

# AG-TIN

Reg. No. L9493 Act No. 36 of 1947



FUNGICIDE



## FRAC FUNGICIDE GROUP CODE 30

**A contact suspension concentrate fungicide for the control of diseases in potatoes, pecan nuts and onions as listed.**

### Active Ingredient

Fentin hydroxide (organic tin) 480 g/l

UN No. 3020

**agchem**  Member of **Rolfes**  
GROUP

**Registered, Manufactured and Distributed by:**  
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Content • Batch number • Manufacture date

AG-TIN-01-2013/12



HARMFUL



**SHAKE WELL** Shake well before use • Store at room temperature  
Keep out of direct sunlight • Keep container closed when not in use



LIFT HERE

## WARNINGS:

- **Withholding periods:** Minimum number of days between last application and harvest:
  - Do not apply later than 14 days before lifting of potatoes and onions
  - Do not spray pecan nuts after the shucks have opened.
- Handle with care.
- Harmful if swallowed.
- Irritating to eyes, skin and by inhalation.
- Toxic to fish and other animals.
- Store away from food and feed.
- Keep out of reach of children, uninformed persons and animals.
- In the case of a poisoning, call a doctor immediately and present this label.
- **Aerial application:** Notify all inhabitants in the immediate vicinity of the area to be treated and issue the necessary warnings. Do not spray over adjacent areas or water and do not allow spray to drift there.
- **Re-entry interval:** Do not enter treated area within 1 day after treatment 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 soil, 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, 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:

- Do not inhale spray mist.
- Wear rubber gloves, eye and face protection whilst mixing and applying.
- Do not eat, drink or smoke whilst mixing or applying, or before washing hands and face.
- Wash immediately with soap and water after accidental skin contact. Also then change and wash your work clothes and wash yourself.
- If you spill it on your clothes, change and wash them before wearing them again.
- If any product comes into the eyes, immediately flush them with clean water for at least 15 minutes.
- While spraying, avoid contact with the spray as much as you can. Avoid spray drift onto other crops, grazing, rivers, dams and areas not under treatment.
- Clean applicator thoroughly after use and dispose of wash water where it will not contaminate crops, grazing, rivers or dams.
- Prevent contamination by the product of food, feed, drinking water and eating utensils.
- Invert the empty container over the spray or mixing tank and allow to drain for at least 30 seconds after the flow has slowed down to a drip. Thereafter rinse the container three times with a volume of water equal to a minimum of 10 % of that of the container. Add the rinse water to the contents of the spray tank before destroying the container.
- Destroy empty container by perforation and flattening and never re-use for any other purpose.

## FIRST AID:

**Ingestion:** ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Give some water to the person to drink, but only if the person is fully conscious. Seek medical attention immediately.

**Skin contact:** Causes irritation of the skin and mucous membranes. Remove any contaminated clothing. Wash the skin thoroughly with soap and plenty of clean water for at least 15 minutes. Seek medical attention if any symptoms worsen or persist.

**Eye contact:** Causes irritation of the eyes. Immediately flush with plenty of clean water for at least 15 minutes. Check for, and remove if present, any contact lenses, after the first 5 minutes of flushing, and then continue flushing. Seek medical attention if any symptoms worsen or persist.

**Inhalation:** Inhalation may cause irritation of the linings of the respiratory tract. Immediately move the person to fresh air. Seek medical attention if any symptoms worsen or persist.

## RESISTANCE WARNING:

For resistance management, **AG-TIN** is a group code 30 fungicide. Any fungus population may contain individuals naturally resistant to **AG-TIN** and other group code 30 fungicides. The resistant individuals can eventually dominate the fungus population if these fungicides are used repeatedly. These resistant fungi may not be controlled by **AG-TIN** or any other group code 30 fungicides.

To 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.
- Integrate other control methods (chemical, cultural, biological) into disease control programmes.

For specific information on resistance management contact the registration holder of this product.

## DIRECTIONS FOR USE: USE ONLY AS INDICATED

### COMPATIBILITY:

Do not use with surfactants, spreaders or stickers. The use of other agrochemicals (including other agricultural remedies and certain types of fertilisers) together with **AG-TIN** may also result in phytotoxicity. Avoid using **AG-TIN** in combination (mixture) with other agrochemicals unless the products (mixtures) have been specifically proven to be non-phytotoxic to the crop.

**AG-TIN** is not compatible with amino acid chelates (such as those in the **PRO NuTech** and **CARBOLGY** ranges) as well as any foliar feeds containing organic acids, e.g., **ONLY-K**.

### MIXING INSTRUCTIONS:

Agitate thoroughly during the spraying operation. Do not leave the spray mixture overnight.

### FOLIAR APPLICATION:

Ensure full coverage of leaf surfaces. It is preferable to use high pressure spray equipment, but do not spray from a short distance.

### AERIAL APPLICATION:

Aerial application of **AG-TIN** may only be done by a registered aerial application operator using a correctly calibrated, registered 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.

It is therefore essential that the following criteria are met:

- A spray volume of 30 ℓ/ha is recommended. As this product has not been evaluated at a reduced volume rate, the registration holder cannot guarantee efficacy, or be held responsible for any adverse effects if this product is applied aerially at a lower volume rate than recommended above.
- A minimum of 25 – 35 droplets/cm<sup>2</sup> must be recovered at the target area.
- Restrict the production of fine droplets (less than 150 microns) to a minimum. A droplet spectrum with a VMD of 280 – 300 microns is recommended. Droplets smaller than 150 microns has a high drift and evaporation potential.
- Maintain the height of the spray boom at 3 – 4 metres above the target. At wind speeds of 8 – 15 km/h lower the flying height to 2 metres above the target. Stop spraying if the wind speed exceeds 15 km/h.
- Do not spray if the aircraft is in a climb, during a dive, at the top or when banking.
- Use suitable atomising equipment that will produce the desired droplet size and coverage, but will ensure the minimum loss of product through drift. The spraying system must produce a droplet spectrum with the lowest possible Relative Span.
- Position all atomisers within the inner 60 to 75 % of the wingspan to prevent droplets from entering the wingtip vortices.
- The difference in temperature between the wet and dry bulb thermometers of a whirling hygrometer should not exceed 8 °C.
- Do not spray during the heat of the day when conditions are unstable (downdraughts and rising thermals).
- Spraying under temperature inversion conditions (spraying in or above the inversion layer) and/or high humidity conditions (relative humidity 80 % and above) may lead to:
  - reduced efficacy due to suspension and evaporation of small droplets in the air resulting in inadequate coverage, and
  - damage to other sensitive crops and/or non-target areas through drifting of the suspended spray cloud away from the target field.
- Make sure that the Aerial Spray Operator knows exactly which fields to spray.
- Obtain an assurance from the Aerial Spray Operator that the above requirements will be met and that relevant data will be compiled in a logbook and kept for future reference.

CROP/DISEASE	DOSAGE RATE	REMARKS
<b>Onions</b> Purple blotch <i>(Alternaria porri)</i>	100 mℓ/100 ℓ water	Apply in 300 – 500 ℓ water/ha, depending on plant size. Commence spraying at the first signs of infection and repeat at 10 – 14 day intervals. Ensure irrigation is scheduled prior to and not following application.
<b>Downy mildew</b> <i>(Peronospora destructor)</i>	100 mℓ/100 ℓ water	Apply 3 – 4 applications with 10 – 14 day intervals. Apply in 300 – 500 ℓ water/ha, depending on plant size. Start as soon as the disease is noticed, or when weather conditions are conducive to the development of the disease. Ensure complete spray coverage.
<b>Pecan nuts</b> Scab <i>(Fusicladium effusum)</i>	50 mℓ/100 ℓ water	Apply the first application at green tip stage (early October). Repeat 4 times with 3 week intervals, with the second of these 4 applications being applied at the first browning of tips of small nuts, and the last of these being applied not later than opening of the shucks.
<b>Potatoes</b> Late blight <i>(Phytophthora infestans)</i> Early blight <i>(Alternaria solani)</i>	<b>GROUND:</b> 70 – 100 mℓ/ 100 ℓ water  <b>AERIAL:</b> 400 mℓ + 2 kg Mancozeb 800 WP/ha	Commence spraying before or at the first signs of infection and repeat at 10 – 14 day intervals. Increase the dosage to 100 mℓ/100 ℓ water under conditions favouring disease development. Apply in a minimum of 200 ℓ water/ha.  Apply in a minimum of 30 ℓ water/ha. Under conditions favouring development of the disease, reduce the frequency of application to 7 days. <b>Important:</b> Do not apply more than 600 mℓ <b>AG-TIN</b> per hectare. Do not apply to young plants or plants under stress as phytotoxicity may result, and do not apply with a wetter-sticker as this may also result in phytotoxicity.