

# Specimen Label



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**For Use Only in Residential Settings for Evergreens, Greenhouse Crops, Vegetables, and Woody Shrubs. Controls Mealybug, Mites, Moths, Scale, Spotted Lantern Fly, and Whitefly.**

### Active Ingredient

Soybean Oil .....	93%
<b>INERT INGREDIENTS</b> .....	<b>7%</b>
<b>TOTAL</b> .....	<b>100%</b>

FIRST AID	
<b>If in Eyes</b>	<ul style="list-style-type: none"><li>Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>Call a poison control center or doctor for treatment advice.</li></ul>
<b>If on Skin or Clothing</b>	<ul style="list-style-type: none"><li>Take off contaminated clothing.</li><li>Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>Call a poison control center or doctor for treatment advice.</li></ul>
<b>If Swallowed</b>	<ul style="list-style-type: none"><li>Call a poison control center or doctor immediately for treatment advice.</li><li>Have person sip a glass of water if able to swallow.</li><li>Do not induce vomiting unless directed to do so by a poison control center or doctor.</li><li>Do not give anything by mouth to an unconscious person.</li></ul>
<b>If Inhaled</b>	<ul style="list-style-type: none"><li>Move person to fresh air.</li><li>If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth-to-mouth, if possible.</li><li>Call a poison control center or doctor for further treatment advice.</li></ul>
<b>HOTLINE NUMBER:</b> Have the product container or label with you when calling a poison control center or doctor or are going for treatment. For general information on product use, etc., call the National Pesticides Information Center at 1-800-858-7378. For emergencies, call the Poison Center at 1-800-222-1222.	
<b>FOR CHEMICAL EMERGENCY</b> Spill, leak, fire, exposure, or accident, call Corteva Agriscience at 1-800-992-5994.	

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

EPA Reg. No. 57538-11-62719

**Keep Out of Reach of Children**

# CAUTION

**CAUTION:** Harmful if swallowed, inhaled, or absorbed through skin. Causes moderate eye irritation. Avoid breathing spray mist. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse. Wear the appropriate Personal Protective Equipment (PPE).

### ENVIRONMENTAL HAZARDS

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 when disposing of equipment washwaters or rinsate.

### DIRECTIONS FOR USE

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

### GENERAL USE INSTRUCTIONS

Challenger™ is a pest oil product specifically designed to provide broad spectrum insect control. Challenger is formulated with soybean oil and may be utilized for insect control. Challenger is compatible with most fertilizer and pesticide materials, but always conduct a jar test when using an untried combination to ensure compatibility.

### MIXING DIRECTIONS

- Consult application rate tables to determine the appropriate amounts of Challenger and water to mix.
- Shake well before using.
- Fill the sprayer one-half full with water.
- Add the appropriate amount of Challenger.
- Agitate the mixture and then complete filling the sprayer with the required amount of water.
- If using small equipment lacking agitation, stir or shake diluted spray frequently during application.

### APPLICATION INSTRUCTIONS

Apply as a fine spray to thoroughly wet the surface of the plant leaves and stems. Avoid spraying to runoff. Spray volume needed will vary with the size of the crop sprayed.

Apply one application of Challenger to deciduous shrubs and trees in the dormant season to control scales and mites.

### SHADE TREE AND ORNAMENTAL PLANT RESTRICTIONS

Oil has the potential to remove the glaucous (blue) bloom from such evergreens as Colorado blue spruce and Koster spruce. Do not spray on walnut foliage. Use lower dosage on oil-sensitive plants such as Chamaecyparis, Cryptomeria, Japanese Holly, Juniper, Spruce, and Smoke Tree. Red Cedar and Douglas Fir have a tendency toward sensitivity.

### GREENHOUSE AND SHADEHOUSE

Although no problems with phytotoxicity have been seen at provided rates, the applicator is to conduct a phytotoxicity test on 1 or 2 of the specific plants to be treated. Determine application safety during the bloom period for each individual species of plant by conducting a small test.

### USE PRECAUTIONS

Keep oil container tightly closed in storage to prevent entry of water. Spray only when temperature is above 40°F and there is no danger of freezing. Avoid spraying when temperatures are excessively high and avoid spraying when plants are suffering from lack of moisture. Sensitive foliage is susceptible to injury.

**Spongy Moth and Spotted Lanternfly Egg Mass Instructions:** Use Challenger for application to spongy moth or spotted lanternfly egg masses to prevent hatch of eggs. Mix equal amounts of Challenger and water and apply to egg masses as a 50% mix. Make a new mix each day treatments are made. Treat egg masses that have been deposited on trees, ground litter, outdoor household articles, recreational vehicles, firewood, nursery stock, rocks, ships, boats, and other forms of transportation, or on other articles moved in interstate commerce.

With use of a small hand sprayer, treat individual egg masses until they are completely saturated with the spray solution. Keep the mix agitated while treating. Do not apply with mist blower. It is important that the egg mass is saturated with spray. Following treatment, egg masses can be left in place or removed and incinerated.

## APPLICATION RATES

Crops or Plants	Insects Controlled	Application Rate (Tablespoons Oil per Gal of Water)	Time of Application & Comments
Flower and foliage plants including azalea, begonia, bulbs, camellia, carnation, chrysanthemum, gardenia, geranium, hibiscus, impatiens, English ivy, marigold, pansy peony, philodendron, rose, and others	Aphids, certain caterpillars, mealybugs, scales (immature), spider mites, whiteflies (immature)	5	Apply once a week when insects first appear. Decrease the frequency as the pest is controlled.
Greenhouse and shade house crops such as azalea, camellias, gardenias, other nursery, ornamental plants, leaf polish for hardy houseplants	Aphids, fungus gnats, lace bugs, leaf miners, mealybugs, scale insects, spider mites, whiteflies, whitefly larvae	3 to 5	Apply once a week when insects first appear. Decrease the frequency as the pest is controlled. Use the lower rate as a leaf polish.

Crops or Plants	Insects Controlled	Application Rate (Tablespoons Oil per Gal of Water)	Time of Application & Comments
Shade trees and ornamentals including conifers, deciduous broadleaf evergreens, woody ornamentals, azalea, dogwood, flowering cherry, flowering crab, euonymus, holly, hawthorn, juniper, lilac, pines, privet, rhododendron rose, spirea	Aphids, adelgids, certain caterpillars, gall mites, lace bugs, leaf beetle larvae, mealybugs	5 to 8	Apply once a week during the growing period when insects first appear. Decrease the frequency as the pest is controlled.
Shade trees and ornamentals as above	Plant bugs (immature), psyllids (immature), sawfly larvae, scales (immature), spider mites, whiteflies (immature)	8	Dormant
Vegetables such as asparagus, beans, beets, cabbage, cauliflower, celery, corn, cucurbits, eggplant, lettuce, melon, peas, potatoes, peppers, squash, tomatoes	Aphids, mites, beetle larvae, leaf miners, certain caterpillars, psyllids, whiteflies, leafrollers, armored scale, soft scale, mealybugs, webworms, cankerworms, plant bugs, leafhoppers, thrips	3	Apply once a week when insects first appear. Decrease the frequency as the pest is controlled.

### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

**Pesticide Storage:** Keep container tightly closed when not in use.

**Pesticide Disposal:** If partly filled, call your local solid waste agency or 1-800-CLEANUP for disposal instructions. Never place unused product down any indoor or outdoor drain.

**Container Disposal:** Nonrefillable container. Do not reuse or refill this container. Place in trash or offer for recycling if available.

(such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of Corteva Agriscience or the seller. To the extent consistent with applicable law, Corteva Agriscience will not be responsible for losses or damages resulting from the use of this product in any manner not specifically directed by Corteva Agriscience. To the extent consistent with applicable law, all such risks associated with non-directed use shall be assumed by buyer and/or user.

### Limitation of Remedies

To the extent consistent with applicable law, the exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, tort, strict liability, or other legal theories) shall be limited to, at Corteva Agriscience's election, one of the following:

1. Refund of purchase price paid by buyer or user for product bought, or
2. Replacement of amount of product used.

To the extent consistent with applicable law, Corteva Agriscience shall not be liable for losses or damages resulting from handling or use of this product unless Corteva Agriscience is promptly notified of such loss or damage in writing. To the extent consistent with applicable law, in no case shall Corteva Agriscience be liable for consequential, incidental, or special damages or losses.

The terms of the Warranty Disclaimer, Inherent Risks of Use, and this Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employee or sales agent of Corteva Agriscience or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner.

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**Manufactured for**  
**Corteva Agriscience LLC**  
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**Indianapolis, IN 46268**

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### Terms and Conditions of Use

If terms of the following Warranty Disclaimer, Inherent Risks of Use and Limitation of Remedies are not acceptable, return unopened package at once to the seller for a full refund of purchase price paid. To the extent consistent with applicable law, use by the buyer or any other user constitutes acceptance of the terms under Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies.

### Warranty Disclaimer

Corteva Agriscience warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions for use, subject to the inherent risks set forth below. To the extent consistent with applicable law, Corteva Agriscience MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

### Inherent Risks of Use

It is impossible to eliminate all risks associated with use of this product. Crop injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.), abnormal conditions