



# PureCrop1 Product Information

## Product Description

### General

PureCrop1 uses nanotechnology and colloidal chemistry to eliminate pests, molds, and mildews, increase plant health, and more effectively deliver nutrients than water alone. One solution derived entirely from seven natural plant-based ingredients that does it all - an insecticide, fungicide and surfactant.

While the active ingredients in PureCrop1 are corn and soybean oil, it is, in fact, NOT an oil. PureCrop1 utilizes advanced nanotechnology to create a self-assembling molecule, the colloidal micelle, by rearranging long-chain fatty acids derived from both oils. The micelle's particle size and ability to provide chemical and physical stability offers a versatile and unique mode of action.

### Uses

#### Insecticide

PureCrop1 eliminates sap-sucking insects such as aphids, mites, stink bugs, thrips, whiteflies, and other insects feeding on the plant. These pests are eliminated through membrane disruption of the enzymes in their gut. The technology behind PureCrop1 is naturally bio-selective to only these types of membranes, leaving beneficial insects, pets, and humans unharmed.

#### Fungicide

PureCrop1 works as a surface acting agent to cure and prevent molds and mildews, including Botrytis, Fusarium Wilt, Powdery Mildew, Downy Mildew, and more. Micelles disrupt the membranes of these pathogens, aiding in their removal. PureCrop1 creates an unfavorable environment for mold and mildew growth on leaf surfaces. As a result, the spores are washed away and biodegraded. The micelles also shield the anchor sites where mold and mildew attach, inhibiting their growth for up to ten days. Additionally, the micelle increases the activity of phytoalexins, which inhibit the growth of plant parasites.

#### Surfactant

Also described as a surfactant, PureCrop1 lowers the surface tension of water, causing it to spread and stick on the leaf's surface. The micelle's nano-meter particle size can



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deliver nutrients directly to where they are needed, without clogging the stomata. Due to our micelle's encapsulation ability and electrical properties, PureCrop1 is a natural surfactant that is compatible with most other garden products.

## Features & Benefits

### Features of PureCrop1:

- Targets sap-sucking insects and mites while leaving beneficial insects and pollinators unharmed.
- Targets mold, mildew, plant pathogens, and bacteria feeding off the plant, preventing growth for up to ten days.
- Made with seven plant-based ingredients.
- OMRI-Listed, approved for organic use.
- Tests clean parts per billion (PPB) even when used up to the day of harvest.
- Utilizes colloidal micelle nanotechnology.
- No phytotoxicity.
- No change of color or flavor in the end product.
- Zero REI (Re-entry Interval) and Zero PHI (Pre-Harvest Interval).
- FIFRA 25(b) exempt, posing little to no threat to human health or the environment.
- Use in the home, garden, greenhouse, nurseries, and hydroponic settings. Can be used on all indoor and outdoor plants, including houseplants, edible plants, lawn and ornamentals, cannabis, and more.
- Can be used from seedling, through flower, up to the day of harvest, without the risk of phytotoxicity.

### Benefits of PureCrop1:

- Provides preventative care and curative treatment.
- Tested non-toxic to honeybees when used as directed. Does not harm beneficial insects and pollinators.
- Does not harm people, pets, or the planet.



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- Increases plant health and vitality by delivering fatty acids from plant-based ingredients directly to the sap layer, where it can be more readily absorbed by the plant.
- Reduces abiotic stress levels by increasing the Brix level (sugar content) of the plant, leading to increased electrical conductivity and quicker response to threats.
- Maximizes water utilization and increases nutrient uptake.
- Mixable with other products and nutrients, excluding other surfactants.
- Increases Brix levels for visually healthier, more robust plants.
- Biodegrades in 7-10 days.
- Rainfast within two hours. Apply within two hours to protect from rain.

## Instructions & Suggested Use

### Suggested Use

PureCrop1 eliminates sap-sucking insects including but not limited to; aphids, mites, stink bugs, thrips, whiteflies, ants, scale, and more.

PureCrop1 treats Botrytis, Fusarium Wilt, Powdery Mildew, Downy Mildew, and more.

- For curative treatment foliar spray: 1.5-oz to 2-oz per gallon every 2-3 days
- For preventative foliar spray: 1-oz per gallon every 7-10 days
- For curative root zone: 1/2-oz per gallon every water, with or without nutrients
- For general surfactant use: 1-qt per 100 gallons of water

### Instructions

1. Fill your container or sprayer with filtered water
2. Add PureCrop1 concentrate at your desired dilution rate
3. Shake
4. Spray

### Spray Notes

- You can use PureCrop1 as a foliar spray or as a root drench on young plants with established roots to the day of harvest.
- There are many acceptable application methods and sprayers; however, we recommend an atomizer for best coverage.



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- Spray early morning or in the late afternoon while humidity is higher, and temperatures are lower. Doing so will ensure a more extended working period and higher efficacy for PureCrop1.
- Coverage is essential, thoroughly spray all branches, stems, and leaves including the underside.

## Technical/Ingredients

### Ingredients

Active (15%): Soybean Oil (10%), Corn Oil (5%)

Inert (85%): Filtered Water, Guar Gum, Glycerin, Citric Acid, Soap, Vanillin

### Shelf Life

- The shelf life of concentrated PureCrop1 is five years.
- If using reverse osmosis (RO) water to dilute, the shelf life remains at five years. Filtered water, the shelf life is up to 30 days.
- If using tap water, the shelf life is one week.
- Use the solution immediately if using well water to dilute the formula.

### Technical

- PureCrop1 is OMRI-Listed, for use in organic crop production.
- Can be used up to the day of harvest while testing clean parts per billion (PPB).
- Holds a Zero PHI and REI, so you can be in your garden while you spray.
- PureCrop1 is FIFRA 25(b) exempt, meaning it poses little to no risk to human health or the environment, so no reporting is required when using this product.
- PureCrop1 is non-toxic to honeybees when used as directed.

## Restricted Language

- Zero "OSHA"
- Explanation of inert ingredients
- No PPE



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