



PROPOSED LABEL FOR PLANT PROTECTION PRODUCT Z-10 80 WP FUNGICIDE

- 1. TRADE NAME** : Z-10 80 WP
- 2. COMMON NAME** : Zineb
- 3. MODE OF ACTION** : Fungicide

4. NAME AND PERCENTAGE OF THE ACTIVE INGREDIENT

ZINEB 800 ± 20g/kg

5. USES

Application environment:

The product is suitable for application on field, greenhouse and other environment.

Mode of action and Effects on pests and crops:

Z-10 80 WP is broad spectrum contact fungicide for control of the main groups fungal diseases in many agricultural crops, such as bananas, citrus and tropical fruits, rice, vegetables, ornamental plants and other. **Z-10 80 WP** provides a residual protective film over the plant surface, inhibiting spore germination of the pathogens.

There is not harmful effect on beneficial and other non-target organisms.

The product is toxic to any species of aquatic organisms.

No side effects were observed on succeeding crops, other plants or parts of treated plants used for propagating purposes (e.g. seeds, cuttings, and runners).

6. DIRECTIONS FOR USE

Application method:

Always use a fresh solution when required. The dilution product is suitable for application with all types spraying (air or tractor).

Application time and quantity of applications:

Z-10 80 WP can be used during all the vegetative periods of the crops. It is applied before or after infection, at 10 – 14 day intervals.

Dosage rates:

Rates per hectare vary between 0.2 and 3.0 kg/ha , depending on the target crop and disease.

7. RECOMMENDATIONS ON CROPS/ DISEASE

<i>Culture</i>	<i>Disease</i>	<i>Dosage</i>
Bananas	Leaf Spot (Sigatoka) (<i>Mycosphaerella musicola</i>)	200 g in 100 l water - Apply when weather conditions favour disease outbreak. Repeat treatments in accordance with locally recommended spray schedules. Use sufficient water to ensure good coverage of the treated plants For better results use 3 – 4 l miscible oil per hectare, especially during the rainy season.
	Black Pit, Cordana Leaf Spot, Fruit Speckle, Leaf Speckle	200 g in 100 l water - Apply every two weeks during the wet season. Extend to three weeks after this and then four to five weeks during the drier months returning to three weeks prior to the next wet season.
	Anthracnose (<i>Colletotrichum musae</i>)	200 g in 100 l water - Spray at weekly intervals during flowering and then at two week intervals until near harvest. For better results use 3 – 4 l miscible oil per hectare, especially during the rainy season.

Citrus	Black Spot - Guignardia citricarpa	200 g in 100 l water - Add 250 mL oil per 100 L water. Normal season: Apply 5 applications at 19 to 21 day intervals Wet season: Apply 6 to 7 applications at 19 to 21 day intervals starting at 100 % petal fall.
	Brown Citrus Mite, Citrus Rust Mite, Citrus Bud Mite	200 g in 100 l water - Add 250 mL oil per 100 L water. Apply at first signs for infestation.
Mango	Anthracnose	200 - 300 g in 100 l water. Apply when weather conditions are favorable for the disease development.
Rise	Rice blast	200 - 300 g in 100 l water. Apply when weather conditions are favorable for the disease development.
Potato and Tomato	Early blight (<i>Alternaria solani</i>) Late blight (<i>Phytophthora infestans</i>)	2,0 to 4,0 kg/ha Commence spraying before or just when first symptoms are noticed. Apply every 5 to 10 days depending on weather conditions, which favour the development of the disease. Depending on plant size apply spray mixture at a rate of 300 to 1500 l per ha. Ensure full coverage of both upper and lower leaf surfaces. Dosage rate depends on plant size. Repeat application after more than 13mm rain or overhead irrigation.
Field bean	Rust and Anthracnose	200 g in 100 l water – Apply regularly every 7 to 14 days to keep plant surface protected. Apply up to 1000 l per ha.

Tobacco	Downy mildew and Anthracnose	200 g/100 l water. Commence spraying before or just when first symptoms are noticed. Spray weekly, and ensure full coverage of both upper and lower leaf surfaces.
Onions	Downy mildew	300 g in 100 l water. Start applications when weather conditions are favorable for development of the disease. Apply weekly with up to 1000 l mixture per to ensure complete coverage.
Cabbage crops	Anthracnose and Downy mildew	200 g/100 l water. Start application at first sign of disease and repeat at 7 day intervals. Ensure total coverage of all parts of the plant. Depending on foliar cover apply up to 1500 l mixture per ha.
Cucurbitaceae crops	Anthracnose and Downy mildew	200 g/100 l water. Start application at first sign of disease and repeat at 7 day intervals. Ensure total coverage of all parts of the plant. Depending on foliar cover apply up to 1500 l mixture per ha.
Ornamental plants	Downy mildew, Leaf spots and Rust	200 g/100 l water. Apply every 7 to 14 days depending on weather conditions. Ensure complete coverage.

8. PHYTOTOXICITY

No phytotoxic effects have been observed when crops have been sprayed with the recommended dosages. However, it is advisable to test before spraying as local conditions and climate exert an influence.

9. FIRST AID

Contact with skin

Remove contaminated clothing

Wash affected area with plenty of soap and water

Contact with eyes

Rinse immediately with plenty of clean water, also under eyelids, for at least 15 minutes.

Seek medical attention if irritation persists

Ingestion

Drink 1-2 glasses of water.

Do not induce vomiting without medical advice

Never give anything by mouth to an unconscious person.

Obtain medical attention

Inhalation

Move to fresh air.

Apply oxygen or artificial respiration if needed.

In case of significant exposure seek medical attention

10. ANTIDOTES AND INSTRUCTIONS FOR DOCTORS

Treat by observation and supportive measures as indicated by patient's condition

11. SAFETY PERIOD

Pre-harvest interval:

Beans, Cabbage and Cucurbitaceae crops, Potatoes and Tomatoes - 3 days

Citrus, Onions, Bananas, Mango, Tobacco - 14 days

Re-entry period:

Not required

12. TOXICITY

Acute oral LD₅₀ for rats: > 2000 mg/kg b.w.

Acute dermal LD₅₀ for rats: > 2000 mg/kg b.w.

13. HANDLING PRECAUTIONS

Observe normal handling precautions appropriate to pesticides. Wear protective clothing and personal protective equipment.

14. COMPATIBILITY

Z-10 80 WP is compatible with most other common pesticides and wetting agents or spreader stickers. It should not be used in combination with alkaline products, e.g. Bordeaux mixture or Lime Sulphur. Must not be used with calcium arsenate or urea on citrus.

The product is incompatible with strong basic, acidic or oxidizing products.

15. DEGREE OF TOXICITY

WHO Class III

16. METHOD FOR CLEANING AND DISPOSAL OF THE PRODUCT

Shovel up into covered containers for disposal.

Dispose of according to local/ national regulations.

17. METHOD FOR DESTROYING OF EMPTY CONTAINERS

Dispose of empty containers by incineration according to local/national regulations.

Do not contaminate waterways with waste product or containers.

28. NET WEIGHT

25 ± 0.5 kg