



# Citrus Soluble Oil-Medium

## INSECTICIDE

<b>ACTIVE INGREDIENT:</b>		<b>BY WT.</b>
Mineral Oil*	.....	<b>99.30%</b>
<b>INERT INGREDIENTS:</b>	.....	<b>0.70%</b>
	<b>TOTAL</b>	<b>100.00%</b>

\*Contains petroleum distillates

**Classification—Medium**  
**Unsulphonated Residue—92% Minimum**

**KEEP OUT OF REACH OF CHILDREN**  
**CAUTION**

**See Below For Additional Precautionary Statements.**

<b>FIRST AID</b>	
<b>If swallowed:</b>	<ul style="list-style-type: none"> <li>• Immediately call a poison control center or doctor.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give any liquid to the person.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<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 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 by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<p><b>FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-866-944-8565.</b>            Have the product container or label with you when calling a poison control center or doctor, or going for treatment.</p> <p><b>NOTE TO PHYSICIAN:</b> Petroleum distillate poses aspiration pneumonia hazard.            Only minor irritation should be expected from any type of exposure other than pulmonary aspiration. Ingestion may result in some gastroenteritis and mild diarrhea.</p>	

**EPA REG. NO. 34704-396**  
**EPA EST. NO. 011800-CA-004**  
**NET CONTENTS 2½ GALS. (9.46 L)**

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**CITRUS SOLUBLE OIL - MEDIUM**  
**EPA REG. NO. 34704-396**  
**PRECAUTIONARY STATEMENTS**  
**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**  
**CAUTION**

Harmful if swallowed. Avoid inhalation of spray mist.

**Personal Protective Equipment (PPE):**

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

**Mixers, loaders, applicators, flaggers and other handlers must wear:**

- Long-sleeved shirt and long pants,
- Shoes plus socks, and
- Chemical-resistant gloves made of barrier laminate, nitrile rubber, neoprene rubber or viton.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

**Engineering controls statements:**

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets with requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

Enclosed cockpits: Pilots must use an enclosed cockpit that meets the requirements listed in the WPS for agricultural pesticides [40 CFR 170.240(d)(6)].

**USER SAFETY RECOMMENDATIONS**

**Users should:**

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE 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.

**ENVIRONMENTAL HAZARDS**

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 washwater or rinsate. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas.

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

Avoid application of oil sprays just prior to or during hot weather, rainy weather or drying winds. Apply when temperature is above 40°F. Do not apply just prior to freezing weather. Use only when trees are in healthy condition, and when moisture conditions are sufficient. Avoid overspraying.

**CITRUS SOLUBLE OIL - MEDIUM**  
**EPA REG. NO. 34704-396**

Do not use in a manner or at a time other than in accordance with label directions because animal, plant or crop injury, illegal residues or other undesirable results may occur.

**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 4 hours.** PPE required for early entry to treated areas that is permitted under the Work Protection Standard and that involves contact with anything that has been treated, such as soil or water, is:

- Coveralls,
- Shoes plus socks, and
- Chemical-resistant gloves made of any waterproof material.

Apply when pests first appear. Do not use in undiluted form.

Use efficient equipment of the proper type. Avoid spraying during or immediately prior to hot or freezing weather, hot dry winds, rain or other unsuitable condition. Avoid overspraying or double spraying. Plants should be sprayed only when in vigorous condition and when their moisture condition is suitable.

Do not make an oil spray application within 2 weeks prior to or after an application of sulfur on olives. On Citrus in California do not make an oil application within 60 days prior to or after an application of sulfur. Do not apply prior to or during period of excessively high summer temperatures.

**MIXING DIRECTIONS:** Before using this product, be sure the spray tank is clean and contains just enough water to cover the agitator shaft. If an injector is used, first add 25 to 50 gallons of water to tank with engine running to provide good pressure. Then put injector suction tube into the measured amount of spray oil, opening injector valve to allow the oil to be sucked into the tank. Then fill the tank with water. With enough water in tank to cover agitator shaft and with shaft in motion, add desired amount of this material for full tank. Pump this mixture through the overflow and back into tank for about two minutes to insure proper emulsification. Fill with water, adding other desired materials as tank is filling. Keep agitator running at all times. Sufficient agitation must be present to insure proper emulsification at all times.

**Do not use if material does not emulsify.**

**SPRAY DRIFT MANAGEMENT**

A variety of factors including weather condition (e.g., wind direction, wind speed, temperature inversions, relative humidity) and method of application (e.g., ground, aerial, airblast) can influence pesticide drift. The applicator and grower must evaluate all factors and make appropriate adjustments when applying this product.

**Wind Speed:** Do not apply at wind speeds greater than 15 mph at the application site.

**Temperature Inversions:** If applying at wind speeds less than 3 mph, the applicator must determine if a) conditions of temperature inversion exist, or b) stable atmospheric conditions exist at or below nozzle height. Do not make applications into areas of temperature inversions or stable atmospheric conditions.

**Droplet Size:** Apply as a medium or coarser spray (ASABE standard 572), and the minimum volume diameter (VMD) for spinning atomizer nozzles.

**GROUND APPLICATIONS**

**Release Height:** Apply using a nozzle height of no more than 4 feet above the ground or crop canopy.

**Wind Speed:** Do not apply at wind speeds greater than 15 mph at the application site.

**CITRUS SOLUBLE OIL - MEDIUM  
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**Droplet Size:** Apply as a medium or coarser spray (ASABE standard 572), and the minimum volume diameter (VMD) for spinning atomizer nozzles.

**AIRBLAST APPLICATIONS**

For airblast applications, turn off outward-pointing nozzles at row ends and when spraying outer row. To minimize spray loss over the top in orchard applications, spray must be directed into the canopy.

**AERIAL APPLICATIONS**

**Release Height:** For aerial applications of agricultural products, do not release spray at a height greater than 10 feet above the ground, top of crops, or above the orchard canopy.

**Boom Length:** The boom length must not exceed 75% of the wingspan or 90% of the rotor blade diameter.

**Swath Adjustment:** When applications are made with a cross-wind, the swath will be displaced downwind. The applicator must compensate for this displacement at the downwind edge of the application area by adjusting the path of the aircraft upwind. Leave at least one swath unsprayed at the downwind edge of the treated field.

**Wind Speed:** Do not apply at wind speeds greater than 15 mph at the application site.

**Droplet Size:** Apply as a medium or coarser spray (ASABE standard 572), and the minimum volume diameter (VMD) for spinning atomizer nozzles.

**CITRUS: (California Only)—Grapefruit, Lemons, Oranges (Navel and Valencia), Tangelos, and Tangerines.**

<b>PEST</b>	<b>APPLICATION RATE</b>	<b>COMMENTS</b>
Mites —Citrus Red —Citrus Rust	Apply 1½ to 2 gals./100 gals. of water as a thorough coverage spray (TC) or 1 to 10 gals./acre.	For Lemons, Grapefruit, Oranges (Navels and Valencias), Tangelos and Tangerines.
Scale Insects —Brown Soft —Citricola —Purple —Red —Yellow	Apply up to 10 gals./acre on bearing trees up to 10 feet in height. Add 1 gal. of oil per acre for each foot of tree height over 10 feet.	

**OLIVES:**

<b>PEST</b>	<b>APPLICATION RATE</b>	<b>COMMENTS</b>
Scale Insects —Black —Oleander —Olive —Parlatoria	Apply 1½ to 2 gals./100 gals. of water as a thorough coverage spray (TC).	

**CITRUS SOLUBLE OIL - MEDIUM**  
**EPA REG. NO. 34704-396**

**CITRUS: (Florida Only)—Grapefruit, Lemons, Limes, Oranges, Tangelos and Tangerines.**

<b>PEST</b>	<b>APPLICATION RATE</b>	<b>COMMENTS</b>
Citrus Rust Mite	10 gals./acre	Does not control citrus Snow Scale.
Spider Mites	5 gals./acre.	
Scale Insects	5 gals./acre + 6 pints	Summer spray only.
—Black Soft	Ethion 4EC.	Observe all applicable precautions on
—Brown Soft		Ethion label. Do not apply to Navel
—Chaff		oranges.
—Glover		
—Purple		
—Red		
—Yellow		
Scale Insects	10 gals./acre.	
—Black Soft		
—Brown Soft		
—Chaff		
—Glover		
—Purple		
—Red		
—Yellow		
Whitefly	5 gals./acre.	

**Rate Limitations on Applications to Citrus Crops:** Maximum of 159 pounds active ingredient per acre (maximum 1500 gallons of spray mix per acre) in Florida, and 212 pounds active ingredient per acre (maximum 2000 gallons of spray mix per acre) in California (based on Thorough Coverage Spray, with 1.5 gallons of product mixed in 100 gallons of water).

Improved efficacy may be obtained when the oil is added to a partially filled spray tank under proper agitation and all foliage is thoroughly covered.

Precautions in the use of oil include: Do not apply oil spray when trees are wilting. Do not apply oil and sulfur within 3 weeks of each other in Florida. Oil spray applied after October 1 may increase susceptibility of trees to cold damage and may reduce the fruit crop the following year. Oil sprays applied in the fall may inhibit solids formation in the juice and retard coloring of fruit and should not be applied within 60 days of anticipated harvest. Sensitive foliage may be injured.

Consult the Florida Citrus Spray and Dust Schedule, or your Agricultural Experiment Station or State Extension Service Specialist for complete details on the spraying program best suited to your locale.

The formulation of this product is compatible with wettable powder materials such as Malathion 25 Spray, and products used for the correction of minor element deficiencies.

**CITRUS SOLUBLE OIL - MEDIUM**  
**EPA REG. NO. 34704-396**

**STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE:** Store in a cool, dry area, away from heat and open flame.

**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**

**Nonrefillable container:** Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. Once cleaned, some agricultural plastic pesticide containers can be taken to a container collection site or picked up for recycling. To find the nearest site, contact your chemical dealer or manufacturer, or contact The Agricultural Container Recycling Council (ACRC) at [www.acrecycle.org](http://www.acrecycle.org). If not recycled, then 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. Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

**For packages up to 5 gallons: 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  $\frac{1}{4}$  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. **Pressure rinse as follows:** Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

**For packages greater than 5 gallons and less than 56 gallons: Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank. Fill the container  $\frac{1}{4}$  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. **Pressure rinse as follows:** Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

**For packages greater than 56 gallons:** To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

**For refillable containers:** Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Offer for recycling or reconditioning, if available, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

**For help with any spill, leak, fire or exposure involving this material, call day or night CHEMTREC – 1-800-424-9300.**

**CITRUS SOLUBLE OIL - MEDIUM  
EPA REG. NO. 34704-396**

**CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY**

**BEFORE BUYING OR USING THIS PRODUCT**, read the entire Directions for Use and the following Conditions of Sale and Limitation of Warranty and Liability. By buying or using this product, the buyer or user accepts the following Conditions of Sale and Limitation of Warranty and Liability, which no employee or agent of LOVELAND PRODUCTS, INC. or the seller is authorized to vary in any way.

Follow the Directions for Use of this product carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop or other plant injury, ineffectiveness, or other unintended consequences may result from such risks as weather or crop conditions, mixture with other chemicals not specifically identified in this product's label, or use of this product contrary to the label instructions, all of which are beyond the control of LOVELAND PRODUCTS, INC. and the seller. The buyer or user of this product assumes all such inherent risks.

Subject to the foregoing inherent risks, LOVELAND PRODUCTS, INC. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use when the product is used in strict accordance with such Directions for Use under normal conditions of use. EXCEPT AS WARRANTED IN THIS LABEL AND TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THIS PRODUCT IS SOLD "AS IS," AND LOVELAND PRODUCTS, INC. MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ELIGIBILITY OF THIS PRODUCT FOR ANY PARTICULAR TRADE USAGE.

IN THE UNLIKELY EVENT THAT BUYER OR USER BELIEVES THAT LOVELAND PRODUCTS, INC. HAS BREACHED A WARRANTY CONTAINED IN THIS LABEL AND TO THE EXTENT REQUIRED BY APPLICABLE LAW, BUYER OR USER MUST SEND WRITTEN NOTICE OF ITS CLAIM TO THE FOLLOWING ADDRESS: LOVELAND PRODUCTS, INC., ATTENTION: LAW DEPARTMENT, P.O. BOX 1286, GREELEY, CO 80632-1286.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE BUYER'S OR USER'S EXCLUSIVE REMEDY FOR ANY INJURY, LOSS, OR DAMAGE RESULTING FROM THE HANDLING OR USE OF THIS PRODUCT, INCLUDING BUT NOT LIMITED TO CLAIMS OF BREACH OF WARRANTY OR CONTRACT, NEGLIGENCE, STRICT LIABILITY, OR OTHER TORTS, SHALL BE LIMITED TO ONE OF THE FOLLOWING, AT THE ELECTION OF LOVELAND PRODUCTS, INC. OR THE SELLER: DIRECT DAMAGES NOT EXCEEDING THE PURCHASE PRICE OF THE PRODUCT OR REPLACEMENT OF THE PRODUCT. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, LOVELAND PRODUCTS, INC. AND THE SELLER SHALL NOT BE LIABLE TO THE BUYER OR USER OF THIS PRODUCT FOR ANY CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES, OR DAMAGES IN THE NATURE OF A PENALTY.

**FORMULATED FOR  
LOVELAND PRODUCTS, INC.  
P.O. BOX 1286, GREELEY, COLORADO 80632-1286**