

# Dash Combi



**Dash Combi** is a suspension concentrate fungicide, with protective and curative properties, for the control of fungal diseases on crops as listed.

## Active Ingredients

**Chlorothalonil 250 g/L +  
Carbendazim 250 g/L**

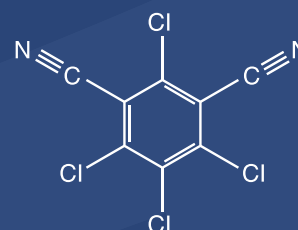
## Mode of Action

- **Dash combi** combines 2 active ingredients, Chlorothalonil and Carbendazim, with different modes of action to maximize efficacy and reduce resistance risk.
- Broad spectrum activity against a wide variety of commercially damaging fungal diseases.
- **Dash combi** has both systemic and contact activity, with protective and curative action.
- Favorable SC formulation- liquid, easy to mix and convenient to handle and store.

## Characteristics

- IPM compatible and relatively safe to most pollinators.
- Prime choice for disease resistance management programs due to active ingredients with different and complimentary modes of action.
- Suitable for use on a variety of common crops.
- Can be used several times during the season.

## Chlorothalonil

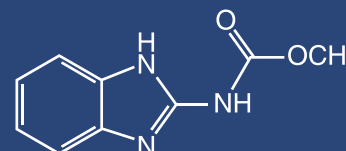


**Chlorothalonil** is a broad spectrum fungicide belonging to FRAC group M05: Chemicals with multi-site contact activity. **Chlorothalonil** is the only active in this group, which makes it ideal for crop rotation during the season with other fungicides.

**Chlorothalonil** is a non-systemic fungicide that has also some activity as a bactericide, microbiocide, algacide, insecticide, and acaricide.

**Chlorothalonil** binds sulfur-containing amino acids such as glutathione, reducing its amount and deactivating it, resulting in further disruption of several enzymatic cell mechanisms.

## Carbendazim



**Carbendazim** is a systemic fungicide belonging to FRAC group B1: Cytoskeleton and motor proteins ( $\beta$ -tubulin assembly in mitosis).

**Carbendazim** is a synthetic substance with broad spectrum, protective and curative activity. Acts through inhibition of mitosis and cell division in fungi.

## Directions for Use

**Dash Combi** should be mixed with water to be ready for use and can be applied with any type of spraying equipment.

Spray **Dash Combi** preventively or in the early stages of the disease development, before visual symptoms appear. Ensure full coverage of the plant canopy with the spraying mixture to achieve maximal efficiency.

Delay spraying if rain is expected within next few hours or under conditions which favor runoff or wind erosion of soil containing this product to non-target areas.

Do not make more than 3 applications per season and always alternate with fungicides of different mode of action to prevent resistance development.

## Application Rate

Crop	Disease	Rate
Potatoes	Late Blight ( <i>Phytophthora infestans</i> ), Early blight ( <i>Alternaria solani</i> )	0.8 – 1.2 L/ha
Tomatoes, Cucurbits, Onions	Downy Mildew ( <i>Pseudoperonospra</i> sp.), Anthracnose ( <i>Colletotrichum</i> sp.), Late Blight ( <i>Phytophthora infestans</i> ), Early blight ( <i>Alternaria solani</i> ), Botrytis	0.7 – 1.0 L/ha
Beans	Rust ( <i>Uromyces</i> sp.)	0.7 – 1.0 L/ha
Ornamentals	Black spot ( <i>Actinonema</i> sp.)	0.8 – 1.2 L/ha

### Application Notes:

- Avoid application when crops are under stress as a result of drought, low temperature, waterlogged soil, insect attack, nutrient deficiency or other factors negatively affecting crop growth as this may cause a phytotoxic response.
- Repeat application at 7-10 day intervals depending on environmental conditions and disease pressure.
- Apply as a full cover spray in 500 – 1,000 L water, depending on crop size.

### Important Note:

The indicated crops and recommended rate of application mentioned in this Product informative sheet may not be applicable in the country where the product is intended to be used. User must refer and use the product only as per the official registration at the country of use and the approved uses and rates by the authorized authorities. The supplier will not be responsible or liable if the product is used on crops which are not listed on the official label as approved the ministry of agriculture at the country of use.

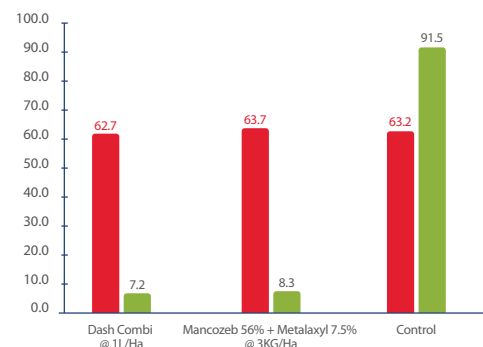
## Field Trials

**Overview:** Field trial to test the efficacy of different rates of Dash Combi against Early blight (*Alternaria solani*) in tomatoes.

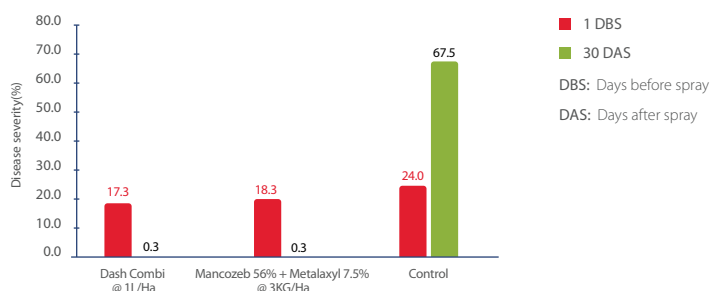
**Location:** Ethiopia, 2020  
**Crop:** Tomato

**Target pest:** Early blight (*Alternaria solani*)  
**Water volume:** 1,000 L/ha

### The effect of treatments on disease incidence



### The effect of treatments on early blight severity in tomatoes



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