

# SYNBIONT™

## CROP ENHANCER

Another fine product by :

**EQ<sup>Ag</sup> Solutions**  
EASY-TO-USE

*"Providing innovative solutions from Field to Fork"*



ONCE IN A WHILE... a product comes along that changes everything we do. **SYNBIONT CROP ENHANCER**

- Food grade, readily biodegradable, and environmentally friendly.
- Designed to work with your current spray program, and compatible with most crop chemicals.
- Proven to dramatically increase the activity and effectiveness of agricultural fungicides, herbicides and insecticides.
- Extensively tested and shown to be a powerful tool in the struggle against crop disease, helps reduce post harvest decay, and helps reach sanitizing goals.
- No re-entry or pre-harvest restrictions! Complies with 40 CFR 180.910 (EPA), 40 CFR 180.920 (EPA), 40 CFR 180.940 (EPA), 21 CFR 173.315 (FDA)



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## CROP ENHANCER

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### Crop Enhancer

Synbiont Crop Enhancer is based on synergistic combination of powerful anionic surfactants that provide superior surface and penetration activity to dramatically improve and enhance fungicides and insecticides that are commonly used in fruit and vegetable production.

#### **A powerful part of your spray mixture...**

Field trials have shown that Synbiont Crop Enhancer, incorporated in a comprehensive spray program dramatically enhances the effectiveness of fungicides and bactericides used to treat common crop diseases such as but not limited to: Downey & Powdery Mildews on cucurbits, Bacterial Spec, Spot, and canker of Tomatoes, Botrytis, Citrus Canker, Blights, and other bacterial and fungal diseases of several vegetable and fruit crops.

#### **Super charge pesticides...**

In addition to its powerful action on bacterial and fungal diseases Synbiont Crop Enhancer super charges insecticides! It not only aids in coverage of the insecticide with its wetting and penetrating properties, but also helps break down the waxy coating on the bodies of some hard bodied insects allowing the insecticide to penetrate their outer shells, and effects the spiracle of soft skinned insects allowing the insecticide to more easily enter the vascular system of the pest accelerating death of the target pest. White flies, aphids, thrip, leaf minor and egg laying insects (adult or nymph stage).

#### **Wetting and spreading...**

Synbiont Crop Enhancer is an excellent wetting agent which provides better coverage with reduced runoff as it reduces the surface tension allowing the spray mixture to spread evenly over the leaves and foliage. Synbiont Crop Enhancer has been designed for fast spreading, uniform distribution penetration, and absorption on all surfaces. This helps in the action of pesticides as well as herbicides where total foliar coverage is key to achieving the best possible desired effects.

#### **Compatibility...**

This product is shown to be compatible with most common vegetable chemical products. However, some field trials have shown some mild foliar burn in tomatoes when used in conjunction with systemic fungicides at the maximum rate that contain mefenoxam (Ridomil, Apron, Subdue etc...). Labels of products to be tank mixed with Synbiont Crop Enhancer should be read for product incompatibility with anionic surfactants.

#### **Chemistry...**

The structure of Synbiont Crop Enhancer incorporates advanced surfactant technology and a proprietary blend of surfactants that have a unique, active synergy. These surfactants were selected because of their high water solubility, compatibility with other chemicals, and activity at low concentrations.

#### **Re-entry...**

Synbiont Crop Enhancer complies with EPA CFR 40 180.91 and FDA CFR 21 173.315 so there is no re-entry or pre-harvest restrictions. Synbiont can be used right up to harvest to help in the sanitation process, and help produce cleaner fruit right from the field.

# SYNBIONT™

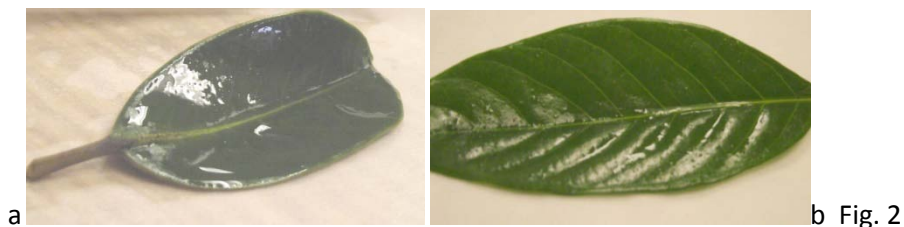
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EASY-QUICK

*“Providing innovative solutions from Field to Fork”*

For years surfactants have been used in agriculture. Most surfactants were used because of their ability to reduce the surface tension of water, thus allowing the desired chemicals to spread evenly over the foliage of plants instead of beading up and running off. Notice in this demonstration below how the leaf sprayed with only water (Fig.1 a & b) has a tendency to bead up and run off, while the leaf treated with Synbiont Crop Enhancer (Fig.2 a&b) has spread evenly and had more of a tendency to adhere to the leaf rather than running off.



Synbiont Crop Enhancer not only has excellent wetting properties, but does so much more; Its advanced surfactant technology incorporates a synergistic blend of powerful anionic surfactants that together dramatically enhance fungicides and pesticides used in fruit and vegetable crops. Incorporate Synbiont Crop Enhancer in your weekly chemical application and see the difference for yourself. Synbiont Crop Enhancer has been extensively tested both in the laboratory and in field trials. It has been observed that weekly use of Synbiont Crop Enhancer with a comprehensive spray program greatly reduced the incidences of diseases such as but not limited to :

- ✓ On tomatoes: Bacterial spot spec, and canker, late and early blights, and enhances pesticides that are used to control pests.
- ✓ On cucurbits such as squashes, cucumbers, and melons: downy mildew, powdery mildew, and angular leaf spot.
- ✓ On strawberries: Botrytis, powdery mildew, and angular leaf spot.
- ✓ On citrus: citrus canker, and enhances the pesticides that are used for brown citrus aphid and other pests.
- ✓ Pre harvest use has been laboratory shown to help reduce post-harvest diseases.
- ✓ Helps achieve sanitization goals by having cleaner fruit and creating a synergistic reaction to reduce fungi, bacteria, and human pathogens.

The list goes on, but don't take our word for it. Speak to an EQ Ag Representative. An EQ Ag expert is always available for questions, concerns, or to help you formulate a plan that works for your particular farm no matter how large or small. We have over 40 years experience in the agriculture industry, not as salesmen but as growers ourselves, and our reputation is your satisfaction with our product.



## CROP ENHANCER

**Enhancer    Penetrator    Wetting Agent**

MAINTENANCE RATES :( normal spray routine):

For use with fungicides and insecticides: use 24 oz. of product per 100 gallons of water (1:500.) with a weather sticker to dramatically enhance the effectiveness the antimicrobial/antifungal action of fungicides, bactericides and insecticides that maintain control of foliar diseases and insects that can threaten crops such as:

\*Whitefly/ Aphids

\*Bacteria speck/ Spot

\*Blights

\*Botrytis

\*Fungal Diseases

OUTBREAK CONTROL: (after harsh weather or when an outbreak occurs.):

A maximum rate of 50 oz. to 100 gallons of water (1: 250) is recommended during times of disease to enhance products that control Blights, Fungal and bacterial diseases. Use of a weather sticker is recommended if the possibility of rain, dew, or overhead irrigation.

CITRUS OR LOW VOLUME SPRAYERS: For Citrus or low volume spraying with products that control canker a rate of 1:100 may be used. However, a controlled mix test is recommended prior to large batch use.

WITH HERBICIDES: 24 oz. of product per 100 gallons of water (1:500)

PRE HARVEST: This product has been laboratory tested and proven to dramatically increase the effectiveness of sanitizing agents. In unofficial field trials, a pre-harvest application of Synbiont Crop Enhancer has shown to be very beneficial in helping control post-harvest diseases. Synbiont may also be applied alone to significantly decrease drying time followed by a preventative spraying after harvest to maintain normal spray program parameters. After rains or heavy dew a rate of 50 oz. per 100 gallons of water may be used(1:250L).

COMPATABILITY: This product is shown to be compatible with common vegetable chemicals. However some field trials have shown some foliar burn in tomatoes when used in conjunction with systemic fungicides at the maximum rate that contain mefenoxam (Ridomil, Apron, Subdue etc...). Labels of products to be tank mixed with Synbiont Crop Enhancer should be read for product incompatibility with anionic surfactants.

An EQ Ag expert is always available for questions, concerns, or to help you formulate a plan that works for your particular farm no matter how large or small. We have over 40 years experience in the agriculture industry and our reputation is your satisfaction with our product.

**This product is food grade, biodegradable, and environmentally friendly. There are no re-entry provisions.**

**Use of a weather sticker is recommended with this product. As always follow Fungicide/Pesticide/ herbicide labels carefully. Due to the foaming nature of this product be should be added last to the mixing tank. Food grade anti-foaming agent is available from EQ Ag Solutions if needed.**

**For questions or comments Call: 1888-641-7218 or 813-695-9188**