

# Hydro Cop



A COPPER HYDROXIDE CONTAINING  
SUSPENSION CONCENTRATE CONTACT  
FUNGICIDE AND BACTERICIDE

A COPPER FUNGICIDE THAT  
OUTPERFORM THE NORM





## ① A COPPER FUNGICIDE THAT OUTPERFORM THE NORM

**Hydro Cop** is an extremely effective broad spectrum flowable contact fungicide and bactericide which releases copper ions at a constant rate for effective disease control. The ultra fine particles in **Hydro Cop** allows for superior suspendability and an increased surface coverage and adhesion of the copper particles. **Hydro Cop's** effectiveness is the direct result of proprietary manufacturing process that result in a formulation that outperform the norm.

## ② THE ADVANTAGES OF ROYAL BLUE

- Concentrated flowable formulation
- Superior crop safety
- Ultra fine particle size
- Superior surface area coverage
- Superior adhesion
- Excellent compatibility
- Excellent suspendability

## ③ SIZE MATTERS

**Contact fungicides are designed to cover the surface of the treated area without being taken up into the plant tissue. The efficacy of contact fungicides can be considerably improved by the correct particle size of the active ingredient.**

- The smaller the particle size the greater the number of particles per gram product and therefore the greater the fungicidal or bacterial activity,
- Smaller particles lead to improved surface coverage and significantly more active ingredient per area to release copper ions,
- The smaller the particles the greater the biological effectiveness and bio-available copper and the better the disease control,
- The smaller the individual particles, the higher the tenacity or inherent sticking ability of the product.

The average particle size of **Hydro Cop** is just over 1 micron, which is ideal for effective disease control without possible phytotoxicity. Copper fungicides with particles smaller than 1 micron can be taken up by the leaf and cause phytotoxicity to crops.



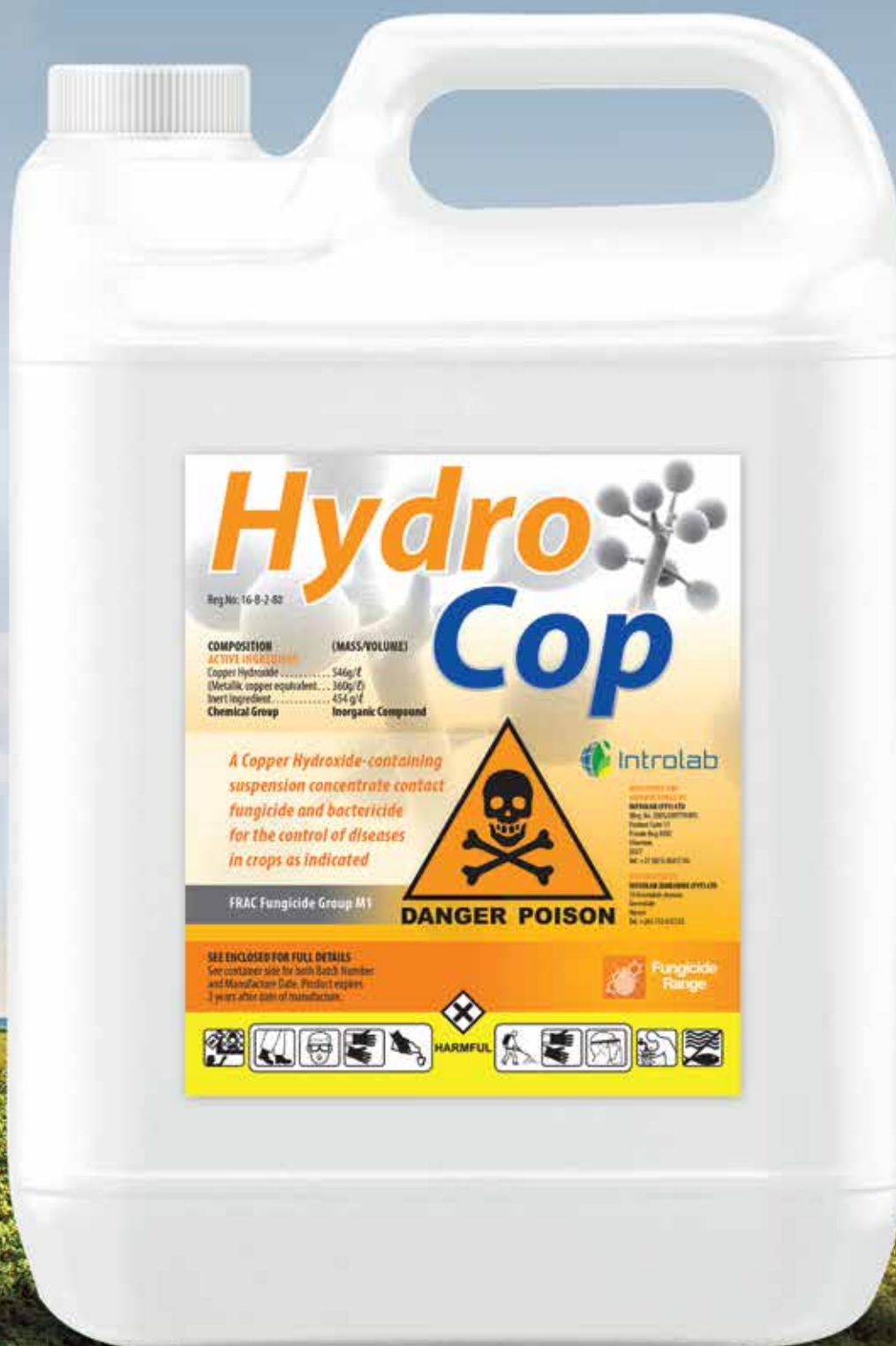
## 4 ACTIVE INGREDIENT IN HYDRO COP

Copper Hydroxide

538 g/Lt







Metallic Copper equivalent

350 g/Lt





## 5 LEARN HOW HYDRO COP WORKS

-  **Hydro Cop** is a Copper Hydroxide containing contact fungicide that must be applied to the plant or fruit surface before the disease develops, to prevent infection,
-  Copper is most effective on those diseases that need free water present to develop,
-  On the plant surface, when there is moisture present (from rain, dew or irrigation) exudates from the plant surface form weak acids, which lowers the pH of the surface area,
-  The solubility of copper products increases as the pH drops, slowly dissolving to release a small and constant supply of copper ions,
-  Copper ions have a multi-site mode of action and a broad spectrum of disease organisms that are controlled or the development thereof suppressed,
-  The coverage and protection of copper on the plant surface weathers away due to the new growth of the plant and the weather conditions, hence the importance of re-applications to obtain effective control



# HOW IS THE EFFICACY OF HYDRO COP ACHIEVED?

→ The efficacy of **Hydro Cop** is based on different key factors that all contribute to effective disease control.

→ These features make **Hydro Cop** the high performance alternative to conventional copper fungicides.





## DAMAGE BY COPPER FUNGICIDE APPLICATION CAN BE AVOIDED BY:



Not applying the product at low water pH levels or in combination with products that will lower the water pH,



Not applying the product in combination with citric acid or amino acid containing products,



Not applying citric acid or amino acid containing products directly after copper fungicide applications,



Not applying high rates during midsummer,



Not applying 3-4 successive applications at high rates,



Not applying to wet fruit

# HYDRO COP IS EFFECTIVE AGAINST THE FOLLOWING DISEASES:



CROP	DISEASE
Avocados	Fruit spot ( <i>Pseudocercospora perpurea</i> )
Beans	Halo blight ( <i>Pseudomonas phaseolicola</i> ) Common blight ( <i>Xanthomonas phaseoli</i> )
Citrus	Black spot ( <i>Guinardia citricarpa</i> ) Alternaria spot ( <i>Alternaria citri</i> )
Crucifereare	Bacterial spot ( <i>Pseudomonas maculicola</i> ) Downy mildew ( <i>Peronospora parasitica</i> )
Coffee	Rust ( <i>Hemileia vastatrix</i> )
Grapes	Downy mildew ( <i>Plasmopara viticola</i> )
Lettuce	Leafspot ( <i>Pseudomonas cichorii</i> , <i>Septoria lacucae</i> )
Mangoes	Bacterial spot ( <i>Pseudomonas mangiferae indicae</i> )
Onions	Downy mildew ( <i>Peronospora destructor</i> )
Ornamentals	Black spot ( <i>Actinonema rosae</i> ) Rust ( <i>Uromyces spp.</i> ) Downy mildew ( <i>Peronospora spp.</i> ) Leaf spot ( <i>Alternaria spp.</i> )
Peaches and Nectarines	Leaf curl ( <i>Taphrina deformans</i> )
Potatoes	Early blight ( <i>Alternaria solani</i> ) Late blight ( <i>Phytophthora infestans</i> )
Seedlings	Damping Off and other Soil Fungi
Tomatoes	Early blight ( <i>Alternaria solani</i> ) Bacterial spot ( <i>Xanthomonas vesicatoria</i> ) Bacterial speck ( <i>Pseudomonas tomato</i> )

- Refer to the product label for complete information
- Not to be used for any purpose, or in any manner, contrary to the label instructions
- Adhere to the withholding periods



# Hydro Cop



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