

Makes up to

25
Gallons

SunSpray® Ultra-Fine® Year-Round Pesticidal Oil

For Dormant AND
Growing-Season
Insect Control

For Use On:
Landscape Plants
Houseplants
Fruit Trees
Shade Trees
Garden Vegetables
Ornamentals
Flowers
Evergreens

NET CONTENTS: 1 QUART

ACTIVE INGREDIENT: Paraffinic Oil 98.8 wt%

INERT INGREDIENT: 1.2 wt%

**Controls
Whiteflies**

#25921
0C1

CAUTION: Keep Out Of Reach Of Children

A Pest Control Formula For The Conscientious Home Gardener

SunSpray® Ultra-Fine®

YEAR-ROUND PESTICIDAL OIL

A superior horticultural spray oil for insect and mite pest management

Active Ingredient: Paraffinic Oil 98.8 wt%
Inert Ingredient: Emulsifier 1.2 wt%

CAUTION: KEEP OUT OF REACH OF CHILDREN

PRECAUTIONARY STATEMENTS

Hazards to humans and domestic animals: Avoid contact with eyes, skin and clothing.

Harmful if swallowed. Liquid may enter the lungs and cause damage.

Avoid inhalation of spray mists or vapors.

Avoid eye contact.

Wash hands after use.

FIRST AID

If swallowed:

Immediately call a poison control center or doctor.

DO NOT INDUCE VOMITING unless told to do so by a poison control center or doctor.

Do not give **any** liquid to the person.

Do not give anything by mouth to an unconscious person.

If in eyes:

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 the eye. Call a poison control center or doctor for further treatment advice.

If on skin: Wash with soap and water.

If inhaled: Move person to fresh air.

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency, call 1-800-964-8861.

NOTE TO PHYSICIAN: Contains petroleum distillate - vomiting may cause aspiration pneumonia. Aspiration may occur after swallowing or vomiting and results in serious, and sometimes delayed lung injury.

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 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: Keep oil container **tightly** closed in storage to prevent entry of water or other contaminants. Store in a cool, dry, locked area out of the reach of children or pets. Do not store this product in direct sunlight for prolonged periods of time. This product should be stored in its original container only.

3. Pesticide Disposal: Securely wrap the original container in several layers of newspaper and discard in the trash.

4. Container Disposal: Do not reuse container (bottle, can, jar). Rinse thoroughly before discarding in the trash.

EPA Registration No. 862-28-270
EPA Establishment No. 270-NB-003
Net Contents: 1 Quart

Manufactured in the USA by Sunoco, Inc. (R & M), Philadelphia, PA 19103



Manufactured for
Farnam Companies, Inc.,
P.O. Box 34820
Phoenix, AZ 85067-4820

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01-2036

Prod. No. 2571

TABLE 5A - FRUIT TREES

FRUIT	PEST	APPLICATION RATE Tablespoons of Ultra-Fine per 1 Gallon Water	TIME OF APPLICATION (STAGE OF DEVELOPMENT)
APPLES	Aphids (eggs) Apple Red Bug Mites (eggs) including European Red Mite Scales (hard and soft) Scurfy Scale* Fruit Tree Leaf Roller (eggs)*	5.0 - 7.5	Dormant or Delayed Dormant to 1/2" Green.
	Mites	2.5	Summer (Foliar or Cover) or Postharvest. Do not apply over fruit after waxy bloom forms.
PEARS	European Red Mite (eggs) Pear Leaf Blister Mite (eggs)* Pear Psylla Scales Fruit Tree Leaf Roller (eggs)*	5.0 - 7.5	Dormant or Delayed Dormant (up to and including petal fall).
	Two-Spotted Spider Mite Brown Mite Pear Rust Mite Pear Leaf Blister Mite* Pear Psylla*	2.5 - 5.0	Summer (Foliar or Cover) or Postharvest.

* Use maximum rate specified

TABLE 5B - FRUIT & NUT TREES

FRUIT AND NUTS	PEST	APPLICATION RATE Tablespoons of Ultra-Fine per 1 Gallon Water	TIME OF APPLICATION (STAGE OF DEVELOPMENT)
ALMONDS APRICOTS CHERRIES	Aphids (eggs) Fruit Tree Leaf Roller (eggs) Tent Caterpillars San Jose Scale	5.0 - 7.5	Dormant or Delayed Dormant.
	Mites and Scales	2.5 - 4.0	Summer (Foliar or Cover) or Postharvest. - Application should not be made on oil sensitive varieties. - Do not apply to trees lacking adequate moisture.
PEACHES NECTARINES	Aphids (eggs)* Fruit Tree Leaf Roller (eggs) Mites (eggs) Cottony Peach Scale San Jose Scale	5.0 - 7.5	Dormant or Delayed Dormant.
	Mites Scales (immature)	2.5 - 5.0	Summer (Foliar or Cover) or Postharvest.

* Use maximum rate specified

TABLE 5B - FRUIT & NUT TREES (continued)

FRUIT AND NUTS	PEST	APPLICATION RATE Tablespoons of Ultra-Fine per 1 Gallon Water	TIME OF APPLICATION (STAGE OF DEVELOPMENT)
PLUMS PRUNES	Aphids (eggs) Scales Mites (eggs)	4.0 - 5.0	Dormant or Delayed Dormant to 1/2" Green Tip.
	Mites Scales	2.5 - 4.0	Summer (Foliar or Cover) or Postharvest. Do not apply over certain fresh market fruits after bloom starts to form as the oil spray will remove the waxy bloom. Application should not be made over oil sensitive varieties.
PECANS	Aphids (eggs) Scales Mites (eggs)	7.5	Dormant.

TABLE 5C - CITRUS TREES

CITRUS	PEST	APPLICATION RATE Tablespoons of Ultra-Fine per 1 Gallon Water	COMMENTS
LEMON GRAPEFRUIT	Mites Scales including California Red Scale	2.5 - 4.0	For best results, spray during Fall, early Winter & Spring months when red scale are more easily controlled and trees are generally less reactive to oil. For all citrus oil sprays ensure adequate moisture: leaves should not wilt before noon.
NAVEL & VALENCIA ORANGES, OTHER CITRUS VARIETIES INCLUDING NON-BEARING	Mites including Rust Mite Spider Mite Scales including Black Scale California Red Scale Whitefly & Blackfly Sooty Mold	2.5 - 4.0	Oils applied after Oct. may increase cold damage to trees. Oils applied in Aug. and Sept. may affect solids content and retard coloring.

TABLE 6 - HOME GREENHOUSE

PLANT	PEST	APPLICATION RATE Tablespoons of Ultra-Fine per 1 Gallon Water	SPECIFIC COMMENTS
AGERATUM CROWN OF THORNS DIEFFENBACHIA FERNS FICUS LISIANTHUS ORCHID PALMS PETUNIA POINSETTIAS SCHEFFLERA SUNFLOWER	Aphids Fungus Gnat Leafminers Mealybugs Scales (soft & hard) Spider Mites Whitefly	2.5	Due to varietal differences in response to a treatment of Ultra-Fine at the recommended rate, we recommend conducting a small test on 1 or 2 plants of the specific variety to be treated. <i>Frequency of Application: For the greenhouse pests listed, use once a week initially, then as the pest is controlled, decrease the frequency to every 2-3 weeks as needed.</i>
LEAF POLISH FOR HARDY PLANTS.		2.5	Do not use on Poinsettia bracts.

Some plants are more sensitive to oil treatments if any of the following conditions are present when application is made:

- High humidity (> 74%)
- An overcast or cloudy day
- Inadequate air flow
- A small greenhouse where the sunlight is magnified causing a fast build-up of temperature and light intensity.

TABLE 6 - HOME GREENHOUSE (continued)

PLANT	PEST	APPLICATION RATE Tablespoons of Ultra-Fine per 1 Gallon Water	SPECIFIC COMMENTS
AGLAONEMA ASTER AZALEAS BEGONIAS BROWALLIA CAMELLIAS CARNATION CELOSIA CHRYSANTHEMUM COLEUS COSMOS DUSTY MILLER EASTER LILIES GARDENIAS GERBERA HELLICHRYSUM HIBISCUS FOLIAGE HYDRANGEA JADE PLANT NEW GUINEA IMPATIENS NICOTONIA PHILODENDRON PORTULACA REIGOR BEGONIAS SNAPDRAGON MARGOLD ZINNIAS	Aphids Fungus Gnat Leafminers Mealybugs Scales (soft & hard) Spider Mites Whitefly	2.5 - 5.0	Due to varietal differences in response to a treatment of Ultra-Fine at the recommended rate, we recommend conducting a small test on 1 or 2 plants of the specific variety to be treated. <i>Frequency of Application: For the greenhouse pests listed, use once a week initially, then as the pest is controlled, decrease the frequency to every 2-3 weeks as needed.</i>

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Ultra-Fine®
YEAR-ROUND PESTICIDAL OIL

A superior horticultural spray oil for insect and mite pest management

Active Ingredient: Paraffinic Oil 98.8 wt%
Inert Ingredient: Emulsifier 1.2 wt%

- Effectively kills insects year-round
- For dormant and growing season applications
- Can also be used as a leaf polish
- Makes up to 25 gallons

CAUTION:
KEEP OUT OF REACH OF CHILDREN

This product controls Adelgids, Aphids, Lace Bugs, Leafhoppers, Leafminers (larvae), Mealybugs, Mites, Plant Bugs, Psyllids, Sawfly larvae, Scales, Thrips, Whitefly and eggs of Aphids, Mites and certain caterpillars on landscape, trees, plants, shrubs and flowering plants, houseplants, vegetables, fruit and nut trees, and home greenhouse plants. This product can be applied up to harvest.

Ultra-Fine is a concentrate and must be mixed with water according to the mixing directions inside. Follow the recommended dilution rate for the particular plant and pest being sprayed. This quart makes up to 25 gallons of spray when diluted with water.

Additional information contained inside on application, precautionary statements, storage and disposal.

READ DIRECTIONS THOROUGHLY BEFORE USING.
MANUFACTURER AND SELLER WILL NOT ACCEPT LIABILITY FOR DAMAGE OR INJURY RESULTING FROM MISUSE OF THIS PRODUCT.

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Manufactured for Farnam Companies, Inc., P.O. Box 34820 Phoenix, AZ 85067-4820

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Net Contents: 1 Quart
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PRECAUTIONARY STATEMENTS

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Wash hands after use.

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4. Container Disposal: Do not reuse container (bottle, can, jar). Rinse thoroughly before discarding in the trash.

USE PRECAUTIONS
 Keep the oil container tightly closed in storage to prevent entry of water. All horticultural oils interfere with or slow plant transpiration and respiration during the period of evaporation. Therefore, do not spray plants under stress (i.e., drought, disease) and do not apply during periods of prolonged high temperature combined with high relative humidity.

Do not tank mix with any fungicides or herbicides. The following guidelines must be followed:

Do not tank mix with any insecticide or miticide whose label indicates that it should not be used with oil. Users should read and follow all directions and restrictions on the labels of the proposed tank mix products. The combination of SunSpray Ultra-Fine with more than one additional pesticide is not recommended. Use caution and read all labels thoroughly when using any insecticides or

miticides in combination with SunSpray Ultra-Fine. Always conduct a test spray for plant sensitivity prior to making a full scale application.

The following list of pesticides represents some of the compounds and their common names that should not be used with SunSpray Ultra-Fine, however this list is not exhaustive: anilazine (Dyrene), captan (Captan), captofol (Difolatan), cyrex (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. Keep spray equipment used for these other products separate from the equipment used for SunSpray Ultra-Fine or make sure the sprayer is thoroughly cleaned so that no residue from these other products remain. Do not use with Sevin 50W formulation (Carbaryl) on deciduous fruit trees.

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.

MIXING DIRECTIONS
 Make sure the spray equipment to be used is clean, dry and odor free.

1. Fill the spray tank or bottle 3/4 full with water.

2. SHAKE THE CONTAINER OF SUNSPRAY ULTRA-FINE VIGOROUSLY PRIOR TO MEASURING OUT THE DESIRED AMOUNT. Add the appropriate amount of SunSpray Ultra-Fine to the water and shake.

3. Fill the remaining 1/4 of the spray tank or bottle with water and shake again. The solution should look milky, if it doesn't, do not use it.

4. During application shake the solution frequently. Do not apply to plants if the solution has been sitting for more

than 10 minutes without shaking it before resuming application.

5. Do not premix SunSpray Ultra-Fine and water. Mix just enough for the immediate use.

6. 2 tablespoons = 1 fluid ounce.
 4 tablespoons = 1/4 cup = 2 fluid ounces.

APPLICATION INSTRUCTIONS
 • The best times to spray are early evening and early morning.
 • The target pest and plant should be completely covered with the spray solution to be effective.
 • Do not exceed the maximum rates or apply more often than recommended.
 • Certain plant species may be sensitive to oil. A small number of plants should be test sprayed prior to general spraying.
 • Use caution on open blooms - bleaching and spotting have been observed on the open bloom of certain plants.
 • May be used up to day of harvest.
 • The effectiveness of Ultra-Fine may be reduced if prolonged temperatures below 50°F are experienced. This is due to the reduced respiration rate of the insect at these lower temperatures.
 • Protect painted surfaces, carpet and furnishings from overspray. May cause discoloration.

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. **MANUFACTURER AND SELLER DISCLAIM ANY AND ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE** (except as specified on this label). 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. **LIABILITY OF MANUFACTURER AND SELLER AND USER'S REMEDIES SHALL BE LIMITED TO REFUND OF THE PURCHASE PRICE OR REPLACEMENT OF THE SPECIFIC QUANTITY INVOLVED. IN NO EVENT SHALL MANUFACTURER OR SELLER BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES.**

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

TABLE 1 - HOME LANDSCAPE (Shade Trees, Shrubs, Ornamentals, Flower and Foliage Plants)

TREE OR PLANT	PEST	APPLICATION RATE Tablespoons of Ultra-Fine per 1 Gallon Water	TIME OF APPLICATION
Shade Trees* and Shrubs including Conifers, Deciduous Broadleaf Evergreens & Woody Ornamentals	Aphids Adelgids Eriophyid Mites Gall Mites Honeylocust Plant Bug Lace Bug Leaf Beetle Larvae Leafminer Leafroller Mealybug Psyllids (immature) Sawfly Larvae Scales (immature) Spider Mites Webworms Whitefly	5.0 - 7.5	Winter Dormant Period.
	Ornamental Trees*, Shrubs including Conifers, Deciduous and Broadleaf Evergreens	2.5 - 5.0	Summer (Foliar or Cover).
Flowering and Foliage plants including Roses and other Flowering Shrubs Foliage Ornamentals & Bedding plants		5.0 - 7.5	Winter Dormant Period.
		2.5 - 5.0	Summer (Foliar or Cover).

TABLE 2 - HOUSEPLANTS

PLANT	PEST	APPLICATION RATE Tablespoons of Ultra-Fine per 1 Gallon Water	COMMENTS
DIEFFENBACHIA DRACAENA FERNS PALMS SCHEFFLERA	Aphids Leafminers Mealybugs Scales Spider Mites Whitefly	2.5	Do not apply to plants in direct sunlight behind glass. Due to varietal differences in response to a treatment of Ultra-Fine at the recommended rate, we recommend conducting a small test on 1 or 2 plants of the specific variety to be treated.
		2.5 - 5.0	
CHRYSANTHEMUM GARDENIAS JADE PLANT PHILODENDRON			

TABLE 3- VEGETABLES OUTDOOR AND HOME GREENHOUSE

VEGETABLE	PEST	APPLICATION RATE Tablespoons of Ultra-Fine per 1 Gallon Water	TIME OF APPLICATION
ASPARAGUS BEANS BEETS CABBAGE CAULIFLOWER (OTHER COLE CROPS) CORN CUCURBITS EGGPLANT LETTUCE MELONS PEPPERS POTATOES RADISHES SQUASH SWEET POTATO TOMATOES HERB AND SPICES CURLY LEAF BASIL LEMON BALM MEXICAN OREGANO SPEARMINT	Aphids Mites Beetle Larvae Leafminers Leafhopper Whitefly Thrips	2.5 - 5.0	Do not exceed 4 applications in a growing season. A 2 week application interval is recommended.

TABLE 4 - SMALL FRUITS

SMALL FRUIT	PEST	APPLICATION RATE Tablespoons of Ultra-Fine per 1 Gallon Water	TIME OF APPLICATION
BLUEBERRIES	Mites Sawfly (eggs) Scales	7.5 5.0	Dormant. Summer.
STRAWBERRIES	Aphids Mites	2.5	Dormant and Summer.
GRAPES	Mealybugs Mites	2.5 - 5.0 5.0	Dormant. Bud swell or shoot growth of 5-7 cm in spring.
		5.0	Postharvest.

TABLE 3- VEGETABLES OUTDOOR AND HOME GREENHOUSE

Apply a rate of 2.5 - 5.0 tablespoons Ultra-Fine per 1 gallon water from midsummer to early fall every 2-4 weeks to zinnia, lilac, azalea, monarda, phlox, helianthemum and aster. If application to other woody or herbaceous ornamental plants is desired, we recommend first conducting a small scale test on specific plants that are to be treated, to check for sensitivity to the oil treatment. Ultra-Fine is not effective if the plant canopy is extremely dense because adequate spray coverage is difficult to attain. Greenhouse applications should be at the 2.5 tablespoon rate and a test spray should be conducted due to increased sensitivity of greenhouse grown plants.

TABLE 3- VEGETABLES OUTDOOR AND HOME GREENHOUSE

Protect floor, floor coverings and furnishings from overspray.

CAUTION: Do Not exceed 3 consecutive applications without allowing a two week application interval.

CAUTION: Up to 4 applications during the growing season are typically sufficient to control pests. Use a 2 week minimum application interval. For fall dormant applications, reduce rate to 5 tablespoons per gallon and limit use only to: American Red Oak, Japanese Black Pine, Dogwood, Weeping Cherry, Cornelian Cherry, Crabapple, Norway Maple, Purple Leaf Plum.

TABLE 3- VEGETABLES OUTDOOR AND HOME GREENHOUSE

Disease Control For Vegetables
 Apply a rate of 2.5 - 5.0 tablespoons Ultra-Fine per 1 gallon water to control powdery mildew on cucurbits, melons and squash; gummy stem blight and Alternaria leaf blight on melons. Application should be made when the disease is first noticed and continue on a weekly basis to both the upper and lower leaf surfaces. If application to other vegetables listed above is desired, we recommend first conducting a small scale test spray. Greenhouse applications should be at the 2.5 tablespoon rate.

TABLE 4 - SMALL FRUITS

Grape vines should be vigorous and supplied with ample water prior to application. No sensitivity to Ultra-Fine treatments have been seen on the following grape varieties; Cabernet, Merlot, Chardonnay and Ribier. Variety sensitivity may be observed per growing condition; test spray first.