

## Organic Crop Production

Disinfecting and Sanitizing Pre-harvest and Post-harvest Agricultural Crops

According to 7 CFR 205.601, this product meets the requirements for synthetic substances allowed for use as an algaecide, disinfectant, and sanitizer, including irrigation system cleaning in organic crop production. Crops are defined in 7 CFR 205.2 as any agricultural commodity or product, whether raw or processed, including any commodity or product derived from livestock, that is marketed in the United States for human or livestock consumption. For pre-harvest use, residual chlorine levels in the water in direct crop contact or as water from cleaning irrigation systems applied to soil must not exceed the 4 PPM maximum residual disinfectant limit under the Safe Drinking Water Act.

## Directions for Use on Agricultural Crops

Water Pre-treatment and Irrigation Systems – 1 ounce per gallon of water:

Pathogen and Bio-film Prevention: Dose AGrowlyte into irrigation systems or add to irrigation water. Dilute at the rate of 128:1 with water (128 parts water to 1 part AGrowlyte). Use dosing equipment to dose on a continuous basis into primary water supply lines to achieve a continuous concentration of not greater than 4 ppm FAC solution in the irrigation lines. As an option, use chlorine test strips to determine exact available chlorine concentration. Continue to use irrigation system as normally used. Check the discharge from the irrigation system at the point closest to dosing to ensure a maximum residual chlorine of 4 PPM. Adjust the dosing as appropriate to achieve the desired 4 PPM level of residual chlorine. For prepared water, add 1 ounce of AGrowlyte per gallon of water in the water storage tank to achieve a 128:1 dilution rate. Repeat dosing of prepared water each time the water tank is filled.

## Agricultural Crop Treatment

Prevention – 2 ounces (1/4 cup) per gallon of water:

Mix 2 ounces of this product per gallon of water (64:1 - 64 parts water to 1 part AGrowlyte) to make an 8 PPM FAC solution. As an option, use chlorine test strips to determine exact available chlorine concentration and adjust to desired chlorine level. Spray diluted solution on agricultural crops to control growth of unwanted pathogens and bacteria. Thoroughly wet all parts of the crop being treated, and allow to air dry. Check the residual fluid from the crop to ensure a maximum residual chlorine of 4 PPM. Adjust the mixing as appropriate to achieve the desired 4 PPM level of residual chlorine. Apply twice per week using sprayer or preferred application device.

## Treatment – 10 ounces (1 1/4 cups) per gallon of water:

Mix 10 ounces of this product per gallon of water (12.8:1 – 12.8 parts water to 1 part AGrowlyte) to make a 40 PPM FAC solution. As an option, use chlorine test strips to determine exact available chlorine concentration and adjust to desired chlorine level. Spray diluted solution on agricultural crops to control growth of unwanted pathogens and bacteria. Thoroughly wet all parts of the crop being treated, and allow to air dry. Check the residual fluid from the crop to ensure a maximum residual chlorine of 4 PPM. Adjust the mixing as appropriate to achieve the desired 4 PPM level of residual chlorine. Apply once daily until PM or other pathogenic infection has been eliminated and for several additional days after. In the event of an extreme case of mold, virus or bacterial infection, application twice daily may be warranted. Allow at least 8 hours between applications. Revert back to Prevention dosing once infection has been eliminated.

## Tools, Equipment, and Surface Disinfection – 32 ounces per gallon of water

Add 32 ounces (1 quart) of AGrowlyte per gallon of water to achieve a 4:1 dilution rate. Apply daily to tools, equipment, surfaces, grow rooms, work areas, common areas, and facility to maintain a clean grow. Allow to air dry, no rinse is required.

## CAUTION:

Do NOT spray AGrowlyte on plants during the infant stages (seedling/pre-vegetative) as it will provide no added benefit.

## Agrowlyte Dilution Table

Desired Use	oz. of Agrowlyte	Water Ratio Agrowlyte
Water / Biofilm Treatment	1 ounce	128:1
Foliar Prevention	2 ounces	64:1
Foliar Treatment	10 ounces	12:8:1
Tools / Equipment Surfaces	32 ounces	4:1

