Three Levels of Crop Protection:
Unique, Effective & Reliable

Spray Oil Emulsion
Fungicide, Insecticide and Miticide

Active Ingredients

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<th>By Weight</th>
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The Difference.

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

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.

In aerial field trials, TriTek and 435 Spray Oil were applied at the rate of 9.5 liters per hectare. Thornton Laboratories detected 0.003 mg/cm² of 435 Spray Oil, while 0.0067 mg/cm² of TriTek were found on both the top and bottom of the leaves (more than twice as much coverage).

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.

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.

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.

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 earwig mites, armored and soft scales, mites, bugs, psyllids, whiteflies, aphids, leafhoppers, leafrollers, 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, ethirimol 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.

Applications

- Effective in high or low pressure applications
- Good for tank mixtures
- Excellent in high or low pressure applications
- Penetrates dense spots in canopies
- Requires much less agitation to maintain homogeneous mix
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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

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**Vegetable and Field Crops**

- Asparagus
- Bean
- Cucumber
- Eggplant
- Melon
- Pea
- Paprika
- Pumpkin
- Radish
- Squash
- Tomato

**Tree Crops**

- Almond
- Apricot
- Cherry
- Nectarine
- Peach
- Pecan
- Plum
- Prune

**Greenhouse/Ornamentals**

- Azalea
- Camellia
- Carnation
- Geranium
- Hibiscus
- Iris
- Lily
- Mums
- Orchid
- Poinsettia
- Rhododendron
- Rose
- Violet

**Rate Recommendations**

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

**Active Ingredients**

- Mineral Oil ................................................................. 90.0%
- Other Ingredients ......................................................... 20.0%
- Unsulfonated Residue of Mineral Oil 92% min.

**EPA Reg. No. 48813-1**

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**Active Ingredients by Weight**

- Mineral Oil ................................................................. 80.0%
- Other Ingredients ......................................................... 20.0%

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**Ingredient Information**

- **Mineral Oil**: A natural byproduct of petroleum extraction, used as a commercial emulsifier in crop protection products.

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**Additional Information**

- 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 for dormant application on Sugar Maple and Redbud.

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