

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%
INERT INGREDIENTS	7%
TOTAL	100%

FIRST AID

If in Eyes	<ul style="list-style-type: none">• 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 on Skin or Clothing	<ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15-20 minutes.• Call a poison control center or doctor for treatment advice.
If Swallowed	<ul style="list-style-type: none">• Call a poison control center or doctor immediately for treatment advice.• Have person sip a glass of water if able to swallow.• Do not induce vomiting unless directed to do so by a poison control center or doctor.• Do not give anything by mouth to an unconscious person.
If Inhaled	<ul style="list-style-type: none">• Move person to fresh air.• If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth-to-mouth, if possible.• Call a poison control center or doctor for further treatment advice.

HOTLINE NUMBER: 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.

FOR CHEMICAL EMERGENCY:

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.

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

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

1. Consult application rate tables to determine the appropriate amounts of Challenger and water to mix.
2. Shake well before using.
3. Fill the sprayer one-half full with water.
4. Add the appropriate amount of Challenger.
5. Agitate the mixture and then complete filling the sprayer with the required amount of water.
6. 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 reduce the numbers of eggs hatching or limiting overall eggs' survivorship. Mix equal amounts of Challenger and water at a 1:1 ratio or 1 part Challenger and 1 part water. Target application directly to egg masses. It is important that the egg masses are saturated with the mixture. Avoid directing applications outside of the target area (eggs, egg masses). After product and water have been mixed thoroughly, proceed to 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. Do not apply product directly to foliage, buds or any reproductive parts of the plant. Keep continuous agitation and spray product on the same day that mixture with water was prepared.

With use of a small hand sprayer, treat individual egg masses until they are completely covered with the spray solution. Keep continuous agitation of the mix while treating. Do not apply with mist blower.

APPLICATION RATES

Crops or Plants	Insects Controlled	Application Rate (Tablespoons Oil/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/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. Do not store in direct sunlight. Absorb spills with dry absorbent and dispose of as directed below.

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

Container Handling: Non-refillable container. Do not reuse or refill this container. Clean container promptly after emptying.

Non-refillable container equal to or less than 5 gallons (19 L).

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. 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.

Non-refillable container greater than 5 gallons (19 L). Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. 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.

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 (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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Corteva Agriscience LLC
9330 Zionsville Road
Indianapolis, IN 46268

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Revisions:

- Revised Spongy Moth and Spotted Lanternfly Egg Mass Instructions.
- Updated Storage and Disposal instructions.