

# INSECTICIDAL SOAP 49.52 CF

**OLYMPIC**  
HORTICULTURAL PRODUCTS™

**SPECIMEN LABEL**

FOR USE on FRUITS, NUTS, VEGETABLES, and ORNAMENTALS

ACTIVE INGREDIENT:

Potassium Salts of Fatty Acids ..... 49.52%

INERT INGREDIENTS ..... 50.48%

Total ..... 100.00%

EPA Reg. No. 36488-45-59807

EPA Est. No. 44616-MO-1

Net Contents: 2.5 gallons or 30 gallon drums

## KEEP OUT OF REACH OF CHILDREN

## WARNING / AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**WARNING:** Causes substantial but temporary eye injury. Causes skin irritation. Do not get on skin, in eyes or on clothing. Wear goggles or safety glasses. Wash thoroughly with soap and water after handling. Remove and wash contaminated clothing before reuse.

### PERSONAL PROTECTIVE EQUIPMENT

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for Category C on an EPA chemical resistant category selection chart.

**Applicators and other handlers of the diluted product must wear:** Clothing that avoids exposure of bare skin to product including long pants, long-sleeved shirt, socks, shoes, and protective gloves. Protective eyewear should be used for overhead exposure.

**Mixers and loaders of the concentrate product must wear:** Coveralls over short-sleeved shirt and short pants.

Chemical resistant gloves such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride, viton. Chemical-resistant footwear plus socks. Protective eyewear. Chemical-resistant headgear for overhead exposure. Chemical-resistant apron when cleaning equipment, mixing, or loading.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning / maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

### User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove contaminated clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

## STATEMENT OF PRACTICAL TREATMENT

**If in Eyes:** Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention. **If on Skin:** Wash with plenty of soap and water. Get medical attention. **If Inhaled:** Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

## ENVIRONMENTAL HAZARDS

This product may be hazardous to aquatic invertebrates. For terrestrial uses, 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 water.

## PHYSICAL OR CHEMICAL HAZARDS

Flammable, keep away from heat and flame.

## 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 workers on farms, forests, 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 interval. 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 worker entry into treated areas during the restricted entry interval (REI) of 12 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, soils, or water is:

Clothing that avoids exposure of bare skin to product including:

- Long pants
- Socks
- Protective gloves
- Long-sleeved shirt
- Shoes

**INSECTICIDAL SOAP 49.52 CF** is an effective contact insecticide that is ideal for use in areas such as parks, restaurants, hospitals, school grounds, malls, and other public places, as well as in agriculture, horticulture, and greenhouses.

INSECTICIDAL SOAP 49.52 CF

**INSECTICIDAL SOAP 49.52 CF** effectively controls:

Adlegids	Aphids	Earwigs	Grasshoppers
Lace Bugs	Leafhoppers	Mealybugs	Plant bugs
Psyllids	Sawfly larvae	Scales	Spider Mites
Tent caterpillars	Thrips	Whiteflies	Woolly Aphids

**INSECTICIDAL SOAP 49.52 CF** offers effective insect control on a wide variety of cultivars in ornamental horticultural and agricultural settings:

Foliage Plants	Flowers	Fruits
Tree Nuts	Trees & Shrubs	Vegetables

**INSECTICIDAL SOAP 49.52 CF:**

- Can be applied up to time of harvest.
- Can be used as an effective component of integrated pest management programs.

For best results, use freshly mixed solution. Use soft water whenever possible. If water has a high mineral content and produces soap scale, pre-treat water with an approved softening agent or a pesticide compatibility agent before adding concentrate. To prevent or minimize foaming, avoid use of mechanical agitation, place filling hose below surface of spray solution, terminate bypass and return lines at bottom of tank; if needed, use approved antifoam or defoaming agent. **CAUTION:** Do not use on new transplants, newly rooted cuttings, or plants stressed by drought. Avoid application when leaf temperature exceeds 85°F.

**WHEN USED ALONE: INSECTICIDAL SOAP 49.52 CF** may be used up to and including day of harvest and is useful as a component of Integrated Pest management (IPM) systems.

Dilute at the rate of 2 gallons of concentrate to 100 gallons of water, except as noted in individual sections. Apply according to the rates and other directions given under the individual crop groupings. Spray should be applied to thoroughly wet all infested surfaces.

**WHEN COMBINED WITH OTHER PESTICIDES: INSECTICIDAL SOAP 49.52 CF** may be combined with other pesticides to broaden the target spectrum, improve the level of kill and enhance coverage. Such use should conform to accepted use precautions and directions for use of both products.

**INSECTICIDAL SOAP 49.52 CF** may be tank mixed by adding 1 gallon of concentrate per 100 gallons of spray containing the label amount of the companion pesticide or less, except where prohibited by local regulation. Products with which it may be tank mixed include, but are not limited to, *Bacillus thuringiensis*, pyrethrum, and a variety of petrochemical-based pesticides.

**INDOOR PLANTS:** Mix one part concentrate with 50 parts water, or 2.5 fl. oz. per gallon. Apply when insects or signs of their damage appear. Take care to thoroughly wet all surfaces of infested foliage or branches. For aphids examine plants after two days and spray again if needed. For other pests spray at 7 to 10 day intervals as needed up to three times. Do not make repeated sprays at short intervals without thoroughly rinsing foliage. For blossom thrips on African violets, spray to contact thrips on the blooms. Root mealybug and springtail infestations can be reduced using a soil drench of one to two table-spoons of concentrate in a quart of tepid water applied monthly.

**NOTE:** Do not use on Crown of Thorns and test on other euphorbias for phytotoxicity before full-scale application. Do not use on dracaena, delicate ferns, dieffenbachia, ornamental ivies, palms or succulents without testing.

**FLOWERS AND BEDDING PLANTS GROWING OUTDOORS AND IN GREENHOUSES:** including (but not limited to) foliage plants, roses and succulents. Mix two gallons of concentrate per 100 gallons of water or 2.5 fl. oz. per gallon. Apply when insects appear. Take care to thoroughly wet all infested surfaces. A second application should be timed to control newly hatched young. Repeat weekly as needed up to three times. For earwigs spray directly on insects after disturbing their hiding place.

**NOTE:** Do not use on bleeding heart, jade plant, lantana, lillies or sweet-peas. Some varieties of azaleas, begonias, camellias, fuschias, gardenias, orchids, and impatiens have shown sensitivity. If wilting occurs within a few hours rinse with clean water spray. Do not apply to poinsettias after bract coloration begins. Test on chrysanthemums for varietal sensitivity and do not apply to open blooms.

**INSECTICIDAL SOAP 49.52 CF** mixed 2 gallons per 100 gallons of water may be used as a soil drench to control listed pests in the growing medium of container grown plants.

**ORNAMENTAL LANDSCAPE TREES AND SHRUBS:** including (but not limited to) Christmas trees and ornamental plantings in parks, gardens and along rights-of-way. Mix two gallons of concentrate per 100 gallons water or 2.5 fl. oz. per gallon. To control the crawler stage of adelgids, psyllids, and scales spray to wet bark surface when infestation warrants. For mites and other listed pests, be sure to wet underside of leaves and needle sheaths. For tent caterpillars, mix 1 gallon of concentrate to 30 gallons of water or 4 fl. oz. per gallon and spray directly on young larvae when congregated on outside of tent.

To control Balsam Woolly Aphid on true firs (*Abies* spp.) mix one gallon of concentrate to 80 gallons of water or approximately 1.5 fl. oz. per gallon. Spray trees thoroughly when crawlers are abundant in early spring and/or fall. For best results make a second application after ten days.

To control Spruce Woolly Aphid mix 1 gallon of concentrate to 25 gallons of water or 5 fl. oz. per gallon. Spray spruce thoroughly in fall or spring before females begin egg laying; on Douglas fir spray before bud break or in the fall after foliage has hardened off.

To control Conifer Aphids, sawfly larvae and pine needle scale mix 1 gallon of concentrate per 40 gallons of water or 3 fl. oz. per gallon and spray to thoroughly wet foliage when insects are present.

**NOTE:** Do not apply to chestnut, Japanese maple, mountain ash, or Colorado blue spruce. Do not apply to ornamentals stressed by drought or when tender new foliage is present. Do not apply when leaf temperature exceeds 85°F. Test on *Arborvitae*, *Eugenia* and *Euonymus* for varietal and drought sensitivity. **INSECTICIDAL SOAP 49.52 CF** sprays may result in the temporary removal of the glaucous bloom from spruces. To suppress gypsy moth populations, prevent egg hatch by applying a spray solution of 1 quart concentrate to 3 quarts of water directly to egg masses; do not allow spray to contact plant foliage.

**VEGETABLES GROWING OUTDOORS AND IN GREENHOUSES:** Mix two gallons of concentrate to 100 gallons of water or 2.5 fl. oz. per gallon. Apply when insect or mite populations attain spray threshold. Spray to wet all infested plant surfaces. Application volume per acre sprayed will vary according to size and growth form of plants. Row crops will typically require 50 to 150 gallons of spray per acre. For most pests repeat application after several days to eliminate newly hatched individuals. Do not make more than three sequential applications over a two week period. May be used up to day of harvest.

**NOTE:** Do not apply during heat of the day or when leaf temperature exceeds 85°F.

**ROOT AND TUBER VEGETABLES:** including (but not limited to) carrot, potato, radish and sugar beet to suppress aphids, and control leafhoppers, plant bugs and whitefly. Use up to day of harvest.

**BULB VEGETABLES:** including (but not limited to) onion and garlic to suppress thrips. Use up to day of harvest.

**LEAFY VEGETABLES:** including (but not limited to) lettuce, celery and spinach to control whitefly and mites and to suppress aphids. Use up to day of harvest.

**BRASSICA (cole) LEAFY VEGETABLES:** including (but not limited to) broccoli, Brussels sprouts, cabbage, Chinese cabbage (bok choy) and kale to control leafhoppers, plant bugs and whitefly and to suppress aphids. Use up to day of harvest.

**NOTE:** Do not spray on crop prior to application of or tank mix with a topically applied liquid nitrogen fertilizer.

**LEGUME VEGETABLES:** including (but not limited to) beans, peas and soybeans to control aphids, grasshoppers, whitefly and spider mites. Use up to day of harvest.

**FRUITING VEGETABLES:** including (but not limited to) eggplant, pepper and tomato to control whitefly and spider mites and to suppress aphids. Use up to day of harvest.

**CUCURBIT VEGETABLES:** including (but not limited to) cucumber, melon and summer squash to control plant bugs and whitefly and suppress aphids and mites. Use up to day of harvest.

Always apply to cucumbers at night or during the coolest part of the day.

**HERBS AND SPICES:** including (but not limited to) basil, chives, dill, marjoram and sage to control whitefly and to suppress aphids and mites. Use up to day of harvest.

**FRUITS AND NUTS:** Mix two gallons of concentrate to 100 gallons of water or 2.5 fl. oz. per gallon. Spray when insects or mites first appear or when their populations attain spray level. Apply to achieve thorough coverage of infested foliage and /or branches. Repeat at weekly intervals as needed. Avoid spraying when blossoms are present. Use up to day of harvest.

**CITRUS FRUITS:** including (but not limited to) sweet orange, lemon and grapefruit to control aphids, cottony cushion scale, black scale, red scale and mites. Use up to day of harvest.

**NOTE:** Some marking of fruit may occur, especially when spray run-off occurs or when sooty mold is present.

**POME FRUITS:** including (but not limited to) apple and pear to control leafhoppers, scale crawlers, pear psylla, pear slug (Tenthredinidae) and to suppress aphids and mites. Use up to day of harvest.

**NOTE:** Spray may cause localized marking of some varieties particularly apple varieties such as red and golden delicious, Gravenstein, and pear varieties such as d'Anjou, Comice and Asian.

**STONE FRUITS:** including (but not limited to) cherry, peach and plums to control scale insects and suppress aphids and mites. Use up to day of harvest.

**NOTE:** Spray may cause localized spotting of nectarines and may remove wax bloom from plums.

**SMALL FRUITS AND BERRIES:** including (but not limited to) blackberry, coffee, cranberry, grape and strawberry to control leafhoppers, mealybugs, scales and whitefly and to suppress aphids and mites. Use up to day of harvest.

**NOTE:** Do not spray grapes during the period between the start of blooming and 2 to 3 days post shatter. Application made with dilute spray equipment (more than 75 gallons of spray per acre) and /or tank mixes containing sulfur may mark fruit of grapes; dilute applications are not recommended on varieties being grown for the fresh produce market including (but not limited to) flames, globes and perlettes as marking of fruits may occur. Do not use on Labrusca varieties or Italia and Calmeria varieties grown for the fresh market.

**TREE NUTS:** including (but not limited to) almond, English walnut and pecan to control scale crawlers and suppress aphids and mites. Use up to day of harvest.

**ADDITIONAL CROPS:** including (but not limited to) asparagus, coffee, cotton, and subtropical and tropical crops. Mix two gallons of concentrate to 100 gallons of water or 2.5 fl. oz. per gallon. To control aphids, whitefly and mites spray when insects appear and repeat at weekly intervals as needed. Do not use at intervals of less than seven days. Use up to day of harvest.

**NOTE:** Do not use on passion fruit or guava. Test for varietal sensitivity against other tropical fruits before full-scale application.

## POST-HARVEST APPLICATIONS

**INSECTICIDAL SOAP 49.52 CF** may be used alone or in tank mixes to control or suppress insect and mite pests of perennial crop plants after harvest has been completed.

Post-harvest applications provide a means of reducing residual populations, and are a useful component of IPM programs.

## STORAGE AND DISPOSAL

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

**Storage:** Store only in original container, in a dry place, inaccessible to children or pets. Do not store full or partial containers in direct sunlight. Keep container tightly sealed when not in use.

**Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**Container Disposal:** Do not reuse empty container. 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.