



# INFINITO®

## Quality crop protection

### Mode of action

- // Fluopicolide disrupts the pathogen's cell structure, especially the production spectria, a form of protein, which plays a vital role in the stability of the pathogen's cytoskeleton.
- // This unique mode of action is very effective against all phases of the pathogen's development. Once the zoospores come into contact with the fuopicolide, they stop moving, swell and burst within seconds.
- // No further development of the pathogen is possible after this. Propamocarb HCl impairs permeability of the cell's membranes and the formulation of certain fatty acids in the fungus.

### Destroys the source of infection

The key to optimal yield and quality is protection of the leaves and stems. When the disease is controlled, spores can't be produced and tuber infection with late blight will be limited. Sporangia and zoospores that get washed from infected leaves is the main source for tuber infection in potatoes. This needs to be prevented. **Infinito®** is an excellent protector of the leaves and is a strong anti-sporulant. It also contains all the characteristics to effectively control late blight. It provides:

- // Leaf, stem, and tuber protection;
- // Strong translaminar, anti-sporulant and systemic effect;
- // Activity against all phases of the pathogen's life cycle;
- // Good coverage, fast and long lasting action;
- // Rain fastness and efficiency under all climatic conditions;
- // Resistance management tool;
- // Favourable environmental and toxicological profile;
- // Excellent crop safety;
- // Low dose rates; and
- // Liquid formulation is easy to use.

### Infinito® provides:

- // Built-in resistance management;
- // Excellent coverage;
- // Fast uptake; and
- // Long lasting action

### The effect on our environment

We strive to protect our natural environment and this goes hand in hand with Bayer's philosophy of Science for a Better Life. Thus, **Infinito®** proved a low risk to operators, mammals and the environment. Propamocarb HCl is well known in South Africa and therefore only the characteristics of fluopicolide will be shown below.

#### Chemical and physical characteristics

ISO name:	Fluopicolide
Chemical group:	Acylpicolide
Water solubility:	2.8 mg / ℓ by 20°C (pH7)
Sunlight stability:	Stable
Hydrolytic stability:	Stable at pH 4 - 9

#### Toxicology for mammals

Acute oral (rat):	LD <sub>50</sub>	> 5000 mg / kg
Acute dermal (rat):	LD <sub>50</sub>	> 5000 mg / kg
Eye and skin irritation:	No irritation	
Carcinogenic (rat & mouse):	None	

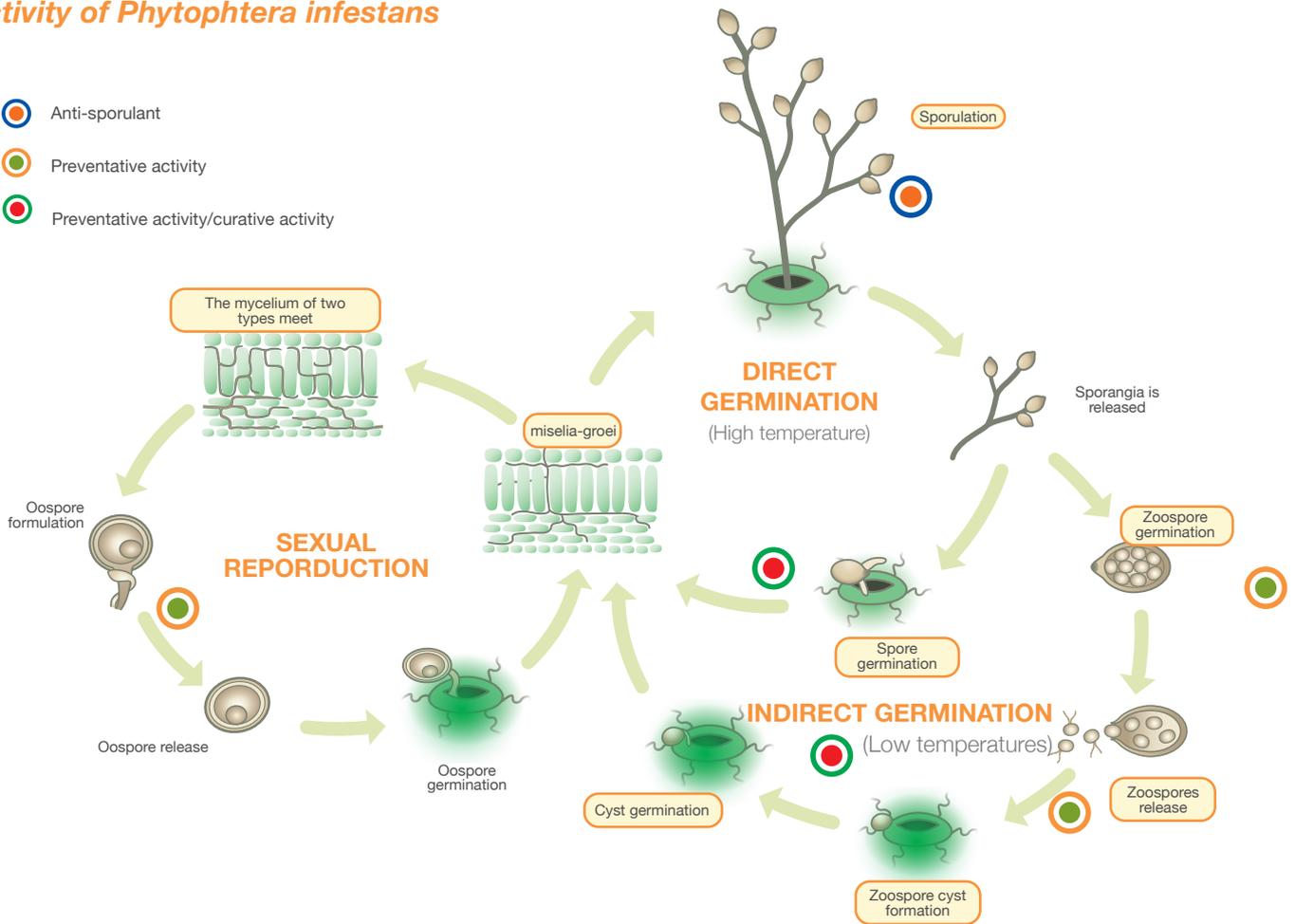
#### Toxicology in the environment

Birds (ducks and quail):	acute oral LD <sub>50</sub>	> 2250 mg / kg
Common Carp:	acute (96 hour) LC <sub>50</sub>	1.3 mg / ℓ
Earthworms:	acute (14 dae) LC <sub>50</sub>	> 1000 mg / kg ground
Honey bee:	Contact, LD <sub>50</sub>	> 100 µg / bee

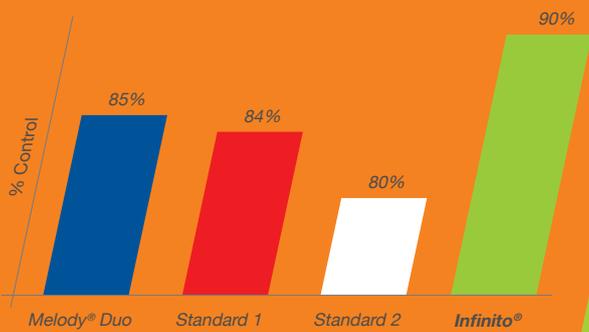


## Activity of *Phytophthora infestans*

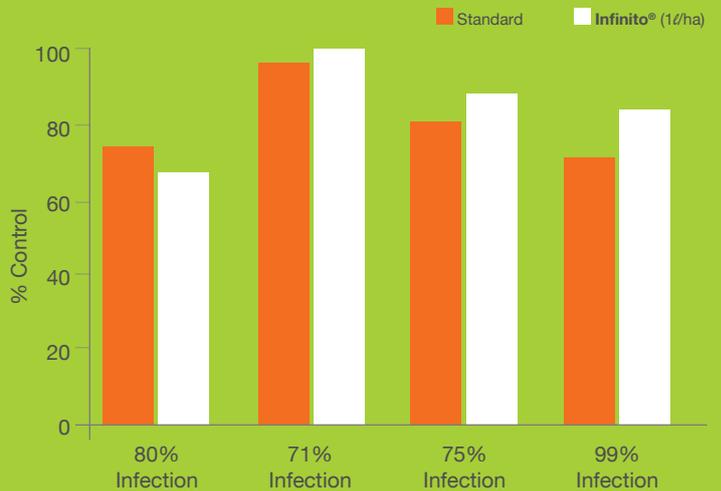
-  Anti-sporulant
-  Preventative activity
-  Preventative activity/curative activity



### Average percentage control of *Phytophthora infestans* on tomatoes measured over seven trials



### Late blight control with Infinito®



Infinito® Reg. No. L8470 (Act No. 36 of 1947). Infinito® contains Fluopicolide and Propamokarb HCL (Caution). Infinito® is a registered trademark of Bayer AG, Germany. Use strictly according to instructions on label.

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