

SUNSPRAY® 11E

A superior horticultural spray oil for insect and mite pest management

Active Ingredient: Refined Petroleum Distillate*	98.8 wt%
Inert Ingredient: Emulsifier	1.2 wt%
	100.0 wt%
*Unulfonated Residue of Petroleum Distillate	92.0 % Min
*50% Distillation Point of Petroleum Distillate	468.0 °F
*Flash Point	375.0 °F
Weight per Gallon	7.2 lbs.

CAUTION: KEEP OUT OF REACH OF CHILDREN

Statement of Practical Treatment

If swallowed: Do not induce vomiting.
Call a physician immediately.

If on skin: Wash with soap and water.

If in eyes: Flush with water.

If inhaled: Move to fresh air.

See additional Precautionary Statements inside booklet.

EPA Registration No. 862-9



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PRECAUTIONARY STATEMENTS

Hazards to humans & domestic animals

Caution. Avoid contact with eyes, skin and clothing. Harmful if swallowed. Avoid breathing of spray mists or vapors. Avoid contamination of food or foodstuffs.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks

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.

Environmental Hazards

This product is toxic to fish. 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 wastes. Do not contaminate water when disposing of equipment washwaters. Apply this product only as specified on this label.

STORAGE AND DISPOSAL

- 1. Prohibitions:** Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.
- 2. Storage:** Store in a cool, dry, locked area out of the reach of children. Keep oil container tightly closed in storage to prevent entry of water.

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

4. Container Disposal: Metal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. Plastic: 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.

LIMITED WARRANTY AND LIABILITY

This product conforms to the description and is suitable for the uses set forth on this label but is strictly limited to those uses solely as directed under the specified label conditions, and only if purchased in the original unopened container. SELLER DISCLAIMS ANY AND ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THOSE RELATING TO MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE. Buyer and all users shall assume all risk, liability and damage if this product is used, stored, handled or applied other than as specifically set forth on this label. SELLER'S LIABILITY AND BUYER'S OR USER'S REMEDIES SHALL BE LIMITED TO REFUND OF THE PURCHASE PRICE OR REPLACEMENT OF THE SPECIFIC QUANTITY INVOLVED. IN NO EVENT SHALL SELLER BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES.

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 through any type of irrigation system. 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 4 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, soil, or water, is:

- coveralls
- waterproof gloves
- shoes plus socks

USES

May be applied on the plants listed on this label which are growing in or around habitable buildings, along city streets and other rights-of-ways, as well as in agricultural settings. Refer to the appropriate table for the application rate needed to control a specific pest on a specific plant.

PESTS CONTROLLED

A wide range of mite and insect pests in the egg stage such as: spider and eriophyid mites, armored and soft scales, mealy-bugs, psyllids, whiteflies, aphids, leafrollers, leaf tiers, webworms, cankerworms, plant bugs, leafhoppers, and adelgids. Will kill other immature forms if spray covers the insect.

MIXING DIRECTIONS

1. Add sufficient water to the mixing tank to allow proper agitation by pump or paddles.
2. Add other desired pesticides. If wettable powder formulation, mix the water and powder thoroughly so that the powder is totally suspended in the water before the oil is added. If other pesticide to be added is an emulsifiable formulation, do so after the oil and water have been thoroughly mixed.
3. Add oil under agitation, when 3/4 full topping off with water to form milky solution.
4. Maintain agitation until solution is used.
5. In small equipment lacking agitators, stir or shake diluted spray frequently during application.
6. It is important for users to read and follow all directions and restrictions on the labels of the proposed tank mix products.
7. Flush fluid in sprayer hose lines back into tank reservoir if fluid is allowed to stand for more than 20 minutes.

APPLICATION INSTRUCTIONS

The target pest must be completely covered with spray. Oil residue on the plant surface often acts as a feeding and ovipositioning deterrent. However, the primary target is the pest itself as oil is a contact pesticide. Spray only when the temperature is above 40°F and there is no danger of freezing.

Dilute Applications defined as the number of gallons needed to completely cover all the tree surfaces, but not to the point of runoff. For most tree fruits this can be as much as 300-400 gallons per acre or as low as 100 gallons per acre for smaller trees. Dilute applications ensure the best coverage.

Concentrate Applications (usually 45 to 125 gallons spray per acre) may reduce coverage and effectiveness. Concentrate application includes the use of low volume (from 10 to 100 gallons spray per acre) sprayers. A concentrate application can provide satisfactory results as long as the spray unit is properly engineered, calibrated and operated. Speed of travel for ground application is extremely important. Tractor speed from 1 M.P.H. to 4 M.P.H. is recommended depending on crop, crop size and target pest.

Low volume applications of Sunspray 11E will require approximately the same amount of oil per acre as dilute sprays but applied with much less water. Spray oil calculations should be based on no run off of the oil phase of the mixture.

Aerial Applications Use only as an emergency application when soil conditions do not permit regular ground application. Apply quantity of product shown for each listed crop for control of listed insects in sufficient water to make a minimum of 20 gals. dilute spray per acre.

TIMING THE TREATMENT

The applicator must determine the precise timing to fit local growth and climatic conditions.

DO NOT EXCEED MAXIMUM RATES OR APPLY MORE OFTEN THAN RECOMMENDED.

TANK MIXES

Do not tank mix with any herbicides. Do not tank mix with any insecticide, fungicide or miticide whose label indicates that it should not be used with oil. It is recommended that the applicator consult the local pest management recommendations for other insecticides that may be tank mixed with oil. These recommendations will also suggest rates for the insecticide and the oil along with more precise information as to the best time for application. It is important for users to read and follow all directions and restrictions on the labels of the proposed tank mix products. Check tank mixture for physical and chemical compatibility. Mix only enough material to do the job.

1. For use as a carrier for *Bacillus thuringiensis* when applied through a mist blower or cold fog machine.
2. May be used with Permethrin on cotton only.
3. May be used in a tank mix with Lorsban on apples, pears, plums, prunes, peaches.
4. May be used in a tank mix with Supracide* on apples, pears, plums, prunes, pecans, peaches, ornamentals including shade trees and shrubs.
5. May be used as a spreader or carrier for certain synthetic organic insecticides applied for pest control in/on habitable buildings.

***NOTE: Supracide is a "Restricted Use Pesticide".**

**GENERAL RECOMMENDATIONS
FOR APPLICATION TO ALMONDS,
APPLES, APRICOTS, CHERRIES,
PEACHES, NECTARINES, PEARS,
PLUMS AND PRUNES.**

Completely cover all tree parts to achieve adequate control. Oil alone will control low to moderate infestations. Oil may be combined with other compatible insecticides for controlling higher scale infestations or to achieve better control of Peach Twig Borer. If 11E is combined with another insecticide use the lowest rate of 11E stated for a selected application (dilute, concentrate or aerial). We recommend consulting the local pest management guidelines for more details as to the rates and times of application for your specific location.

**SHADE TREE AND ORNAMENTAL
PLANT RESTRICTIONS**

Oil removes 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. Tendency toward sensitivity: Red Cedar and Douglas Fir. Use with caution and reduced dosage for dormant application on Sugar Maple and Red Bud. Do not spray when buds have fully opened and shoot elongation is occurring.

USE PRECAUTIONS

Keep oil container tightly closed in storage to prevent entry of water. Store drum on its side. Roll drum before use. All horticultural oils interfere with or slow plant transpiration and respiration during the period of evaporation. Phytotoxicity may result if sprayed to plants during periods of prolonged high temperature and high relative humidity. Do not spray to plants under moisture stress. The following list of pesticides represents some of the compounds that should not be used with Sunspray 11E, however this list is not exhaustive: anilazine (Dyrene), captan (Captan), captofol (Difolatan), cyprex (Dodine), Chlorothalnil (Bravo), dimethoate (Cygon), dinocap (Karathene), dithianon (Delan), fentin hydroxide (Supertin), fentinacetate (Fentin), folpet (Folpet), methiocarb (Metmercapturon), oxythioquinox (Morestan), PMA (Agrosun), propargite (Omite), lime sulfur, wettable sulfur or any other product containing sulfur. If possible, either keep the spray equipment used for these compounds separate from the equipment used for oil, or make sure that the sprayer is thoroughly cleaned so that no residue from these compounds remain. Do not use with Sevin brand 50W carbaryl on deciduous fruit trees.

NOTE: This pesticide is to be sold ONLY in this original unopened container.

Crops	Insect Control Aid	Application Rate			Time of Application (Stage of Development)
		Dilute Spray per 100 Gal. Water	Concentrate Gallons Oil Per Acre	Aerial* Gallons Oil Per Acre	
Almonds	Mite Eggs European Red Mite Brown Mite	1.0 - 2.0	4 - 6	4 - 6	Dormant or Delayed Dormant.
	Scales San Jose Scale	1.0 - 2.0	4 - 6	4 - 6	Dormant or Delayed Dormant.
	Fruit Tree Leaf Roller Eggs	1.0 - 2.0	4 - 6	4 - 6	Dormant or Delayed Dormant.
	Peach Twig Borer	1.0 - 2.0	4 - 6	4 - 6	Dormant or Delayed Dormant. If applying oil alone for moderate to severe San Jose Scale infestations use the dilute application only. Do not use oil on water stressed trees.
Apple	Fruit Tree Leaf Roller Eggs	1.0 - 2.0	4 - 6	4 - 6	Dormant. Make sure the egg masses are completely covered.
	Mite Eggs European Red Mite	1.0 - 2.0	4 - 6	4 - 6	Dormant.
	Aphid Eggs	1.0 - 2.0	4 - 6	4 - 6	Dormant or Delayed Dormant.
	Scales San Jose Scale European Fruit Lecanium Scale Scurfy Scale Italian Pear Scale	1.0 - 2.0	4 - 6	4 - 6	Dormant to Delayed Dormant.
	Apple Red Bug	1.0 - 2.0	4 - 6	4 - 6	Dormant.

* Aerial application should be used only as emergency application when soil conditions do not permit regular ground application.

Crops	Insect Control Aid	Application Rate			Time of Application (Stage of Development)	
		Dilute Spray per 100 Gal. Water	Concentrate Gallons Oil Per Acre	Aerial* Gallons Oil Per Acre		
Apricots	Mite Eggs European Red Mite Brown Mite	1.0 - 2.0	4 - 6	4 - 6	Dormant or Delayed Dormant.	
	Aphid Eggs	1.0 - 2.0	4 - 6	4 - 6	Dormant or Delayed Dormant.	
	Scales European Fruit Lecanium Scale San Jose Scale	1.0 - 2.0	4 - 6	4 - 6	Dormant or Delayed Dormant.	
	Fruit Tree Leaf Roller Eggs	1.0 - 2.0	4 - 6	4 - 6	Dormant or Delayed Dormant.	
	Peach Twig Borer	1.0 - 2.0	4 - 6	4 - 6	Dormant or Delayed Dormant. Do not use on water stressed trees.	
	Cherries (sweet & tart)	Mite Eggs European Red Mite Brown Mite	1.0 - 2.0	4 - 6	4 - 6	Dormant or Delayed Dormant.
	Aphid Eggs	1.0 - 2.0	4 - 6	4 - 6	Dormant or Delayed Dormant.	
Fruit Tree Leaf Roller Eggs	1.0 - 2.0	4 - 6	4 - 6	Dormant or Delayed Dormant.		
Scales European Fruit Lecanium Scale Black Scale San Jose Scale	1.0 - 2.0	4 - 6	4 - 6	Dormant or Delayed Dormant.		
Cherry Leafhopper Eggs	1.0 - 2.0	4 - 6	4 - 6	Dormant or Delayed Dormant.		
Peach Twig Borer	1.0 - 2.0	4 - 6	4 - 6	Dormant or Delayed Dormant. Do not apply oil to water or disease stressed trees.		
Figs	Scales	1.0 - 2.0	4 - 6	4 - 6	Dormant or Delayed Dormant.	

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Crops	Insect Control Aid	Application Rate			Time of Application (Stage of Development)
		Dilute Spray per 100 Gal. Water	Concentrate Gallons Oil Per Acre	Aerial* Gallons Oil Per Acre	
Olives	Scales	1.0 - 1.5	NR	NR	Pre-bloom or post-harvest. Apply 400-1500 gal dilute spray per acre. Spray at night or early morning if temperatures are expected to exceed 90°F during the day.
Pears	Mite Eggs European Red Mite Brown Mite Pear Leaf Blister Mite	1.0 - 2.0	4 - 6	4 - 6	Dormant or Delayed Dormant.
	Scales European Fruit Lecanium Scale San Jose Scale	1.0 - 2.0	4 - 6	4 - 6	Dormant. Do not apply to heavy infestations.
	Mealybugs, Eggs & Crawlers	1.0 - 2.0	4 - 6	4 - 6	Dormant or Delayed Dormant.
	Fruit Tree Leaf Roller Eggs	1.0 - 2.0	4 - 6	4 - 6	Dormant.
	Pear Psylla	1.0 - 2.0	4 - 6	4 - 6	Dormant. Make sure root zone is wet from rain or irrigation.
	Pecans	Obscure Scale	1.0 - 2.0	4 - 6	4 - 6
Peaches & Nectarines	Mite Eggs European Red Mite	1.0 - 2.0	4 - 6	4 - 6	Dormant.
	Scales Cottony Peach Scale San Jose Scale	1.0 - 2.0	4 - 6	4 - 6	Dormant.
	Fruit Tree Leaf Roller Eggs	1.0 - 2.0	4 - 6	4 - 6	Dormant.
	Peach Twig Borer	1.0 - 2.0	4 - 6	4 - 6	Dormant. Do not use on water stressed trees.

* Aerial application should be used only as emergency application when soil conditions do not permit regular ground application.
NR = Not Recommended

Crops	Insect Control Aid	Application Rate			Time of Application (Stage of Development)
		Dilute Spray per 100 Gal. Water	Concentrate Gallons Oil Per Acre	Aerial* Gallons Oil Per Acre	
Plums & Prunes	Mite Eggs European Red Mite Brown Mite	1.0 - 2.0	4 - 6	4 - 6	Dormant or Delayed Dormant.
	Scales European Fruit Lecanium Scale San Jose Scale	1.0 - 2.0	4 - 6	4 - 6	Dormant or Delayed Dormant.
	Aphids Eggs	1.0 - 2.0	4 - 6	4 - 6	Dormant or Delayed Dormant.
	Peach Twig Borer	1.0 - 2.0	4 - 6	4 - 6	Dormant or Delayed Dormant.
					Oil applications to kill overwintering eggs may cause some young shoot burn or dieback. Always apply oil to well watered trees. Do not use on Queen Ann variety of Plum.
Blueberries	San Jose Scale Putnam Scale Mites	2.0	NR	NR	Dormant.

* Aerial application should be used only as emergency application when soil conditions do not permit regular ground application.

NR = Not Recommended

Crop or Plants	Insect Control Aid	Application Rate 11E Gals. per 100 Gal. Dilute Spray	Time of Application (Stage of Development)
Shade Trees and Shrubs including Conifers, Deciduous Broadleaf Evergreens & Woody Ornamentals along city streets and other rights-of-way and in and around habitable buildings.	Aphids Adelgids Eriophyid Mites Gall Mites Honey Locust Plant Bug Lace Bug Leaf Beetle Larvae Leafminer Leaf Roller Mealybugs Psyllids (immature) Sawfly (larvae) Scales (immature) Spider Mites Webworms Whiteflies	2	Dormant.
Azalea	Azalea Bark Scale European Red Mite	2	Dormant to Bud Break.
Dogwood	Dogwood Scale San Jose Scale	2	As Above
Flowering Cherry	Azalea Bark Scale European Red Mite	2	As Above
Flower Crab	As Above	2	As Above
Euonymus	San Jose Scale Euonymus Scale	2	As Above
Holly	Holly Scale	2	As Above
Hawthorn	San Jose Scale	2	As Above
Juniper	Juniper Scale	2	As Above
Lilac	San Jose Scale	2	As Above
Pines	Needle Pine Scale	2	As Above
Privet	White Peach Scale	3	As Above
Rhododendron	Azalea Bark Scale	2	As Above
Rose	Rose Scale	2	Dormant.
Spirea	San Jose Scale	2	Dormant to Bud Break.