



# Systemic Bactericide & Fungicide

## The key benefits include

- Broad spectrum fungal and bacterial disease control
- Immediate plant uptake: copper absorbed into plant within 3 hours
- Systemic: inside out protection for up to 21 days
- Rain Proof after drying – won't wash off
- Preventive & curative for root and foliar diseases
- Low risk of phytotoxicity (when used as directed)
- Low dose use rates – reducing bioaccumulation in the soils
- Added benefit of copper nutrition
- No visible residue on treated crops



## A true systemic copper formulation for use on agricultural crops

INSTILL is a broad-spectrum systemic bactericide + fungicide labeled for use on fruits, vegetables, and herbs. Its patented chemistry speeds absorption into plants, enabling its active ingredient to move into and throughout the plant and be retained in the bio-system for up to 21 days. The INSTILL formulation is a solution (not a suspension) that leaves no visible residue.

## The systemic difference

INSTILL is copper sulfate pentahydrate which is double chelated, allowing the copper to safely cross the plant membrane and enter the tissue and vascular system. The second benefit is a mordant effect, which draws the pathogen to the copper ions for higher efficacy. INSTILLs' formulation is acidic, and the ideal spray solution pH at application is 5.5 – 6.5. The lower pH creates an osmotic pull from the plant to draw the copper into the treated tissue. It is considered a chemotherapeutic composition for the control of plant diseases caused by mycoplasma-like organisms and works quite differently than other low dose or metallic coppers.

## More effective protection that won't wash off

Unlike other low dose coppers, INSTILL absorbs into the plant tissue (cuticle) and trans-locates within the plant. The result is that the copper will not wash off, providing a protective inside out barrier for superior disease prevention & control. The second benefit is the systemic mobility provided with INSTILL, allowing the copper to mobilize to protect the entire plant including new tissue.

## Superior crop safety

The rapid absorption of INSTILL into the treated plant results in less wet time for potential copper ion damage. Secondly, since there is no residual copper on the plant surface the risk of copper ions re-activation is eliminated.

## Tank-mix flexible

INSTILL is applied with a lower pH (5.5 – 6.5) spray solution and is compatible with many pesticides, reducing the need for a copper-only cover spray, saving time during critical disease periods.

## Growing season copper fungicide

INSTILL offers features that make it the perfect in-season copper fungicide solution. The low dose applications, high efficacy towards tough diseases and no visual residue opens up a new effective option up to the time of harvest.

## Reduce copper loading of soils

The standard 30-ounce rate of INSTILL contains 0.129 pounds of metallic copper, which is 7-10 times lower than standard copper fungicides, while providing the same or superior disease control.

## Convenience of low use rates

INSTILL is a true low dose copper, and this is reflected in the use rates. The typical use rate is 10–40 ounces per acre, which is 3-4 times lower than competing "low dose" copper fungicides.

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[www.sym-agro.com](http://www.sym-agro.com)

541-607-5097 [Info@Sym-Agro.com](mailto:Info@Sym-Agro.com)

0 Day PHI      48 Hour REI  
Exempt From Food Tolerance