



**Colloidal
Bio-Insect
Control
(FIFRA 25b
Exempt)**

**Advantages &
Benefits**

WISE Colloidal Bio-Insect Control™ uses unique colloidal technology to deliver potent control of mosquitoes, aphids, flies, fleas, gnats, no-see-ums, mites, spiders, fruit flies, ants, chiggers, ticks, silverfish, crickets, moths, chinch bugs, palmetto bugs, lygus and more, including larval, pupae and adult stages, while posing no threat to humans and animals or the flora and fauna. On contact, this product immediately impacts the exoskeleton structure of arthropods by disrupting the molecular structure of the chitin and other protein substances that protect insects. Its mechanism of action triggers the rapid and irreversible deterioration of the insects' spiracles and tracheal system resulting in suffocation in the case of the adult mosquitoes, beetles, mites, ticks, and wood borers.

The major advantage of this revolutionary method of insect control is the ability to target an *individual species, or range of insects*, through varied dilution rates. This makes it possible to control problem insects without harm to larger animals, people or the environment. A major benefit of this revolutionary method of insect control is the complete absence of undesirable side effects on human health and the ecosystem. Additionally, unlike standard insecticides in use today, no built-in resistance can be developed by the targeted insects since this new insecticide does not act on their nervous system, but rather on their respiratory apparatus.

WISE Biopesticide advantages:

- ✓ Pesticide Free
- ✓ Reduces risk and liabilities
- ✓ Improved worker safety
- ✓ Reduces risk and liabilities
- ✓ Reduces cost of disposal
- ✓ Less regulatory hassle
- ✓ Requires no pesticide applicator license
- ✓ Contains no FIFRA regulated ingredients
- ✓ Made from renewable resources
- ✓ Contains no WHIMS regulated ingredients
- ✓ Reduced worker health risks
- ✓ Does not react with other chemistries
- ✓ High performance
- ✓ Highly concentrated
- ✓ Safe for use on fabrics
- ✓ Will not harm plants
- ✓ Safe for other animals
- ✓ No hydrocarbon mess

Benefits:

Effectiveness: Colloidal Bio-Insect Control has been engineered to be extremely effective at removing many types of insects.

Residual Effect: Unlike fossil petroleum-derived pesticides and other harsh chemicals, WISE Bio-Pesticide is not a neurotoxin, nor does it accumulate in the environment, flora or fauna.

Safety: made from natural ingredients that will not harm your home, family or pets.

Technology: our products are created using colloidal green chemistry that enables the use of natural plant extracts to deliver breakthrough solutions not possible until recently

Easy to Use – This product is packaged as a concentrate and is easily diluted with plain water to make it ready to use (RTU) with easy instructions.

**Technology
Highlights**

Colloidal Bio-Insect Control is an exceptionally powerful, stable, safe, and readily biodegradable product. Colloidal chemistry creates nano-sized particles called “micelles” that are 2 - 4 nanometers in size (one nanometer = one-billionth of a meter, or 1/80,000 the width of a human hair), which is 50-100 times smaller than the particles created from typical pest control solutions. These particles are electrically charged and, though deadly to targeted species of insects, harmless to larger animals, the environment and plants.

Uses

Agricultural fields	Dairy Barns	Dog Kennels	Yards
Food Processing Areas	Livestock Facilities	Horse Stables	Ponds
Food Storage Areas	Barns	Homes	Nurseries / Greenhouses

Specifications



**Application &
Dilution
Instructions**

To Order

Available Size
Container

Quantity (min.)

Colloidal Bio-Insect Control (cont'd)

Though the formulation is proprietary, this product contains extracts from plants, grains, fruits such as cactus, coconut, corn, grass, potatoes, rice, soy, citrus fruit, essential oils such as thyme, sage, garlic, cedar, and minute amounts of natural non-ionic surfactants and water.

100% BioBased Ingredients– alkanolamines, amino acids, plant/vegetable extracts and oils, nonionic surfactants, plant based fatty acids and organic alcohol in a base of colloidal micelles.

RADIOCARBON C-14 (5/10/04) USDA approved testing to meet requirements for product tested at 84 (range 83-91; N=8), Minimum biobased contact n=5.

CLEAN AIR SOLVENT: SCAQMD method 313-91 NO VAHAP, ODC or GWC detected.

CARCINOGENICITY: No ingredients lists by IARC, ACGIH, NTP or OSHA as a carcinogen.

Flash Point: None
Odor: Faint garlic odor
Boiling Point: 214.4 F
Freezing Point: 28.0 F
Specific Gravity: 1.001
Solubility: 100%
pH: 9.7
Appearance: slightly viscous

WISE Solutions, Inc. represents that all ingredients are on the EPA list of low risk active/inert ingredients and this product qualifies for exemption from registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), per EPA PR Notice 2006-6 minimum risk criteria under FIFRA Section 25(b) (40CFR152.25). This product is not registered with the EPA.
 For more info: www.epa.gov/PR_Notices/pr2000-6.pdf

WISE Colloidal Bio-Insect Control provides business owners, ranchers, animal specialists and farm managers with a safe, simple, and economical way to rid their property of potentially hazardous insects.

Apply using the preferred method: cold fogger or pressurized sprayer set to a fine mist.

Spraying: Use a hand sprayer, backpack sprayer, commercial pressurized rig, or aerial technology. You may re-apply the product any time target pests reappear or migrate from untreated areas. If target pests persist, you may need to disrupt their reproductive cycle by more frequent spraying that includes addressing larval and pupae as well as adult stage populations.

Foggers: Cold fogging units do not require product to burn in order to create a mist or fog. This type of fog is considered cleaner and can be used indoors and outdoors to kill unwanted flying or biting pests. Electric foggers are the choice of professionals who frequently fog homes, restaurants, warehouses, patios and other selected outdoor areas. This product is best dispensed with a cold fog (10-20 micron droplet size is optimal).

Dilution Instructions: If you did not purchase the ready-to-use strength of this product, here are directions for use:

- Vary dilutions rate to suit your specific environment and pest(s).
 - General rule: larger insects require higher concentrations.
 - *Standard maintenance:* 1 to 2 oz. of concentrate per gallon.
 - *Initial knockdown and severe infestations:* 3 - 6 oz. per gallon.
- Use 3 - 10 gallons of diluted product per acre.

Mix the product with plain water to activate, then using the spraying or fogging method of choice, apply generously to all affected areas. Make sure you cover the underside of the plant leaves.

To apply in barns and other large areas, use United Spray Systems, Auto Mist Application System. This enables the product to be dispensed automatically at preset intervals over large areas.

Fax to 831-728-1753 or call 800-491-9473 for Customer Service
 Visit www.wisesolutions.net or Email sales@wisesolutions.net

1 gal. Bottle	5 gal. Pail	55 gal. Drum	330 gal. Tote