

**BRANDT**<sup>®</sup>

**TriTek**<sup>®</sup>

Three Levels of Crop Protection:  
Unique, Effective & Reliable

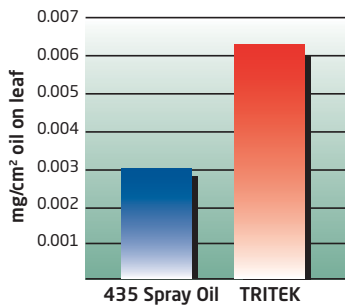


***Spray Oil Emulsion***  
***Fungicide, Insecticide and Miticide***



# The Difference.

*TriTek is unique. No insecticidal oil compares in either physical attributes or performance.*



In aerial field trials, TRITEK and 435 Spray Oil were applied at the rate of 9.5 liters per hectare. Thornton Laboratories detected .003 mg/cm<sup>2</sup> of 435 Spray Oil to have been deposited on the leaves, while .0067 mg/cm<sup>2</sup> of TRITEK were found on both the top and bottom of the leaves (more than twice as much coverage).

## Safe and Effective

The proven leader in pesticidal performance and reliability, TRITEK is a unique concentrate of pre-emulsified highly refined, high paraffinic, low aromatic oil. TRITEK provides effective pest and disease control on a broad range of crops and ornamentals. TRITEK is OMRI listed and meets or exceeds most worldwide standards for agricultural spray oils.



Agricultural spray oils are effective pest control mechanisms, but their efficacy, as well as hazards, are directly related to how long the oil remains on the plant. Most light oils (boiling point less than 179° C) are considered to be less effective or non-pesticidal because they don't remain on the plant long enough to suffocate the pests, while most heavy oils (boiling point greater than 296° C) are considered to be hazardous to plants.

**TRITEK is in the optimal "narrow" range, providing superior pesticidal activity and durability without the hazards known to heavier oils.**

## Why is TriTek Pre-Emulsified?

TRITEK is pre-emulsified to produce more stable and effective results. Under high speed shearing, the *BRANDT* process breaks down the oil droplets, reducing them from typically 700 microns in diameter to approximately 50 microns (1/14th its original size). To keep these droplets apart, two emulsifiers are added at the critical moment along with water. This process creates a stable creamy emulsion that keeps the droplets apart, and allows for easy and stable dilution in the spray tank.

These smaller oil droplets assure that only a very thin, even coating of oil will be applied to the plant. Thin and even coverage enables TRITEK to be more effective in killing insects as well as being safer for the plant. Remember, the oil droplet is reduced to approximately 1/14th its original size, but without proper emulsification, these oil droplets would coalesce back into larger droplets like conventional products, and be at higher risk for emulsification breaks and phytotoxic results.



Conventional spray oil droplet



TRITEK droplet

14 times smaller than conventional spray oil droplet

## Benefits of Pre-Emulsification

### Mixing

TRITEK, already emulsified, dilutes with water more easily and thoroughly than conventional spray oils. Emulsifying with hard water is not a problem for TRITEK.

### Stability

Even after dilution, TRITEK won't separate for many hours in a spray tank. Many conventional oil products begin to break apart into their separate oil and water phases immediately after mixing; TRITEK does not. The stable emulsion of TRITEK lasts longer than all other oil products ensuring that the spray application is consistent from beginning to end.

### Reliability

When conventional oil emulsions break apart (shown at right), the oil separates and floats to the surface of the tank. If applied at that point, the solution drawn from the bottom of the tank provides little plant protection, while the remainder may cause phytotoxicity.

### Safety

Manufactured using the finest "narrow range" oils and emulsifiers, TRITEK doesn't put your crop at risk by using heavy oils known for their phytotoxic risk. The unique formulation of TRITEK provides excellent coverage and durability with little risk of phytotoxicity.



**Conventional spray oil mixture**  
Separates and rises to top  
in minutes



**TRITEK**  
Stays mixed for up to 3 hours

# Applications

### Range of Applications

TRITEK, used alone or in combination with other products, is a highly effective control for a broad range of crops and pests. TRITEK's mode of action is primarily through the suffocation of eggs, larvae, nymphs and adults of soft bodied insects. TRITEK controls a wide range of mite and insect pests in the egg stage such as: spider and eriophyid mites, armored and soft scales, mealy bugs, psyllids, whiteflies, aphids, leafrollers, leaf tiers, webworms, cankerworms, plant bugs, leafhoppers, and adelgids.

### Compatibility

TRITEK is compatible with most commonly used insecticides and fungicides. Read and follow all precautions and limitations on labeling of all products used in tank mixtures. Do not use in combination with or immediately before or after spraying fungicides such as captan, folpet, oxythioquinox or any product containing sulfur. Also do not use with carbaryl or dimethoate. Do not use with any product whose label does not recommend the use of oils. Do not use in combination with NPK foliar fertilizer applications.



- Uniform coverage to smother pests without causing burn or stress to plants
- Effective in high or low pressure applications
- Excellent compatibility with pesticides labeled for use with oil
- Penetrates dense spots in canopy
- Requires much less agitation to maintain homogenous mix







**RATE RECOMMENDATIONS**

1-2% of TRITEK per spray solution (1-2 liters of TRITEK per 100 liters of water).

**TREE CROPS**

**Almond, Apricot, Cherry, Nectarine, Peach, Pecan, Plum, Prune:** Aphids, Fruit Tree Leaf Roller, Mites, Scales, Whiteflies  
**Apple (all varieties):** Aphids, Bugs (including Apple Red Bug), Fruit Tree Leaf Roller, Mites (including European Red Mite), Powdery Mildew, Scales (hard, soft, scurfy), Whiteflies  
**Avocado, Banana, Cocoa, Coffee, Macadamia, Papaya:** Bugs, Leafhoppers, Leaf Rollers, Scales, Sigatoka, Thrips  
**Citrus:** Blackfly, Greasy Spot, Mites, Scales (Glover, Chaff, Purple, Yellow, Red, Snow, Brown and California), Sooty Mold, Whiteflies  
**Hops:** Aphids, Leaf Roller, Mites, Powdery Mildew, Scales, Whiteflies  
**Pear (all varieties):** Aphids, Fruit Tree Leaf Roller, Mites (including Pear Leaf Blister Mite), Pear Psylla, Powdery Mildew, Scales, Whiteflies  
**Pineapple:** Aphids, Mealybugs, Mites, Scales  
**Fig, Kiwi, Olive, Pistachio, Walnut:** Aphids, Mites, Scales

**VEGETABLE AND FIELD CROPS**

**Asparagus, Bean, Cucumber, Eggplant, Melon, Peanut, Pepper, Pumpkin, Radish, Squash, Tomato:** Aphids, Beetle Larvae, Leafhoppers, Leaf Miners, Mites, Thrips, Powdery Mildew, Whiteflies  
**Cabbage, Cauliflower, Celery, Cole Crops, Lettuce, Onion:** Aphids, Leafhoppers, Leaf Miners, Loopers, Mites, Plant Bugs, Thrips, Whiteflies  
**Corn (sweet, field, seed), Popcorn, Potato, Sweet Potato, Sugar Beet:** Aphids, Leaf Miners, Mites, Whiteflies  
**Cotton:** Aphids, Bollworm eggs and larvae, Leafhoppers, Loopers, Mites, Plant Bugs, Thrips, Whiteflies  
**Grasses (grown for seed):** Mites, Powdery Mildew, Rust  
**Tobacco:** Leaf Miners, Mites, Whiteflies

**SMALL FRUIT**

**Bushberries, Caneberries, Strawberry:** Aphids, Mites, Powdery Mildew, Rust, Sawfly, Scales, Whiteflies  
**Grapes:** Botrytis, Leafhoppers, Leaf Miners, Mealybugs, Mites, Powdery Mildew, Scales, Whiteflies

**GREENHOUSE/ORNAMENTALS**

**Azalea, Camellia, Carnation, Fuschia, Gladiola, Hibiscus, Iris, Lily, Mums, Orchids, Poinsettia, Rhododendron, Rose, Vines:** Aphids, Fungus Gnat, Leaf Miners, Mealy Bugs, Mites, Powdery Mildew, Rust, Scales, Thrips, Whiteflies

**SHADE TREES, SHRUBS, ORNAMENTALS,\* FLOWERS AND FOLIAGE**

**Conifers, Flower Foliage and Bedding Plants, Ornamentals\*, Shade Trees, Shrubs, Christmas Trees\***  
 Aphids, Black Spot, Leaf Miners, Mites, Plant Bugs, Powdery Mildew, Psyllids, Rust, Sawflies, Scales, Whiteflies

\* **Ornamentals, Christmas Trees** - Oil might remove the glaucous (blue) bloom from such evergreens as Colorado Blue Spruce and Koster Spruce. Use with caution and reduced dosage for summer applications on Japanese Red Maple, Amur Maple and Black Walnut, and for dormant application on Sugar Maple and Redbud.

**ACTIVE INGREDIENTS** **BY WEIGHT**

Mineral Oil .....	80.0%
Other Ingredients .....	20.0%
<b>Unsulfonated Residue of Mineral Oil 92% min.</b>	<b>EPA Reg. No. 48813-1</b>

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