

The GreenSafe System™

Submicroscopic polarized particles are key to the superior performance of CIMR® and GreenSafe™

Sanitizer: The CIMR® generated H₂O₂ gas consists of submicroscopic polarized hydrogen peroxide particles with a polar head and a nonpolar tail. Virus and pathogen membranes also have this polarity. These pathogen opposite charges attract. The infection pathway is blocked instantly. Then the strong oxidizer H₂O₂ molecule penetrates this membrane to destroy the pathogen cell. Harmless water and oxygen remain. CIMR H₂O₂ sanitizer is applied at 1/50th of the OSHA workplace safety limit and is CARB ozone safe. There is no hazardous chemical handling and residual present when other sanitizers like water solutions of H₂O₂ or harsh chemicals like chlorine and ozone are used.

Hygienic Cleaner is vastly different from ordinary soaps. It is powered by the newly emerging science of nano technology. Its particles average only about 2.6 nano in size. It quickly penetrates and dissolves the protective lipid pathogen membrane of the 100 to 200 nano protein globs. It is comprised of trillions of tiny nanoparticles derived from processed extracts of natural plants and oil seeds. The ingredients have been clinically documented as mutagen free (noncarcinogenic) and genotoxicity free (meaning “harmless to humans and animal cellular DNA”). Unlike chemical-based sanitizers, it has no need for toxic fuming chemicals such as alkyl dimethyl benzyl ammonium chloride, alkyl polyglucoside, propylene glycol propyl ether, sodium chloride, etc. People, pets, and livestock are not exposed to respiratory or brain-damaging fumes.

SoilClean™ is all-natural blend of processed plant and oil seed extracts designed for soil remediation. Rescue is needed when yield and quality are diminishing. Because natural plants and synthetic fertilizers are incompatible, it is difficult for plants to absorb minerals such as iron, zinc, and synthetic fertilizers. In some cases, plants absorb as little as 30% to 50% of applied fertilizers and minerals. As much as 50% to 70% of applied fertilizers remain unused. After multiple years of pesticide and synthetic fertilization applications, millions of acres of agricultural soils are saturated with synthetic

Chelation: The word “chelate” is derived from the Greek word Chel or crab claw referring to the pincer movement in dissecting metallic ions. Chelation is a process of dissolving metal and/or synthetic ions. Chelating agents dissolve insoluble iron and other mineral nutrients, making them more absorbable for plants. The benefit for plants: Increased availability and absorbability of nutrients, thus enhancing cation exchange.

contaminants. In many areas' hair roots are unable to penetrate the soil and absorb minerals, moisture, inorganic nutrients, or oxygen. Applying additional fertilizers does not help. Plants remain malnourished and yields are diminished. Much of the money spent on fertilization is wasted. SoilClean™ is exceptionally effective dissolving (chelating) both organic and some inorganic ions in the soil. It improves the absorption of nutrients and chelates contaminants to help loosen clogged soils and restore them to productivity. SoilClean™ stimulates growth and yield. It increases drought resistance and reduces freeze and frost damage. A single application appears to loosen and restore the soil to arability and increased yields. The savings achieved in reduced fertilizer costs can exceed the price of the SoilClean™ application. Growers report increased yields range between 20% to 35%.

Soil Amendment XLR8® Bio is a probiotic formulation combining the key technologies pioneered by VRM Biologik® for soil enhancement and nutrient management. This product helps stimulate biological reactions in soil which enhance carbon sequestration and biological nitrogen fixation. With continued use, this activity contributes to humus building and enhances mycorrhizal activity

in the critical root zone. Regular use of XLR8® Bio stimulates the natural biological activity responsible for water manufacture in soil. It is a blend of fermented fruit, vegetables and organic material, purified water, cane syrup, and yeast. XLR8® Bio diluted 1:10 in water and applied to soil as a fine mist 7 to 10 days prior to planting. It may be sprayed with fertilizer. It is applied once per growing cycle. Reapplication is required 14 days after application of fungicides, herbicides, or sterilizing agents.

Nutrient Enhancers are applied to growing media then on plants at two to three weeks after emergence and then weekly. Soil and plant application of nutrient enhancers support growth yield, quality, and post-harvest freshness 3 ways:

1. The first effect is to impart an increase in the cation- exchange capacity (CEC). By increasing the number of cations available to the plant at any given pH the fertility of the growing medium is increased, allowing nutrients and trace elements to be more readily absorbed through the roots.
2. The second effect is to give the plant a reliable source of plant growth stimulators and amino acids. The growth stimulators include naturally occurring levels of auxin, gibberellin, cytokinin and plant hormones which are readily used by the plant to regulate plant growth as cell division in roots and shoots. Bud growth and essential oil production are increased.
3. Thirdly, the unique formulation promotes the transport of sugars (brix) throughout the plant which enhances photosynthesis.
4. Post-harvest analysis indicates increased nutritional content, thus correcting a growing problem of vegetables and other crops containing insufficient nutrition.

Bio-Pesticide is not a poison. It consists of processed plant and oil seed extracts known for centuries to be beneficial for pest control. centuries millennia are combined into colloidal micelles using a modern proprietary process blending them at specific time intervals, temperatures and sequences resulting in our breakthrough product system. Purely Green Bio-Pesticide is not a poison. Bio-Pesticide penetrates most soft bodied targets such as aphids, fungi, mealy bugs, nematodes, powdery mildew, and spores. It dissolves their protective cellular chitin, resulting in death. Insects can offer no resistance. For insects such as fleas, grasshoppers, and hard-shelled beetles, it penetrates and dries the lubrication of their exoskeleton joints. The crippled insect dies of starvation. For flying insects like white flies, mosquitoes, wasps, etc. it penetrates and dissolves the waxy coating of the wings plus dries and paralyzes the exoskeleton wing connection to the body. And the tiny particles enter via the insect's spiracles and dissolve the protective chitin of the tracheae. The insect dies of oxygen starvation. For sucking insects such as leaf hoppers, scale, spider mites, stink bugs, thrips, etc., it dissolves the insect's digestive system. It can be applied foliar or systemically by soaking the plant roots. The plant absorbs and transmits Bio-Pesticide to the leaves where the insect ingests it. When ingested, Bio-Pesticide dissolves the cellular structure of the bug's digestive system. The combination of multiple modes of action leaves little or no chance of insect survival. It is most common for death to occur within minutes of application in most insects, however with some of the hardier bugs, it may take several days. Buried eggs may survive; therefore, repeat applications should be applied based on the reproductive cycle of the pest. Three applications days apart significantly reduce pest populations until more arrive from neighboring farms.

Reference:

[How does polarity of molecules affect diffusion?](https://tinyurl.com/w5xawcdb)

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