



## INTERNATIONAL LABEL TEXT

All country-specific regulations must be observed.

# FOLIO<sup>®</sup> GOLD<sup>®</sup> 537.5 SC

A-9652 B

**Pack size:**

**Registration Number:**

### Suspension Concentrate

#### Fungicide

Systemic and residual fungicide for the control of downy mildew, late blight and white rust in beans, cole crops, cucurbit vegetables, leek, onions, peas, potatoes, soybeans, sugar beets, and tomatoes.

#### Active Ingredient Content

37.5	g/litre	metalaxyl-M* including S-enantiomer
500	g/litre	chlorothalonil**

\* N-(2,6-dimethylphenyl)-N-(methoxyacetyl)-D-alanine methyl ester (CA)

\*\* 2,4,5,6-tetrachloro-1,3-benzenedicarbonitrile (CA)

#### Physical Properties

Beige to grey suspension.

#### First Aid / Antidote

If any indisposition occurs, call a physician and apply First Aid measures as described on page 4. No specific antidote is known. Apply symptomatic therapy.

#### Hazard Classification

WHO Class III (slightly hazardous)

*Note:* Registration number and pack size must appear on all local labels.  
This ILT serves as a basis for local label texts.

<b>CAUTION</b>										
						Blue				
<p>Irritant to eyes and skin. May cause sensitisation by skin contact. KEEP LOCKED UP OUT OF REACH OF CHILDREN. KEEP AWAY from food, drink and animal feeding stuff. WEAR suitable protective clothing.</p> <p>Telephone Johnson Controls, Basel, Switzerland: +41 61 696 33 33</p>										

## Product Information

### Mode of Action

Folio Gold 537.5 SC has residual and systemic properties.

**Metalaxyl** is a systemic fungicide that provides control of downy mildew, white rust and late blight diseases. It is rapidly taken up by the green plant parts (within 30 minutes), transported upwards in the sap stream and is distributed in the leaves; it provides control of fungi from within the plant, inhibiting fungal growth and reproduction, and protects new growth produced after application.

**Chlorothalonil** is a broad-spectrum protectant fungicide that controls many diseases of vegetables; it provides a protective film over the plant surfaces and inhibits germination of the spores.

By combining these two ingredients, Folio Gold 537.5 SC provides excellent disease control from within the plant as well as externally.

### Spectrum of Activity

Folio Gold 537.5 SC provides effective control of the diseases listed below when used as a foliar application in a preventive disease control programme.

#### Beans (field and broad beans)

Downy mildew (*Peronospora viciae*)

Partial control: Chocolate spot (*Botrytis fabae*)

#### Cole Crops (broccoli, cabbage and cauliflower)

Downy mildew (*Peronospora parasitica*)

White rust (*Albugo candida*)

Partial control: Alternaria leaf spot (*Alternaria brassicae*)

#### Cucurbit vegetables (cucumbers, melons and squash)

Downy mildew (*Pseudoperonospora cubensis*)

Partial control:

Anthraxnose (*Colletotrichum lagenarium*)

Cercospora leaf spot (*Cercospora* spp.)

Gummy stem blight (*Mycosphaerella melonis*)

Leaf blight (*Alternaria cucumerina*)

Scab (*Cladosporium cucumerinum*)

#### Leeks

White tip (*Phytophthora porri*)

#### Onions (dry bulb, seed and green onions)

Downy mildew (*Peronospora destructor*)

Partial control:

Botrytis leaf blight (*Botrytis squamosa*)

Purple blotch (*Alternaria porri*)

#### Peas

Downy mildew (*Peronospora viciae*)

#### Potatoes

Late blight (*Phytophthora infestans*)

Partial control:

Early blight (*Alternaria solani*)

#### Soybeans

Downy mildew (*Peronospora manshurica*)

#### Sugar beets

Downy mildew (*Peronospora shachtii*)

Partial control:

Cercospora leaf spot (*Cercospora beticola*)

#### Tomatoes

Late blight (*Phytophthora infestans*)

Partial control:

Early blight (*Alternaria solani*)

Anthraxnose (*Colletotrichum phomoides*)

Grey leaf spot (*Stemphylium solani*)

Grey leaf mould (*Cladosporium fulvum*)

Septoria leafspot (*Septoria lycopersici*)

Botrytis grey mould (*Botrytis cinerea*)

### Limitations

#### Activity

Folio Gold 537.5 SC should be used strictly according to FRAC guidelines for phenylamide products to maintain long term effectiveness of the product and to minimise the build up of resistant strains.

#### Crop tolerance

When used as recommended Folio Gold CT 537.5 SC can be applied without risk of phytotoxicity.

### Directions for Use

Failure to follow directions on this label may result in crop injury or poor disease control.

#### Beans (field and broad beans)

Apply a maximum of 2 Folio Gold 537.5 SC sprays per season.

**Downy mildew:** Apply at 2 l/ha. Begin applications when conditions are favourable for disease, but before infection, and continue at 10-14 day intervals.

**Chocolate spot:** At the recommended rate for downy mildew control, Folio Gold 537.5 SC will provide partial control of *chocolate spot*. If weather conditions are favourable for development of this disease, and under conditions of severe disease pressure top up Folio Gold 537.5 SC in the spray tank to give the full rate of chlorothalonil and alternate Folio Gold 537.5 SC sprays with other effective registered fungicides every 7 days.

#### Cole crops (broccoli, cabbage and cauliflower)

Apply a maximum of 3 Folio Gold 537.5 SC sprays per season.

**Downy mildew and white rust:** Apply at 2 l/ha. Begin applications when conditions are favourable for disease, but before infection, and continue at 14 day intervals.

**Alternaria leaf spot:** At the recommended rate for downy mildew control, Folio Gold 537.5 SC will provide partial control of *Alternaria leaf spot*. If weather conditions are favourable for development of this disease, and under conditions of severe disease pressure top up Folio Gold 537.5 SC in the spray tank to give the full rate of chlorothalonil and alternate Folio Gold 537.5 SC sprays with other effective registered fungicides every 7 days.

#### Cucurbit vegetables (cucumbers, cantaloupe, melons, pumpkin and squash)

Apply a maximum of 3 Folio Gold 537.5 SC sprays per season.

**Downy mildew:** Apply at 2.5 to 3.4 l/ha. Begin applications when conditions are favourable for disease, but before infection, and continue at 10-14 day intervals.

**Anthraxnose, Cercospora leaf spot, gummy stem blight, leaf blight and scab:** At the recommended rate for downy mildew control, Folio Gold 537.5 SC will provide partial control of these diseases. If weather conditions are favourable for disease development and under conditions of severe disease pressure top up Folio Gold 537.5 SC in the spray tank to give the full rate of chlorothalonil and alternate Folio Gold 537.5 SC sprays with other effective registered fungicides every 7 days.

#### Leeks

Apply a maximum of 3 Folio Gold 537.5 SC sprays per season.

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*White tip:* Apply at 2 l/ha. Begin applications when conditions are favourable for disease, but before infection, and continue at 14-21 day intervals.

### **Onions** (dry bulb, seed and green onions)

Apply a maximum of 3 Folio Gold 537.5 SC sprays per season.

*Downy mildew:* Apply at 2 to 3.4 l/ha. Begin applications when conditions are favourable for disease, but before infection, and continue at 10-14 day intervals. Use a compatible wetting agent or sticker at rates recommended on the product label.

*Botrytis leaf blight* and *purple blotch:* At the recommended rate for downy mildew control, Folio Gold 537.5 SC will provide partial control of these diseases. If weather conditions are favourable for disease development and under conditions of severe disease pressure top up Folio Gold 537.5 SC in the spray tank to give the full rate of chlorothalonil and alternate Folio Gold 537.5 SC sprays with other effective registered fungicides every 7 days.

### **Peas**

Apply a maximum of 2 Folio Gold 537.5 SC sprays per season.

*Downy mildew:* Apply at 2.4 to 3 l/ha. Begin applications when conditions are favourable for disease, but before infection, and continue at 10-14 day intervals.

### **Potatoes**

Apply a maximum of 3 Folio Gold 537.5 SC sprays per season.

*Late blight:* Apply 2 l/ha. Begin applications when conditions are favourable for disease development, but before infection, and continue at 10-14 day intervals.

*Tuber rot and storage rot (Phytophthora and Pythium spp.):* Apply 2 l/ha. Make one application at flowering and another 14 days later. If the field has a history of tuber rot or if threat of foliar infections continues, make a third application 14 days after the second.

*Early blight:* At the recommended rate for late blight control, Folio Gold 537.5 SC will provide partial control of these diseases. If weather conditions are favourable for disease development and under conditions of severe disease pressure top up Folio Gold 537.5 SC in the spray tank to give the full rate of chlorothalonil and alternate Folio Gold 537.5 SC sprays with other effective registered fungicides every 7 days.

### **Soybeans**

Apply a maximum of 3 Folio Gold 537.5 SC sprays per season.

*Downy mildew:* Apply 2.4 l/ha. Begin applications when conditions are favourable for disease, but before infection, and continue at 10-14 day intervals.

### **Sugar beets**

Apply a maximum of 3 Folio Gold 537.5 SC sprays per season.

*Downy mildew:* Apply 2.4 l/ha. Begin applications when conditions are favourable for disease, but before infection, and continue at 10-14 day intervals.

*Cercospora leaf spot:* At the recommended rate for downy mildew control, Folio Gold 537.5 SC will provide partial control of this disease. If weather conditions are favourable for development of this disease, and under conditions of severe disease pressure top up Folio Gold 537.5 SC in the spray tank to give the full rate of chlorothalonil and alternate Folio Gold 537.5 SC sprays with other effective registered fungicides every 7 days.

### **Tomatoes**

Apply a maximum of 4 Folio Gold 537.5 SC sprays per season.

*Late blight* and *fruit rot* caused by *Phytophthora* spp.: Apply at 300 ml/100 l. Begin applications when conditions are favourable for disease, but before infection, and continue at 10 day intervals.

*Early blight, grey leaf spot, grey leaf mould* and *Septoria leaf spot:* At the recommended rate for late blight control, Folio Gold 537.5 SC will provide partial control of these diseases. If weather conditions are favourable for disease development and under conditions of severe disease pressure top up Folio Gold 537.5 SC in the spray tank to give the full rate of chlorothalonil recommended.

Folio Gold 537.5 SC must be applied preventively before outbreak of the disease. Under severe disease conditions the shorter spray intervals are recommended. When active foliar growth has ceased change over to contact fungicide with different mode of action, within 7-10 days of the last Folio Gold 537.5 SC application.

### *Waiting period*

Recommended preharvest intervals: melons and tomatoes: 3 days, potatoes: 7 days, beans, cole crops, cucumbers, leeks and onions: 14 days, peas: 21 days.

## **Application Information**

### **Application technique / parameters**

Use sufficient water to obtain thorough coverage of the foliage but avoid excessive run-off. The indicated rates per 100 l refer to a spray to the point of run-off. If less water is used concentrate the spray mixture accordingly.

Volumes of spray liquid per ha under average conditions:

Potatoes	200-1000 l
Tomatoes, Vegetables	400-1500 l

### **Mixing**

#### *Preparation of the spray liquid*

Quarter fill the tank with water and add the proper amount of Folio Gold 537.5 SC; then add more water to the required volume. Provide sufficient agitation during mixing and application to maintain a uniform suspension.

### **Compatibility**

Compatible with most fungicides, insecticides, acaricides and nutritional products used in the listed crops. However, it is recommended that the user makes a preliminary test with the planned mixture to observe the physical aspects of the spray and the reaction it produces on the crop during the days following the test.

## **Safety Aspects**

### **Precautionary measures**

KEEP LOCKED UP OUT OF REACH OF CHILDREN and other, unauthorised persons, and animals.

### **Operator safety**

AVOID any contact of skin, eyes or clothing with concentrate or spray mixture. DO NOT breathe spray mist. DO NOT eat, drink or smoke while handling the product, wash hands and face before doing so. If any indisposition occurs, stop work, follow first aid measures, and call a physician.

WEAR protective clothing, i.e. for preparation: impermeable gloves, solid footwear, overalls and eye/face protection, for application: overalls, hat or cap, and solid footwear. IF CONTAMINATION OCCURS with concentrate or spray mixture, immediately wash skin thoroughly, flush eyes several times with abundant fresh water, remove contaminated clothing. AFTER USE, thoroughly clean protective equipment and wash entire body and change clothing. Wash contaminated clothing before re-use.

Re-entry interval: DO NOT enter treated areas for twenty-four (24) hours unless protective clothing is worn.

### **First Aid**

If poisoning is suspected, stop work immediately and call a physician. Show label to the physician. In case of contact with skin, remove contaminated clothing, wash the affected body parts immediately with plenty of water and soap. Rinse splashes from eyes with abundant fresh and clean water for several minutes. If inhaled move to clean air. If swallowed, repeatedly administer medicinal charcoal in plenty of water. Seek medical advice if large volume of concentrate was ingested.

Note: Never give anything by mouth to an unconscious patient and do not induce vomiting.

### **Environment and wildlife**

Very toxic to aquatic organisms. Do not contaminate water used for irrigation or domestic purposes or water areas, such as flowing or stagnant waters, drainage systems by disposal of product wastes or by spray drift. Keep all livestock out of areas to be treated. Do not contaminate food or feed.

### **Spillage and leakage**

Remove heavily contaminated soil layer and bury in a safe place away from water supplies. Collect up spilt material thoroughly and bury it in a safe place or put it in a waste bin or in a plastic bag and dispose of on a landfill-site approved for pesticides. Rinse spill area with plenty of water.

Note: Spilt product must not be re-used.

### **Product and container disposal**

Provided there are no legal or other rules and regulations, the following procedure is recommended: Dispose of surplus product on a landfill site approved for pesticides or bury in a safe place away from water supplies. Dilute surplus application mixture, pour it broadcast on fallow land. Empty the container well, rinse several times and add the rinse solution to the spray tank. Dispose of containers made of cardboard, paper or plastic on a landfill site or burn in a safe place. If burned stay out of the smoke. Be sure that the smoke or fumes will not damage nearby plants, crops or trees. DO NOT re-use empty containers for any other purpose.

Note: ALWAYS comply with local legal requirements.

### **Storage conditions**

Store away from sun and damp, in a well ventilated area apart from food and feed, under lock and key. DO NOT contaminate water, food or feed. AVOID storage above +35°C.

DO NOT stack containers in piles more than 2 m high, in order to avoid product compaction.

### **Shelf-life**

(The shelf life is:

for temperate climates: at least 2 years

for hot climates: at least 2 years

According to the *FAO Guidelines on Good Labelling Practice*, if the shelf life as registered under local conditions is 2 years or more, no information on the label is required, unless explicitly requested by the local Registration Authorities; if the shelf life is less than 2 years, then information on storage stability must appear on the label, e.g.:)

"at least ..... years from date of manufacturing, in unopened containers."

or

"best use before ..... (date)."

### **Legal Aspects**

Before applying the product read the attached package leaflet.

### **User's risk**

The user bears the risk for damage resulting from factors beyond the manufacturer's control.

Resistant strains of fungal diseases may develop or may exist against which fungicides may not be effective resulting in crop loss. Since the occurrence of such strains cannot be forecast, neither the manufacturer nor its distributors can accept responsibility for any loss or damage caused by failure of fungicides to control resistant strains.

All recommendations for use of the product are based on the current state of the manufacturer's knowledge. Since the manufacturer cannot control the application, use, storage or processing of the product, the manufacturer cannot accept responsibility therefor.

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Syngenta Crop Protection AG, Basel, Switzerland

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