

BEFORE USING THIS PRODUCT, READ THE LABEL CAREFULLY. KEEP OUT OF REACH OF CHILDREN AND ANIMALS.

SEED TREATMENT



ECLIPSE ST

Reg. No. L 7321 Act No. 36 of 1947

4: 13/01/2023 - June 2023

A systemic water dispersible seed treatment powder for the control of downy mildew, root and stem rot as well as damping -off caused by *phytophthora* and *pythium* in the crops as indicated.

ACTIVE INGREDIENT

metalaxyl (phenylamide) 350 g/kg

GROUP

4

FUNGICIDE



WARNING

Hazard Statements:

May cause an allergic skin reaction
Harmful to aquatic life with long lasting effects.

Precautionary Statements:

Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.

IF ON SKIN: Wash with plenty of water and non-abrasive soap.

If skin irritation or rash occurs: Get medical help.

kg

villa

UN Number: Not regulated

Registration holder: Meridian Agrochemical Company (Pty) Ltd

Co. Reg. No. 2000/010819/07

P.O. Box 801, Kempton Park, 1620

Tel. (011) 396 2233

Website: www.villacrop.co.za

24 HR EMERGENCY NUMBERS:

Griffon Poison Centre: +27 82 446 8946

24 HR Transport / Spill Emergency no: (Hazcall24) +27 86 044 4411

(Client: Villa Crop Protection)

REFER TO DETAILS AS PRINTED ON CONTAINER / BAG

DIRECTIONS FOR USE ENCLOSED

Batch Number:

Date of Manufacture:

ECLIPSE ST
Reg. No. L 7321 Act No. 36 of 1947
FUNGICIDE GROUP CODE: 4

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WARNINGS

Hazard statements

May cause an allergic skin reaction
Harmful to aquatic life with long lasting effects.

- Poisonous if swallowed.
- Store in a cool, dry place.
- Store away from food and feeds.
- Avoid storage above 35 ° C.
- Keep out of reach of children, uninformed persons and animals.
- Do not use treated seed for human or animal consumption.
- Treated seed in storage, must be stored apart from untreated seed and the containers must be clearly marked as such.

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 pests against the remedy concerned, as well as 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

Precaution statements:

Contaminated work clothing should not be allowed out of the workplace.
Avoid release to the environment.
Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.
IF ON SKIN: Wash with plenty of water and non-abrasive soap.
If skin irritation or rash occurs: Get medical help.
Dispose of content/container to suitable landfill in accordance with local regulations.

- Avoid contact with skin, eyes or clothing.
- Wash contaminated clothing immediately after use.
- Do not eat, drink or smoke whilst mixing or applying the product or before washing hands and face.
- While handling the concentrate, during treatment of the seed and while handling treated seeds wear the necessary protective clothing such as overalls, hat or cap, face shield, gloves and protective footwear.
- Clean applicator after use. Dispose of rinsate where it will not contaminate crops, pastures, rivers, dams and boreholes.
- Prevent contamination of food, feeds, drinking water and eating utensils.
- When treated seed is stored in containers, mark containers clearly "POISONED" and only use for this purpose.
- Avoid drift of spray onto other crops, grazing, rivers, dams and areas not under treatment.

Relevant hazardous components

Metalaxyl	350 g/kg
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FIRST AID TREATMENT

Remove the victim from the area of exposure. Wash off remaining material with plenty of water. In the event of any complaints or symptoms, avoid further exposure and consult a doctor. If exposed or concerned, get medical advice.

- **Inhalation:** Remove person from contaminated area to fresh air and assist breathing as needed. Get emergency medical help immediately if irritation occurs.
- **Skin:** Remove contaminated clothing and footwear. Wash affected areas with soap and water. Seek medical assistance should irritation persist. **Obtain medical attention if irritation or rash occurs.**
- **Eyes:** Flush eyes with clean water for at least 15 to 20 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after 5 minutes and continue rinsing. Seek medical attention.
- **Ingestion:** Seek medical assistance if large amount is ingested or if feeling ill. Never give anything by mouth to an unconscious person. If the person is alert, rinse mouth thoroughly with water. For advice, contact the National Poisons Centre.

NOTE TO PHYSICIAN

Treat symptomatically and supportively. No specific antidote known.

MODE OF ACTION

ECLIPSE ST is a systemic fungicide with protective and curative activity, absorbed by roots, stalk and leaves, translocated acropetally in the xylem. It inhibits polymerase complex I, resulting in interference with rRNA biosynthesis and protein synthesis.

PRODUCT PROPERTIES

ECLIPSE ST contains metalaxyl, a systemic fungicide with residual protective and curative properties.

RESISTANCE WARNING

ECLIPSE ST contains metalaxyl, which belongs to the chemical group phenylamides. (benalaxyl and oxadixyl are also members of this group with cross resistance to metalaxyl). Downy mildews (*Plasmopara*, *Peronospora*) and late blight (*Phytophthora*) in some cases are known to contain races which are resistant to fungicides belonging to phenylamides. In the case of apparent underperformance or unsatisfactory control by an **ECLIPSE ST** programme, it is essential that the possibility of fungal resistance be considered. In positive cases, **ECLIPSE ST** should immediately be substituted by a chemically unrelated systemic curative fungicide. Consult your supplier. To reduce selection of resistant pathogen races, **DO NOT APPLY ECLIPSE ST MORE THAN 4 TIMES PER SEASON.**

NOTE: Sub-standard application will lead to unsatisfactory control and assist in the development of resistance.

DIRECTIONS FOR USE: Use only as directed**Compatibility:**

The compatibility of **ECLIPSE ST** with other products depends on the formulations of the respective products as well as the quality of the dilution water to be used. As formulations change from time to time it is recommended that a physical compatibility test be done prior to the tank mixture being made. If **ECLIPSE ST** is used in tank mixture with other recommended products, consideration should be given to the restrictions of those respective products.

APPLICATION TO SEED**Mechanical seed dressing**

It is generally recommended to apply ECLIPSE ST as a slurry. The amount of water required will depend on the seed type (usually 300 to 500 ml/100 kg seed).

- Fill the slurry tank with the required volume of water.
- Add the required quantity of **ECLIPSE ST** onto the water surface and allow it to disappear into the water.
- Stir the powder/water mixture, to facilitate complete dispersion in the water.

Small seed lot treatment

ECLIPSE ST can be applied as a slurry, like that described above or by applying the water and the fungicide separately to the seed as follows:

- Place the seed into the mixing container.
- Moisten the seed with sufficient water (usually 300 to 500 ml /100 kg depending on the seed type).

- Mix the seed with the water for approximately 1 minute.
- Add the required amount of **ECLIPSE ST** to the seed lot by sprinkling the powder over the seeds while mixing.
- Continue mixing for 3 to 5 minutes and stop the process as soon as dust starts to form.

IMPORTANT – Seed must be sown within 5 months of treatment.

APPLICATION RATES FOR ECLIPSE ST AS A SEED TREATMENT

Crop/Disease	Dosage/100 kg Seed
<u>Dry Beans and Soybeans</u> Damping- off <i>Pythium spp.</i>	Apply 30 g ECLIPSE ST
<u>Cotton, Peas and Sorghum</u> Damping- off <i>Pythium spp.</i>	Apply 50 g ECLIPSE ST
<u>Lucerne</u> Damping- off <i>Pythium spp.</i>	Apply 100 g ECLIPSE ST
<u>Peas</u> Downy mildew and Damping- off <i>Pythium spp.</i>	Apply 200 g ECLIPSE ST
<u>Sunflowers</u> Downy mildew <i>Plasmopara halstedii</i>	Apply 570 g ECLIPSE ST

SOIL TREATMENT WITH ECLIPSE ST

General

ECLIPSE ST must be applied to the soil in one of the following ways. It may be sprayed onto nursery beds followed by incorporation prior to planting or applied as a soil drench. Whichever method is used, it is important that the fungicide be as evenly distributed as possible in the root zone of the seedlings. The performance of soil drench treatments is usually improved if they are well watered in or are followed by irrigation.

Soil treatment prior to planting is the best means of ensuring protection from attack by *Pythium* or *Phytophthora*. Good results may still be obtained when **ECLIPSE ST** is used curatively provided that no serious damage to roots or stems has taken place before the chemical is applied.

Soil treatment with **ECLIPSE ST** must be repeated every 10 to 12 weeks.

Do not apply **ECLIPSE ST** to any crop or situation not mentioned in this label/instruction leaflet.

SOIL DRENCH TREATMENT

ECLIPSE ST should be drenched into **moist** soil.

TOBACCO – *Phytophthora* and *Pythium* seedling diseases:

Apply **ECLIPSE ST** as a soil drench using 15 l mixture/10 m² on tobacco seedlings.

Use **ECLIPSE ST** at 70 g/100 l water, 3 weeks after emergence, or alternatively apply a split application as follows:

Severe disease pressure:

Use **ECLIPSE ST** initially at 70 g/100 l water, 3 weeks after emergence. Repeat at 35 g/100 l water about 5 days before transplanting.

Low disease pressure:

Use **ECLIPSE ST** initially at 35 g/100 l water, 3 weeks after emergence. Repeat at 35 g/100 l water about 5 days before transplanting.

It is advisable to wash the product into the soil after application using 15 l clean water/10 m².

The second application should coincide with irrigation to soften the soil for seedling pulling.

NB. These treatments will not protect the tobacco plant once transplanted.

Drenching of tobacco seedbeds with a suitable registered broad-spectrum fungicide at 7 to 14 day intervals, is also recommended.

SEEDLINGS AND CUTTINGS (in boxes or beds)

- Use 100 g **ECLIPSE ST**/100 ℓ water and apply 3 ℓ mixture/m² for seedlings; apply 5 ℓ mixture/m² for cuttings. Rooted Plants (e.g. young citrus)

For pots or containers 20 to 25 cm in diameter:

- Use 250 g **ECLIPSE ST**/100 litres water and apply 250 ml per container. Water in well following application.
- For smaller pots or containers reduce the rate in proportion to the diameter of the container.

In open ground:

- Use 200 g **ECLIPSE ST**/100 litres water and apply 4 ℓ mixture/m² to the soil area in which the roots are distributed. Irrigate after treatment.

Soil treatment of nursery beds (prior to planting):

Apply 4 to 8 g **ECLIPSE ST**/m² and incorporate to a depth of 10 to 20 cm depending on root development. The higher rate is recommended where deep incorporation is necessary or if the soil has a high organic matter content.