



HI SUPREME SPRAY OIL

ACCEPTED
 JAN 25 2007
 Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 71058-2

Active Ingredient: Petroleum oil 98.0 %
 Inert Ingredients:.....2.0 %

TOTAL.....100.0 %

Minimum Unsulfonated Residue ...93 %

Keep out of Reach of Children
CAUTION

See Below for Additional Precautionary Statements

EPA Reg. No. 71058 - 2
 EPA Est. No. _____

Net Contents _____ Gallons

	<ul style="list-style-type: none"> eye. Call poison control center or doctor for treatment advice.
If on skin	<ul style="list-style-type: none"> Take off contaminated clothing. Rinse skin with plenty of water for 15 -20 minutes. Call poison control center or doctor for treatment advice.
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 by mouth to mouth if possible Call poison control center or doctor for treatment advice.
<p>Note to Physician Contains Petroleum Distillate - Vomiting may cause aspiration pneumonia</p>	

First Aid Caution	
Have product container or label with you when calling a poison control center or doctor or going for treatment.	
If swallowed	<ul style="list-style-type: none"> Call poison control center or doctor immediately for treatment advice. Do not induce vomiting unless told to by poison control center or doctor. Do not give any liquid to a person. Do not give anything to an unconscious person.
If in eyes	<ul style="list-style-type: none"> Hold eye open and rinse slowly and gently with plenty of water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.

Precautionary Statements
Hazards to Humans and Domestic Animals

Harmful if Swallowed - Wash thoroughly with soap and water after handling. Avoid breathing spray mist. Remove contaminated clothing and wash thoroughly before reuse.

Physical or Chemical Hazards
 Do not store, use or spill near heat or open flame. Do not weld, heat or drill container. Residue may ignite with explosive violence if heated sufficiently.

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 E on an EPA chemical resistance category selection chart.
 Applicators and other handlers must wear:

- 1. Long-sleeved shirt and long pants.
- 2. Chemical-resistant gloves, such as barrier laminate or nitrile rubber or neoprene rubber or viton.
- 3. Shoes plus socks.

Follow manufacturer's instructions for cleaning and 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:

- 1. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- 2. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

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 main high water mark. Do not contaminate water when disposing of equipment wash waters.

Chemigation Prohibition

DO NOT apply this product through any type of irrigation system.

Directions for Use

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

Do not apply 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 of training, decontamination, notification, and emergency assistance.

It also contains specific instructions and exceptions pertaining to the statements on this label about personnel protective equipment 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 worker entry into treated areas during the restricted-entry interval (REI) of 4 hours.

PPE required of early entry to treated areas that is permitted under the Worker Protection Standard and that involve contact with anything that has been treated such as plants, soil, or water is:

- 1. Coveralls
- 2. Chemical-resistant gloves, such as barrier laminate or nitrile rubber or neoprene rubber or viton.
- 3. Shoes plus socks

Storage and Disposal

Do not contaminate water, food or feed by storage or disposal. Keep container closed when not in use. Protect from freezing. Keep in shade. In case of spill or leak on floor or paved surfaces, soak up with sand, earth, or synthetic absorbent.

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: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in sanitary landfill, or by other approved State and local procedures.

Use Recommendations

GENERAL INFORMATION

HI Supreme Spray Oil is narrow range petroleum spray oil designed for use on stone fruits, nut crops, pome fruits, citrus, vine crops, tropical fruits and ornamentals as a foliar or dormant/delayed dormant application. Total coverage of all parts of plants is required for optimum results. Application rates for dilute sprays (greater than 150 gallons spray solution per acre) are listed as gallons of spray oil per 100 gallons of water per acre. Concentrate applications (usually from 20 to 150 gallons per acre), are based upon dilute spray conversion of rate per acre x highest volume applied per acre. Aerial applications are recommended only when weather conditions do not allow ground application. Apply recommended dose by air in a minimum of 20 gallons per acre. Optimum spray gallonage per acre is based upon tree or plant size, planting density, and stage of growth.

Mixing Instructions

Fill spray tank with $\frac{1}{2}$ the required amount of water. Add micronutrients and other compatible pesticides. If dry products are used, start agitation and mix thoroughly with water before adding oil to the spray tank. Add spray oil and continue with vigorous agitation. HI Supreme Spray Oil is formulated as a "fast break" spray oil, and will not stay in solution unless agitated constantly. Maintain agitation of the spray mixture until it has been applied. **DO NOT USE THIS MATERIAL IF IT DOES NOT EMULSIFY.**

Use Restrictions

Summer Sprays

- **DO NOT COMBINE WITH SULFUR SPRAYS and DO NOT APPLY** spray oil within 30 days before or after an application of sulfur. Application during foliage stage within 30 days of a sulfur application will result in phytotoxicity.
- **DO NOT** use on foliage closer than 60 days after or 90 days before using captan or folpet products.
- **DO NOT MIX** with insecticides or fungicides incompatible with oil. Consult your State Agricultural Extension Service for specific compatibilities.
- **DO NOT APPLY** to trees weakened by disease, drought, drying winds, or high nitrogen applications.
- **DO NOT APPLY HI SUPREME SPRAY OIL** prior to or during a period of excessively hot temperatures ($> 90^{\circ}$ F).
- **MAINTAIN CONSTANT VIGOROUS AGITATION** during application to keep spray oil and water in solution.
- **MULTIPLE CONCENTRATE APPLICATIONS** may cause plant injury or delayed bud development. Avoid double applications on the ends of crop rows when turning application equipment.

Dormant Sprays

- **DO NOT COMBINE** dormant spray oil with SULFUR or LIME SULFUR unless the mixture has been tested on the crop and the mixture has been shown to be safe. Oil and Sulfur or lime sulfur combinations **SHOULD ONLY** to be used on **DORMANT CROPS**.
- **DO NOT USE HI SUPREME SPRAY OIL** when temperatures are below 32° F (usually nighttime lows). Apply to crops when temperatures have warmed above 35° F and crop is free of moisture of melting frost or heavy dew
- **DO NOT MIX** with insecticides or fungicides incompatible with oil. Consult your State Agricultural Extension Service for specific compatibilities
- **DO NOT APPLY** to trees weakened by disease, drought, drying winds, or high nitrogen applications

- MAINTAIN CONSTANT VIGOROUS AGITATION during mixing and application to keep spray oil and water in solution.
- CONCENTRATE APPLICATIONS can delay bud development

Spreader – Sticker on all Citrus Varieties

This product may be used as a spreader – sticker with a suitable insecticide or miticide at a rate not to exceed 1.0%. Do not use when freezing temperatures are expected. Care should be taken in combining oil sprays with certain miticides and insecticides due to possible increased phytotoxicity when applied on foliage. See Agricultural Extension Service for recommendations on special combinations

FRUIT, VINE AND NUT CROPS

Crops	Pests	Foliar Application	Dormant or Delayed Dormant Application	Further Use Instructions
APPLES, ALMONDS, APRICOTS, CHERRIES, NECTARINES, OLIVES, PEACHES, PEAR, PISTACHIOS PLUMS, PRUNES, WALNUTS	San Jose Scale, Brown Apricot Scale, Italian Pear Scale, Parlatoria Scale, Oleander Scale, Pear Psylla, Aphids, Mites Parthenolecanius Soft Scale on pistachios	Dilute: Apply 200 – 800 gallons of spray solution using 0.5 - 1.5 gallons of oil per 100 gallons of water. Concentrate: 5- 8 gallons per acre in minimum 50 gallons per acre	Dilute: Apply 200 – 800 gallons of spray solution using 1 – 1.5 gallons of oil per 100 gallons of water. For apples and pears, apply from 2 – 4 gallons of oil per 100 gallons of water. Concentrate: 5- 8 gallons per acre in minimum 50 gallons per acre	Do not apply to oil sensitive varieties due to fruit russetting or phytotoxicity to plant foliage or wood. For use on pistachios, apply as a dormant and/or post harvest treatment. Apply at the rate of 100 to 400 gallons of finished spray mix per acre. For pistachios in AZ, apply 4 gallons of oil per acre. In CA, apply up to 6 gallons of oil per acre.
CITRUS (ORANGES, GRAPEFRUIT, LEMONS, LIMES AND OTHER CITRUS VARIETIES)	Red Scale, Yellow Scale, Purple Scale, Black Scale, Citrocola Scale, Brown Soft Scale, Citrus Red Mite, Pacific Spider Mite, Citrus Bud Mite, Two-spotted Spider Mite	Dilute: Apply 500 – 2000 gallons of spray solution using 1.2 – 1.4 gallons of oil per 100 gallons of water. Concentrate: Apply 10- 20 gallons per acre in a		For Oranges, Grapefruit, Limes and other citrus in Central California and in Southern California and Oxnard Plains, Apply May through September. Do not use on navel oranges after September 1. For Lemons in Southern California – apply in April and May and/or September through December. In Coastal counties apply March through early November.

Crops	Pests	Foliar Application	Dormant or Delayed Dormant Application	Further Use Instructions
		<p>minimum of 50 gallons of water per acre. Spray droplets should be discharged into an air stream pattern of high velocity (above 100 mph) with sufficient volume to carry spray through the tree canopy.</p> <p>Ground speed should not exceed 1.5 mph.</p>		<p>The higher dosage is recommended for heavier infestations in early fall.</p> <p>To aid in control of Red, Black, Yellow, or Purple Scale add a suitably labeled insecticide. Care should be taken in combining oil sprays with certain miticides and insecticides due to possible increased phytotoxicity when applied over foliage.</p>
YOUNG NON-BEARING CITRUS	Mites	Dilute: Apply 100 – 400 gallons of spray solution using 1.2 gallons of oil per 100 gallons of water		Apply during spring, late summer, and fall months.
AVOCADOS	Mites and Thrips	<p>Dilute: Apply using 400 – 3000 gal of spray per acre using 1-4 gallons of oil per 100 gallons of water.</p> <p>Concentrate: Use 1 – 18 gallons of oil per acre in 50 – 100 gallons of spray mixture. Use enough spray mixture for thorough coverage</p> <p>Aerial: Use 1-18 gallons of</p>		<p>Do not exceed 30 gal of oil per acre per application.</p> <p>When the application of oil is more than 2% vol/vol, do a small test area and allow enough time for adverse symptoms to develop before treating the larger block.</p>

Crops	Pests	Foliar Application	Dormant or Delayed Dormant Application	Further Use Instructions
		oil per acre in 20 – 100 gallons of spray		
GRAPES (except in CA.)	Mealybug	1 – 1.5 gallons per 100 gallons Concentrate: 1 gallon to a maximum of 3 gallons oil per acre in a minimum of 50 gallons of water per acre.		Use 100-300 gallons per acre. Apply with ground equipment only. Oil can temporarily affect surface bloom appearance but will not cause subsurface injury. Oil should not be applied within two days of harvest to grapes grown for fresh market. DO NOT use Propargite (Omite) within 40 days following oil application. DO NOT apply oil within 30 days of a Propargite (Omite) application. DO NOT combine with sulfur sprays past dormant stage. Applications made within 30 days before or after sulfur application will result in phytotoxicity.
GRAPES (CA)	Mealybug	Dilute: 4 – 6 gallons of oil in 100 gallons of water (For post harvest Fall spray use only)	1-6 gallons of oil in 100 gallons of water plus the appropriate label rate of insecticide registered for use on grapes	Use in 100 – 300 gallons of water per acre.
ORNAMENTALS & SHADE TREES (Conifers, Holly, Pyracantha, Sycamore, Hawthorne, Flowering Peach, Flowering Cherry, Apple, Roses, Magnolia, Dogwood, Oak, Privet, Birch)	Black Scale, Brown Apricot Scale, Oyster Shell Scale, San Jose Scale, Soft Brown Scale, Red Spider Mites and Eggs, Aphids, Adelgids, Certain Caterpillars, Eriophyd Mites, Gall Mites, Lace Bug, Leaf Beetle larvae, Leafminer, Mealybug, Psyllids (immature),	Apply 100 – 250 gallons of spray solution using 0.5 – 1.0 gallons of oil per 100 gallons of water	2 – 3 gallons	Conifer applications to Blue Spruce and Blue Juniper varieties may cause discoloration. May cause injury to Arborvitae and other cedars. Do not use on conifers or other ornamental plants not tolerant to oil sprays. Do not use dormant sprays on broadleaf evergreens such as Rhododendron, Cherry Laurel, Holly, Ivy, Azalea or Oregon Grape. In colder climates Cotoneaster, Barberry and Yews may be sensitive. Do not spray dormant sprays below 35° F. If handgun has not been

Crops	Pests	Foliar Application	Dormant or Delayed Dormant Application	Further Use Instructions
	Sawfly, Whiteflies (immature)			used for twenty minutes or longer, recirculate back into tank until hose is flushed. Caution Dormant Spray: Recommended minimum of 2 week intervals for dormant sprays. Do not spray dormant sprays when buds have fully formed, and shoot elongation is occurring. Do not spray dormant sprays when leaves are in obvious moisture deficit or plants are under stress Reduce rate to 2 gallons/100 water for Fall dormant applications to only: American Red Oak, Japanese Black Pine, Dogwood, Weeping Cherry, Comelina Cherry, Crab Apple, Norway Maple, Pure Leaf Plum. Keep away from open blooms – spotting has been observed with oil use on open blooms of certain varieties.
Christmas Trees	Aphids, adeligids, Scales (soft and hard immature), Spider Mites	1 – 3 gallons	2 – 4 gallons	

HOPS (except in CA)	Hop Powdery Mildew	Concentrate: 1 – 2 gallons in 100 gallons of water		Use 50-150 gallons of spray per acre depending on plant size to achieve thorough coverage. Apply with ground equipment only. Caution: DO NOT use Propargite (Omite) within 40 days following an oil application. DO NOT apply oil within 30 days of a Propargite (Omite) application. DO NOT combine with sulfur sprays. Applications made within 30 days before of after sulfur applications will result in phytotoxicity.
FIGS	Fig Scale		Dilute: Apply 2-3 gallons per 100 gallons Concentrate: Apply 3 gallons per acre	For dormant or delayed dormant only

KIWIFRUIT (California only)	Latania Scale, Greedy Scale, Oleander Scale, San Jose Scale		Concentrate: Apply 4-6 gallons per acre --	Use in minimum of 100 gallons of water per acre. Use higher rate where scale populations are high. Do not apply after budbreak. Do not use on weak or stressed vines, or where soil moisture is inadequate.
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NOTICE

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