tot 'n minimum beperk word. Deeglike bedekking is van kardinale belang vir effektiewe resultate. Gebruik slegs op gewasse soos in die etiket aangedui word. Dit is van belang dat die volgende kriteria gevolg word:

#### **TOEDIENINGSRIGLYNE:**

- **Volume:** 'n Minimum volume spuitmengsel van 30 – 40 ℓ water/ha word aanbeveel behalwe indien anders in die toedieningstabel aanbeveel word. Aangesien **BOSTRIN 380 WG** nie teen 'n verlaagde volume toediening geëvalueer is nie, kan die registrasiehouer nie effektiwiteit waarborg of verantwoordelik vir enige nadelige gevolge gehou word, indien hierdie produk teen 'n verlaagde volume aangewend word as wat aanbeveel is nie.
- **Druppelbedekking:** 'n Druppelbedekking van 50 – 70 druppels per vierkante sentimeter (cm<sup>2</sup>) moet op die teikenarea herwin word.
- **Druppelgrootte:** 'n Druppelspektrum met 'n VMD van 280 – 300 mikron (µm) word aanbeveel. Beperk die produksie van druppels kleiner as 150 mikron (hoë drywing en verdampingspotensiaal) tot 'n minimum.
- **Vlieghoogte:** Handhaaf die hoogte van die spuitbalk bo die teiken op 3 – 4 m. Moet nie spuit wanneer vliegtuig duik, uitklim of draai nie.
- Stel alle inwoners in die onmiddellike omgewing van die gebied wat bespuit gaan word in kennis en reik die nodige waarskuwings uit.

#### **APPARAAT:**

- Gebruik geskikte atomiseringsapparaat (hidrouliese spuitkoppe of roterende atomiseerders) wat die vereiste druppelgrootte en bedekking sal produseer, maar die minste verlies van produk verseker.
- Die operateur moet die spuitstelsel so oprig dat dit 'n druppelspektrum met die kleinste moontlike relatiewe span produseer.
- Alle spuitkoppe of atomiseerders moet in die binneste 60 – 75 % van die vlerkspan geplaas word om te verhoed dat druppels binne-in die vlerkpuntvorteks beweeg.

#### **METEOROLOGIESE TOESTANDE:**

- Die verskil in temperatuur tussen die nat- en droë-boltermometer van 'n swaaihigrometer, moet nie 8 °C oorskry nie.
- Stop bespuiting indien die windspoed 15 km/h oorskry of verlaag tot laer as 5 km/h.
- Stop bespuiting tydens turbulente, onstabiele en droë toestande gedurende die hitte van die dag.
- Bespuiting onder temperatuur inversie toestande (deur bo of binne die inversie laag te spuit) en/of hoë lugvog toestande (relatiewe humiditeit 80 % en meer) mag tot die volgende probleme aanleiding gee:
  - verlaagde doeltreffendheid aangesien die druppels as 'n wolk in die lug bly hang en moontlik verdamp (onvoldoende bedekking op teiken),
  - skade aan nie-teiken gewasse of sensitiewe areas as gevolg van wegdrywing van die spuitwolk na nie-teiken areas.
- Onder die volgende klimaatstoestande kan drywing tot en met 3 – 5 km vanaf die naaste bespuitingsroete van die vliegtuig voorkom:
  - Bewolkte weer met relatiewe humiditeit van 80 % en lae lugbeweging van minder as 5 km/h.
  - Wanneer sulke toestande voorkom moet lugtoediening **NIE** op sensitiewe gewasse uitgevoer word **NIE**.
- Verseker dat teiken areas akkuraat gemerk is en dat die lugbespuitingsoperateur presies weet watter areas gespuit moet word. Voorsien die vlieënier met duidelike aanwysings van watter areas behandel moet word, verkieslik d.m.v. 'n kaart of GPS koördinate. Dui aanliggende omgewingssensitiewe areas of sensitiewe aangrensende gewasse, byekorwe of waterbronne wat deur die plaagdoder geaffekteer kan word aan.
- Verkry 'n versekering van die lugbespuitingsoperateur dat daar aan al die bogenoemde vereistes voldoen sal word en dat data van belang in 'n logboek saamgevat sal word vir toekomstige verwysing.
- Herhaal toediening indien dit binne twee (2) ure na aanwending reën.

TOEDIENINGSTABEL		
GEWAS en SIEKTE	DOSIS	OPMERKINGS
AARBEIE Antraknose	Grondtoediening 1.2 kg/ha	► Dien <b>BOSTRIN 380 WG</b> teen 7 – 14 dae spuitintervalle in 'n voorkomende spuitprogram, saam met geregistreerde swamdoders vanuit ander FRAC groepe, toe.

<p>(<i>Colletotrichum</i> spp.)</p> <p><b>Botrytis grysskimmel</b> (<i>Botrytis cinerea</i>)</p> <p><b>Poeieragtige meeldou</b> (<i>Sphaerotheca macularis</i>)</p>		<ul style="list-style-type: none"> <li>▶ Dien in voldoende water volumes toe om goeie bedekking te verseker.</li> <li>▶ Gebruik die korter spuitinterval van 7 dae tydens gunstige toestande vir siekteontwikkeling, of waar hoë siektedruk verwag word.</li> <li>▶ Begin 'n voorkomende spuitprogram nie later as 10 % blom nie.</li> <li>▶ 'n Maksimum van drie (3) <b>BOSTRIN 380 WG</b> of ander groep 7 of 11 swamdoders kan per seisoen toegedien word.</li> <li>▶ MOENIE meer as twee (2) opeenvolgende <b>BOSTRIN 380 WG</b> toedienings uitvoer, voordat daar met 'n swamdoder vanuit 'n ander FRAC groep afgewissel word nie.</li> </ul>
<p><b>AARTAPPELS</b></p> <p><b>Vroeë roes</b> (<i>Alternaria solani</i>)</p>	<p><b>Grond- en Lugtoediening</b> 300 g/ha</p> <p><b>SPUITVOLUMES</b> <u>Grond-/Trekertoediening:</u> Minimum 500 ℓ water/ha <u>Lugtoediening:</u> 30 – 40 ℓ water/ha</p> <hr/> <p><b>Grondtoediening</b> 600 g/ha</p> <p><b>SPUITVOLUME:</b> <u>Grond-/Trekertoediening:</u> Minimum 500 ℓ water/ha</p>	<ul style="list-style-type: none"> <li>▶ Dien <b>BOSTRIN 380 WG</b> teen 10 – 14 dae spuitintervalle in 'n voorkomende spuitprogram, saam met geregistreerde swamdoders vanuit ander FRAC groepe, toe.</li> <li>▶ Wissel <b>BOSTRIN 380 WG</b> toedienings met onverwante kontak swamdoders af.</li> <li>▶ Gebruik voldoende water volumes vir volledige bedekking.</li> <li>▶ 'n Maksimum van drie (3) <b>BOSTRIN 380 WG</b> of ander groep 7 of 11 swamdoders kan per seisoen toegedien word.</li> </ul> <hr/> <ul style="list-style-type: none"> <li>▶ Wanneer toestande gunstig vir siekteontwikkeling is of waar hoë siektedruk verwag word, kan 'n maksimum van twee (2) <b>BOSTRIN 380 WG</b> toedienings, 21 – 28 dae uitmekaar, in 'n voorkomende spuitprogram met geregistreerde swamdoders vanuit verskillende FRAC groepe, toegedien word.</li> <li>▶ Wissel <b>BOSTRIN 380 WG</b> toedienings met onverwante kontak swamdoders af.</li> </ul>
<p><b>BESSIES</b> (swartbessies, frambose, bloubessies en korente)</p> <p><b>Blaarroes</b> (<i>Thekopsora minima</i>)</p>	<p><b>Grondtoediening</b> 60 g/100 ℓ water</p>	<ul style="list-style-type: none"> <li>▶ Dien die eerste <b>BOSTRIN 380 WG</b> toediening na-oes toe met die aanvang van die nuwe groei en voor die eerste herfs-reën.</li> <li>▶ Dien <b>BOSTRIN 380 WG</b> toe soos benodig om die nuwe groei gedurende winter te beskerm.</li> <li>▶ 'n Maksimum van drie (3) <b>BOSTRIN 380 WG</b> of ander groep 7 of 11 swamdoders kan per seisoen toegedien word.</li> </ul>
<p><b>CAPSICUM/RISSIES</b> (brandrissies, paprika en soetrissies)</p> <p><b>Poeieragtige meeldou</b> (<i>Leveillula taurica</i>)</p> <p><b>Cercospora blaarvlek</b> (<i>Cercospora capsici</i>)</p> <p><b>Antraknose</b> (<i>Colletotrichum</i> spp.)</p>	<p><b>Grondtoediening</b> 500 g/ha</p> <p><b>SPUITVOLUME:</b> <u>Grond-/Trekertoediening:</u> 300 – 500 ℓ water/ha</p>	<ul style="list-style-type: none"> <li>▶ Dien <b>BOSTRIN 380 WG</b> teen 10 – 14 dae spuitintervalle in 'n voorkomende spuitprogram, saam met geregistreerde swamdoders vanuit ander FRAC groepe, toe.</li> <li>▶ Gebruik voldoende water volumes vir volledige bedekking.</li> <li>▶ 'n Maksimum van drie (3) <b>BOSTRIN 380 WG</b> of ander groep 7 of 11 swamdoders kan per seisoen toegedien word.</li> </ul>
<p><b>NEUTBOME</b> (amandels, makadamas, pistasieneute, kasjoeneute, haselneute en pekanneute)</p> <p><b>Bloeiselsversenging</b> (<i>Monilinia / Cladosporium</i> spp.)</p> <p><b>Makadama: Vrughulselvrot</b> (<i>Colletotrichum</i> spp.)</p> <p><b>Makadama: Bloeiselskroei/'Rat tail'</b> (<i>Cladosporium cladosporioides</i>)</p> <p><b>Vrughulselvlek</b> (<i>Pseudocercospora macadamiae</i>)</p>	<p><b>Grondtoediening</b> 800 g/ha</p> <p><b>SPUITVOLUME:</b> <u>Grond-/Trekertoediening:</u> 1200 – 1500 ℓ water/ha</p>	<ul style="list-style-type: none"> <li>▶ Dien <b>BOSTRIN 380 WG</b> voor siekteontwikkeling in 'n voorkomende spuitprogram toe, begin teen blomaar verskyning.</li> <li>▶ Volg op met 'n tweede toediening 14 dae na die eerste toediening.</li> <li>▶ MOENIE meer as twee (2) opeenvolgende <b>BOSTRIN 380 WG</b> toedienings uitvoer voordat daar met onverwante swamdoders vanuit ander FRAC groepe afgewissel word nie.</li> <li>▶ 'n Maksimum van drie (3) <b>BOSTRIN 380 WG</b> of ander groep 7 of 11 swamdoders kan per seisoen toegedien word.</li> <li>▶ Vir <b>bloeiselskroei</b>: Dien <b>BOSTRIN 380 WG</b> teen vroeë blom toe en gaan voort met spuitprogram tot einde van blomblaar val.</li> </ul>
<p><b>PERSIMMONS</b> <i>Alternaria alternata</i></p>	<p><b>Grondtoediening</b> 60 g/100 ℓ water</p>	<ul style="list-style-type: none"> <li>▶ Dien 'n maksimum van drie (3) <b>BOSTRIN 380 WG</b> toedienings binne 'n spuitprogram met ander FRAC swamdodergroepe toe.</li> <li>▶ Begin spuitprogram 10 dae voor volblom.</li> <li>▶ Dien <b>BOSTRIN 380 WG</b> as 'n hoë volume voldebespuiting, tot by punt van afloop, toe om deeglike bedekking te verseker.</li> </ul>
<p><b>SOJABONE</b> <b>Sojaboonroes</b></p>	<p><b>Grondtoediening</b> 600 g/ha</p>	<ul style="list-style-type: none"> <li>▶ Dien <b>BOSTRIN 380 WG</b> voorkomend, voor die eerste tekens van siekteontwikkeling, gewoonlik teen die begin van blom, toe.</li> </ul>

<i>(Phakopsora pachyrhizi)</i>	<p><b>SPUITVOLUME:</b>  <u>Grond-/Trekertoediening:</u>  200 – 320 ℓ water/ha</p>	<ul style="list-style-type: none"> <li>▶ Herhaal toediening 21 – 28 dae later.</li> <li>▶ Gebruik die korter spuitinterval van 21 dae tydens gunstige toestande vir siekteontwikkeling of waar hoë siektedruk verwag word.</li> </ul>
<p><b>SONNEBLUM</b>   <b>Alternaria blaarvlek</b>  <i>(Alternaria helianthin, A. zinnia en A. alternata)</i></p>	<p><b>Grondtoediening</b>  600 – 800 g/ha</p> <p><b>SPUITVOLUME:</b>  <u>Grond-/Trekertoediening:</u>  300 – 400 ℓ water/ha</p>	<ul style="list-style-type: none"> <li>▶ Begin spuitprogram wanneer 6 – 8 ware blare oopgevou is en ideaal voor enige siektesimptome teenwoordig is.</li> <li>▶ Die laer dosis is geskik wanneer <b>BOSTRIN 380 WG</b> in die vroeë groeistadium toegedien word, voordat siekte voorkom. Gebruik die hoër dosis vir die tweede toediening.</li> <li>▶ Die tweede toediening moet aan die begin van blom toegedien word, wanneer die eerste geel blomblare teenwoordig is.</li> <li>▶ MOENIE <b>BOSTRIN 380 WG</b> toedien sodra die blomkoppe begin hang nie.</li> <li>▶ Dien <b>BOSTRIN 380 WG</b> toe in voldoende watervolumes oor die bokant van die plante om voldoende blaarbedekking en penetrasie tussen die blare te verseker.</li> <li>▶ 'n Maksimum van twee (2) <b>BOSTRIN 380 WG</b> toedienings kan per seisoen toegedien word.</li> <li>▶ Goeie onderdrukking van poeieragtige meeldou (<i>Erysiphe cichoracearum</i>) kan bereik word wanneer <b>BOSTRIN 380 WG</b> teen die hoër dosis toegedien word voordat simptome sigbaar is.</li> </ul>
<p><b>TAMATIES</b>   <b>Vroeë roes</b>  <i>(Alternaria solani)</i></p>	<p><b>Grondtoediening</b>  300 g/ha</p> <p><b>SPUITVOLUME:</b>  <u>Grond-/Trekertoediening:</u>  Indien water volume 500 ℓ water/ha oorskry, dien teen dosis van 60 g <b>BOSTRIN 380 WG</b>/100 ℓ water toe</p>	<ul style="list-style-type: none"> <li>▶ Dien <b>BOSTRIN 380 WG</b> teen 10 – 14 dae spuitintervalle in 'n voorkomende spuitprogram, saam met geregistreerde swamdoders vanuit ander FRAC groepe, toe.</li> <li>▶ Wissel <b>BOSTRIN 380 WG</b> toedienings met onverwante kontak swamdoders af.</li> <li>▶ Gebruik voldoende water volumes vir volledige bedekking.</li> <li>▶ Dien <b>BOSTRIN 380 WG</b> in minstens 500 ℓ water/ha toe.</li> <li>▶ 'n Maksimum van drie (3) <b>BOSTRIN 380 WG</b> of ander groep 7 of 11 swamdoders kan per seisoen toegedien word.</li> </ul>
<p><b>UIE (insluitend grasuie)</b>   <b>Alternaria vlek</b>  <i>(Alternaria porri)</i></p>	<p><b>Grondtoediening</b>  300 g/ha</p> <p><b>SPUITVOLUME:</b>  <u>Grond-/Trekertoediening:</u>  300 – 500 ℓ water/ha</p>	<ul style="list-style-type: none"> <li>▶ Dien <b>BOSTRIN 380 WG</b> teen 10 – 14 dae spuitintervalle in 'n voorkomende spuitprogram, saam met geregistreerde swamdoders vanuit ander FRAC groepe, toe.</li> <li>▶ Gebruik voldoende water volumes vir volledige bedekking.</li> <li>▶ 'n Maksimum van drie (3) <b>BOSTRIN 380 WG</b> of ander groep 7 of 11 swamdoders kan per seisoen toegedien word.</li> <li>▶ Voeg 'n bymiddel teen die geregistreerde dosis by die spuitmengsel.</li> </ul>

Raadpleeg die betrokke etikette vir **GEBRUIKSBEPERKINGS, WAARSKUWINGS** (insluitend **WEERSTANDSWAARSKUWING**), **VOORSORGMATREËLS** en **GEBRUIKSAANWYSINGS** indien dit saam met **BOSTRIN 380 WG** in 'n tenkmengsel toegedien word.