# SuffOil-**X**<sup>™</sup>

# Spray Oil Emulsion Fungicide, Insecticide and Miticide

# ACTIVE INGREDIENT:

Petroleum Oil	80.0%
OTHER INGREDIENTS:	<u>20.0%</u>
TOTAL:	100.0%

# Unsulfonated

Residue of Petroleum Oil ...... 92.0% min.

EPA Reg. No. 48813-1-68539 EPA Est. No. 48813-IL-1

## Net Contents: 1 gal (3.78 l) or 2.5 gal (9.46 l)

# KEEP OUT OF REACH OF CHILDREN CAUTION

# FIRST AID

#### If Swallowed:

- Immediately call a poison control center or doctor for treatment advice.
- Do not induce vomiting unless told to do so by the poison control center or doctor.
- Do not give ANY liquid to the person.
- Do not give anything by mouth to an unconscious person.

#### If On Skin

Take off contaminated clothing.

#### Or Clothing:

• Rinse skin immediately with plenty of water for 15-20 minutes.

• Call a poison control center or doctor for treatment advice.

#### If In Eyes:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes. Then continue rinsing eye.

• Call a poison control center or doctor for treatment advice.

#### If Inhaled:

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth
- Call a poison control center or doctor for further treatment advice.

#### HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact the National Pesticide Information Center at 1-800-858-7378 for emergency medical treatment information.

#### NOTE TO PHYSICIAN

Contains petroleum distillate – do not induce vomiting since vomiting may pose aspiration pneumonia hazard.

#### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION:** Harmful if swallowed. Avoid breathing spray mists or vapors. Wash thoroughly with soap and water after handling. Avoid contamination of feed or foodstuffs.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

**WPS USES**: Handlers who may be exposed to the dilute through application or other tasks covered by the Worker Protection Standard (40 CFR Part 170) – in general, agricultural plant uses are covered – must wear: long-sleeved shirt and long pants, shoes plus socks and chemical resistant gloves (such as barrier laminate or nitrile rubber, neoprene rubber, or viton). Follow manufacturer's instructions for clean/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**NON-WPS USES:** Handlers who may be exposed to the dilute through application or other tasks NOT covered by the Worker Protection Standard (40 CFR Part 170) – in general, only agricultural plant uses are covered by the WPS – must wear: long-sleeved shirt and long pants, shoes plus socks and chemical resistant gloves (such as barrier laminate or nitrile rubber, neoprene rubber, or viton). After using this product, remove clothing and launder separately before reuse, and promptly and thoroughly wash hands and exposed skin with soap and water.

### USER SAFETY RECOMMENDATIONS

Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

# **ENVIRONMENTAL HAZARDS**

This product is toxic to fish. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of wastes.

Apply this product only as specified on the label.

# **DIRECTIONS FOR USE**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

# AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural works on farms, forest, nurseries, and greenhouses and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted entry intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 4 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls, chemical resistant gloves, and shoes plus socks.

#### NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are not within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries and greenhouses.

Do not allow people (other than applicator) or pets on treatment area during application. Do not enter treatment areas until spray has dried.

# **GENERAL INFORMATION**

This insecticide's mode of action is through suffocation of eggs, larvae and nymphs of insects and mites and adults of soft-bodied insects. This mode of action necessitates total spray coverage. As a fungicide it interferes with the attachment of the pathogen to the host and acts as a suffocant. Use enough spray solution to completely penetrate the leaf canopy and cover both top and bottom of all of the leaves until wet without significant runoff. Most mature trees will require 20 to 500 gallons of spray solution per acre although citrus trees may require 15 to 1000 gallons of spray solution per acre. Row crops generally require 20 to 100 gallons of spray solution per acre. (Be sure to check with your equipment and local recommendations.)

SuffOil- $\boldsymbol{X}$  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, leaftiers, webworms, cankerworms, plant bugs, leafhoppers and adelgids. SuffOil- $\boldsymbol{X}$  will kill other immature forms if spray covers the insect.

**USE PRECAUTIONS** — All horticultural oils interfere with or slow plant transpiration and respiration during periods of evaporation. DO NOT apply during periods of drought or when plants exhibit moisture stress.

**COMPATIBILITY** — SuffOil-x 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 with fungicides such as captan, folpet, oxythiquinox (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. Do not use in combination with NPK foliar fertilizer applications.

**CHEMIGATION** — Do not apply this product through any type of irrigation system.

**TIMING THE TREATMENT** — You must determine the precise timing to fit local growth and climatic conditions. This product can be applied up to day of harvest.

**MIXING DIRECTIONS** — Add sufficient water to the mixing tank to allow proper agitation. Add the correct amount of SuffOil- $\boldsymbol{X}$  to tank. Maintain agitation until solution is used. If other pesticides are to be added, do so after SuffOil- $\boldsymbol{X}$  has been thoroughly mixed.

TREE CROPS			
CROP	PEST	APPLICATION RATE Gallons of SuffOil- <b>X</b> per 100 Gallons of Water	TIME OF APPLICATION
Almond, Apricot, Cherry, Plum, Prune	Aphids, Fruit Tree Leaf Roller, Mites, Scales, Whiteflies	1-2	As Needed
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	1-2	As Needed
Avocado, Banana, Cocoa, Coffee, Macadamia, Papaya	Bugs, Leafhoppers, Scales, Sigatoka, Leafroller, Thrips	1-2	As Needed
Citrus*	Blackfly, Greasy Spot, Mites, Scales (Glover, Chaff, Purple, Yellow, Red, Snow, Brown and California), Sooty Mold, Whiteflies	1-2	Fall Early Winter Post-bloom March-April
Hops	Aphids, Leaf Roller, Mites, Powdery Mildew, Scales, Whiteflies	1-2	As Needed
Nectarines, Peach, Pecan	Aphids, Fruit Tree Leaf Roller, Mites, Scales, Whiteflies	1-2	As Needed
Pear (all varieties)	Aphids, Fruit Tree Leaf Roller, Mites (including Pear leaf Blister Mite), Pear Psylla, Powdery Mildew, Scales, Whiteflies	1-2	As Needed
Pineapple	Aphids, Mealybugs, Mites, Scales	1-2	As Needed
Fig, Kiwi, Olive, Pistachio, Walnut**	Aphids, Mites, Scales	1-2	As Needed

## RATE RECOMMENDATIONS

\* Citrus — Oils applied after October may increase cold damage to trees; applied in August and September may affect solids content, retard color.

\*\* Walnut — Apply late spring to mid-summer only. Do not apply after husk split.

#### VEGETABLE AND FIELD CROPS

CROP	PEST	APPLICATION RATE Gallons of SuffOil- <b>X</b> Per 100 Gallons of Water	TIME OF APPLICATION
Asparagus, Pepper, Bean Pumpkin, Cucumber Radish, Eggplant, Squash, Melon, Tomato, Peanut	Aphids, Beetle Iarvae, Leafhoppers, Leaf Miners, Mites, Thrips, Whiteflies	1-2	As Needed
Cabbage, Cauliflower, Celery, Cole Crops, Lettuce, Onion	Aphids, Leafhopper, Leaf Miners, Loopers, Mites, Plant Bugs, Thrips, Whiteflies	1-2	As Needed
Corn (Sweet, Field, Seed), Popcorn, Sugar Beet	Aphids, Leaf Miners, Mites, Whiteflies	1-2	As Needed

## VEGETABLE AND FIELD CROPS (cont'd)

CROP	PEST	APPLICATION RATE Gallons of SuffOil- <b>X</b> Per 100 Gallons of Water	TIME OF APPLICATION
Cotton	Aphids, Bollworm eggs and larvae, Leafhoppers, Loopers, Mites, Plant Bugs, Thrips, Whiteflies	1-2	As Needed
Grasses (Grown for Seed)	Mites, Powdery Mildew, Rust	1-2	As Needed
Potato Sweet Potato	Aphids, Leaf Miners, Mites, Whiteflies	1-2	As Needed
Tobacco	Leaf Miners Mites Whiteflies	1-2	As Needed

#### SMALL FRUITS

CROP	PEST	APPLICATION RATE Gallons of SuffOil- <b>X</b> Per 100 Gallons of Water	TIME OF APPLICATION
Bushberries, Caneberries, Strawberry	Aphids, Mites, Powdery Mildew, Rust, Sawfly, Scales, Whiteflies	1-2	As Needed
Grape	Botrytis, Leafhoppers, Leaf Miners, Mealybugs, Mites, Powdery Mildew, Scales, Whiteflies	1-2	As Needed

## SHADE TREES, SHRUBS, ORNAMENTALS, FLOWER AND FOLIAGE PLANTS

CROP	PEST	APPLICATION RATE Gallons of SuffOil- <b>X</b> Per 100 Gallons of Water	TIME OF APPLICATION
Conifers, Flower, Foliage and Bedding Plants, Ornamentals*, Shade Trees, Shrubs	Aphids, Black Spot, Leaf Miners, Mites, Plant Bugs, Powdery Mildew, Psyllids, Rust, Sawfly, Scales, Whiteflies	1-2	As Needed

\*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 application on Japanese Red Maple, Amur Maple and Black Walnut. Use with caution and reduced dosage for dormant application on Sugar Maple and Redbud.

#### **GREENHOUSE ORNAMENTALS**

CROP	PEST	APPLICATION RATE Gallons of SuffOil- <b>X</b> Per 100 Gallons of Water	TIME OF APPLICATION
Azalea, Camellia, Carnation, Fuchsia, Gladiola, Hibiscus, Iris, Lily, Mums, Orchids, Poinsettia, Rhododendron, Rose, Vines	Aphids, Fungus Gnat, Leaf Miners, Mealy Bugs, Mites, Powdery Mildew, Rust, Scales, Thrips, Whiteflies	1-2	As Needed

# STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

**STORAGE:** Store in a cool, dry, locked area out of reach of children. Protect from excessive heat. Keep container tightly closed in storage to prevent entry of water.

**PESTICIDE DISPOSAL:** Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

# **CONDITIONS OF SALE**

**NOTICE TO BUYER AND SELLER:** Seller warrants that this product conforms to the description on the label and is reasonably fit for the purposes stated on the label when used and stored in accordance with directions under normal conditions of use. This warranty does not extend to use of this product contrary to label directions or under conditions not reasonably foreseeable by the Seller, and Buyer and User assume the risk of any such use. Seller disclaims all other warranties express or implied, including any warranty of fitness or merchantability. To the extent permitted by state law, Seller shall not be liable for consequential, special or indirect damages resulting from use or handling of this product and Seller's sole liability and Buyer's and User's exclusive remedy shall be limited to refund of the purchase price. This product is sold only for uses stated on its label. No express or implied license is granted to use or sell this product under any patent in any country except as specified.

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