



**BioWorks®**



# Frequently Asked Questions

## **What is SuffOil-X?**

Spray Oil Emulsion Fungicide, Insecticide and Miticide. It is the ideal choice for effective insect, mite and disease control in a broad range of greenhouse, nursery and vegetable crops.

## **What pests does SuffOil-X kill?**

SuffOil-X has a wide range of activity on most mites, scale, aphids, psyllids, mealybugs, early stage caterpillars, whiteflies, leafminers and other immature or adult soft bodied insects. It is also effective on eggs of mites, aphids and some moths. SuffOil-X also controls rust and powdery mildew.

## **What is the mode of action of SuffOil-X?**

Suffocation. This mode of action necessitates total spray coverage. As a fungicide, it interferes with the attachment of the pathogen to the host.

## **Is SuffOil-X systemic?**

No. It is a contact material.

## **Does SuffOil-X work on soil inhabiting insects?**

No.

## **Is SuffOil-X safe for beneficial insects?**

Yes. SuffOil-X leaves no toxic residues and therefore is less disruptive to beneficial insects than traditional materials with long residual activity. SuffOil-X allows beneficials to rapidly repopulate a sprayed area. Some beneficials can avoid sprays due to their mobility.

## **Is SuffOil-X safe for workers?**

Yes. SuffOil-X is labeled as a category III pesticide with the word Caution. SuffOil-X has a 4 hour re-entry interval (REI) and no special Worker Protection Standard (WPS) safety requirements.

## **Is SuffOil-X safe for plants?**

Yes. There have been no phytotoxicity issues when SuffOil-X is used as directed. The unique formulation allows for less oil to be applied and faster drying time. The small droplets allow for a more uniform coverage and thinner coating of the leaf surface. Since heavy oils are not used, this lessens the possibility of crop damage without loss of efficacy.

To find out more about the BioWorks family of products, please contact us at **800-877-9443** or visit [www.bioworksinc.com](http://www.bioworksinc.com). © 2010 BioWorks, Inc.

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### **Is SuffOil-X OMRI listed?**

Yes. SuffOil-X was approved for organic use in 2009.

### **Is SuffOil-X supposed to be white in color?**

Yes. This is due to the pre-emulsification formulation. The benefits of the pre-emulsification process are that SuffOil-X dilutes with water easier and more thoroughly. Hard water is not a problem. SuffOil-X will not separate for many hours in a spray tank. It allows for excellent coverage and durability.

### **How often should I spray SuffOil-X?**

Apply as needed. Begin spraying at the first sign of pests.

### **Can you tank mix SuffOil-X?**

Yes. SuffOil-X is compatible with most insecticides and fungicides including Molt-X, BotaniGard, MilStop, and CEASE. However, do not use in combination with captan, folpet, oxythiinox (Morestan) or any product containing sulfur. Also do not use with Carbaryl (Sevin) or dimethoate (Cygon). Do not use with any product whose label recommends the use of no oils or in combination with NPK foliar fertilizer applications.

### **What are some tips for applying SuffOil-X?**

Use enough spray solution to completely penetrate the leaf canopy and cover both top and bottom of all leaves until wet without significant runoff. Monitor weather conditions. Apply when oil will dry and evaporate in 1-2 hours and when relative humidity is less than 90%. Spray early in day and when temperature does not exceed 95°F. Avoid application on overcast, humid days and after rain when evaporation time will be longer. Avoid spraying during high winds. Spray when there is adequate soil moisture and no drought stress.

### **What is the typical rate I should apply SuffOil-X?**

Use 1-2 gal SuffOil-X per 100 gal water or 1% to 2% SuffOil-X for any volume of water. The maximum labeled rate is 2%. While there is no restriction on how long the mixed solution can be stored, we recommend using the solution within a day or two.

### **How is SuffOil-X packaged?**

SuffOil-X is packaged in a 1 and 2.5 gallon plastic jugs. A case contains 4 x 1 gallons or 2 x 2.5 gallons. SuffOil-X can also be purchased in 30 gallon drums.

### **Where do I purchase SuffOil-X?**

BioWorks has selected distribution partners in virtually all areas of the US. Visit our website ([www.bioworksinc.com](http://www.bioworksinc.com)), or call 800-877-9443 to locate the closest supplier in your area.