



# CURATIO<sup>®</sup>

For curative scab control in organic and integrated apple production –  
biological fungicide with vital importance for organic fruit growing

# CURATIO®

Active ingredient: 380 g/l Calcium polysulphide (Lime sulphur)

CURATIO® is used for controlling fungal diseases like scab and powdery mildew in pome fruits, with excellent side effects against sooty blotch.

Particularly in years with heavy rainfalls and continuing leaf wetness duration, fungal diseases including apple scab (*Venturia inaequalis*) can develop to a level where they threaten economic viability. Contact fungicides lose their effectiveness as their contact layer is washed off during rain. Therefore, the use of a curative fungicide is essential. CURATIO® with its unique mode of action is the only curative fungicide in organic fruit production which is able to protect apples during long-lasting rainfalls.

- ✓ Curative apple scab control
- ✓ Residue-free
- ✓ No risk of resistance





### Mode of action

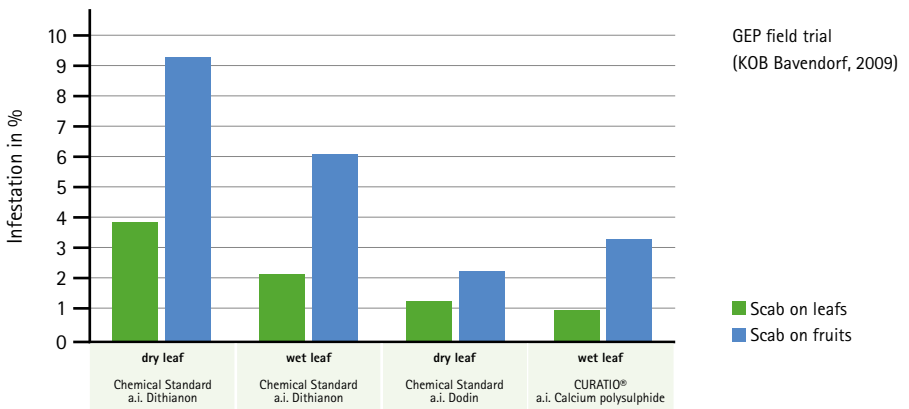
The alkaline reaction of CURATIO® causes the hydrolysis of lipids in fungal cells and thus facilitates a better permeation through the cell wall. In the cell the active ingredient impedes the normal metabolism and interferes with the citric acid cycle. This effect is caused not only by the active ingredient, but also by its metabolite elemental sulphur which is a well-known and effective fungicide.



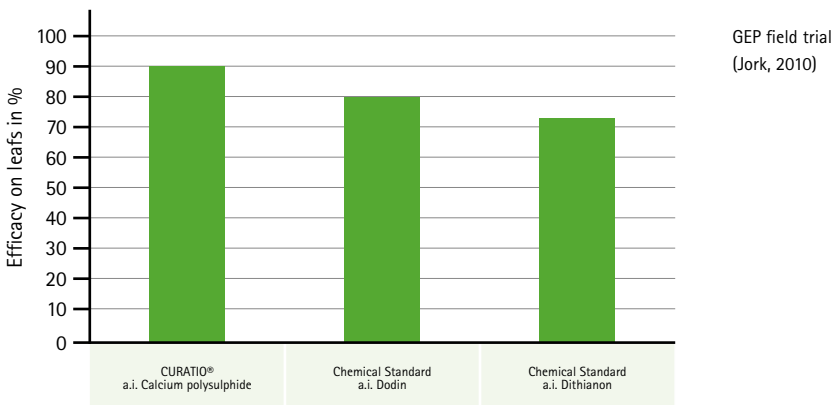
# CURATIO® – Curative Treatment

CURATIO® is applied as a stop treatment into the germinating window of primary apple scab infection. For this purpose CURATIO® should be applied onto the wet leaf up to 300 °h (degree hours; base 0 °C) after beginning of rainfall and start of infection. After drying CURATIO® generates a protective layer of elemental sulphur.

## Infestation rate of apple scab



## Efficacy of different plant protection products against apple scab



# CURATIO® – Application

## Application details pome fruit (scab)

- pre-flowering: 8 l/ha and m crown height<sup>1</sup>
- during and after flowering: 4 – 6 l/ha and m crown height<sup>1</sup> for secondary phase of infections

Furthermore CURATIO® has an excellent side effect on sooty blotch in pip fruits which has a serious influence on the outer fruit quality of apples and pears. In addition, CURATIO® has a good side effect on the new leaf disease *Marssonina coronaria*, which has occurred in Germany, Switzerland and Austria since 2010.

The main focus is not only the control of scab in pome fruits, CURATIO® is also able to cover a broad range of indications, which is especially relevant for Southern Europe.



Crop/situation	Pest disease
Apples/pears	Apple scab ( <i>Venturia inaequalis</i> ) Pear scab ( <i>Venturia pyrina</i> ) Powdery mildew ( <i>Podosphaera leucotricha</i> )
Grapes/vines	Powdery mildew ( <i>Uncinula necator</i> )
Peaches, plums, apricots, cherries	<i>Monilia</i> spp. Leaf-curl ( <i>Taphrina deformans</i> and <i>T. pruni</i> ) Shot-hole ( <i>Stigmina carpophila</i> , <i>Clasterosporium carpophilum</i> , <i>Phoma prunorum</i> ) Powdery mildew ( <i>Podosphaera tridactyla</i> , <i>Sphaerotheca pannosa persicae</i> )
Fruit bearing trees and vine nurseries	<i>Monilia</i> spp. Leaf-curl ( <i>Taphrina deformans</i> and <i>T. pruni</i> ) shot-hole ( <i>S. carpophila</i> and <i>C. carpophilum</i> ) Powdery mildew ( <i>U. necator</i> , <i>P. tridactyla</i> and <i>S. pannosa persicae</i> )

<sup>1</sup> Crown height is a dosage unit which is especially used in Germany and Austria. Normally a standard fruit orchard has a crown height of 2 meters.

# Contact

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Michael Czöppan

- Export Sales & Marketing
- Business Development



+49 7381 / 9354-17



[czoeppan@biofa-profi.de](mailto:czoeppan@biofa-profi.de)

Rana Khalil

- Export
- Regulatory Affairs



+49 7381 / 9354-18



[khalil@biofa-profi.de](mailto:khalil@biofa-profi.de)



**Biofa AG**  
**Rudolf-Diesel-Straße 2**  
**D-72525 Münsingen**