



U.S. ENVIRONMENTAL PROTECTION AGENCY
 Office of Pesticide Programs
 Registration Division (7505C)
 401 "M" St., S.W.
 Washington, D.C. 20460

EPA Reg. Number:
 862-28

Date of Issuance:
 FEB 17 1994

NOTICE OF PESTICIDE:
 Registration
 Reregistration

Term of Issuance: Until
 Reregistration

Name of Pesticide Product: Sunspray
 Ultra-Fine Year Round
 Pesticidal Oil

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Sun Company, Inc. (R&M)
 Ten Penn Center
 1801 Market Street
 Philadelphia, Pennsylvania 19103

Notes: Changes in labeling differing in substance from that accepted in connection with this registration must be presented to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
2. Change the label by revising the EPA Registration Number to read, "EPA Reg. No. 862-28."
3. Submit two copies of the revised final printed label for the record.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Signature of Approving Official:

DENNIS H. EDWARDS

Dennis H. Edwards, Jr.
 Product Manager (19)
 Insecticide-Rodenticide Branch
 Registration Division (7505C)

Date:

FEB 17 1994

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SunSpray Ultra-Fine

YEAR-ROUND PESTICIDAL OIL

*Effectively Kills Insects Year-Round on
Landscape Plants • Houseplants • Garden Vegetables • Fruit Trees*



An innovative formulation
for the conscientious home
gardener.

ACTIVE INGREDIENT:
Paraffinic Oil. 98.8%
Inert Ingredient. 1.2%

CAUTION:
Keep Out Of Reach Of Children.
NET CONTENTS: 1 GALLON

6 1/2" X 5 3/16"
ULTRA-FINE GALLON LABEL

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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%

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

Mix with water according to the mixing directions inside. Follow the recommended dilution rate for the particular plant and pest being sprayed. This gallon makes up to 100 gallons of spray when diluted with water.

EPA Registration No. 862
EPA Establishment No. 862-PA-1

SUN Sun Company, Inc. (R&M)
1801 Market Street,
Philadelphia, PA 19103

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

READ DIRECTIONS THOROUGHLY BEFORE USING.

SUN COMPANY WILL NOT ACCEPT LIABILITY FOR DAMAGE OR INJURY RESULTING FROM MISUSE OF THIS PRODUCT.

CAUTION: KEEP OUT OF REACH OF CHILDREN



Net Contents: 1 Gallon

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PRECAUTIONARY STATEMENTS

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

Harmful if swallowed: This material contains a light petroleum hydrocarbon distillate and if swallowed, an aspiration hazard may exist. Liquid may enter the lungs and cause injury. Avoid inhalation of spray mists or vapors. Avoid eye contact. Wash hands after use.

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 plenty of fresh water. If inhaled: Move to fresh air.

Immediately

ENVIRONMENTAL HAZARDS

This product is toxic to fish. Do not apply directly to water. 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. Do not store this product in direct sunlight for prolonged periods of time. This product should be stored in its original container only.

its

- 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.

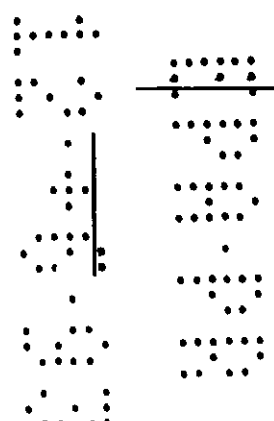
USE PRECAUTIONS

Do not spray plants under stress (i.e. drought, disease). Do not apply during periods of prolonged high temperature combined with high relative humidity. Do not spray if freezing temperatures are expected within 24 hours. Due to the reduced respiration rate of the insect at temperatures below 50°F, the effectiveness of SunSpray Ultra-Fine is reduced. Do not use SunSpray Ultra-Fine with dimethoate, herbicides or fungicides such as Captan, Folpet, Dyrone, Karathene, Morestan or any product containing sulfur. Do not use with Sevin 50W formulation (carbaryl) on deciduous fruit trees. 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.

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.

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odor free

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

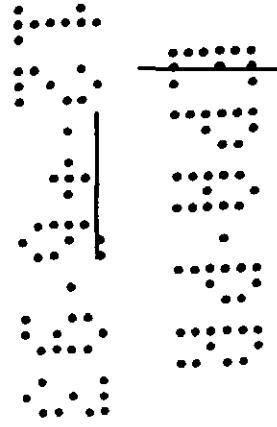
- The best times to spray are early evening and early morning.
- The target pest and plant should be completely covered with the spray solution to be effective.
- Do not exceed the maximum rates or apply more often than recommended.
- Certain plant species may be sensitive to oil. A small number of plants 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.

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.

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

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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 Bugs (immature) Certain Caterpillars Eriophyid Mites Gall Mites	5 - 10	Winter Dormant Period as needed.
Ornamental Trees*, Shrubs including Conifers, Deciduous and Broadleaf Evergreens	Lace Bug Leaf Beetle Larvae Leafminer Mealybug Psyllids (immature) Sawfly Larvae	2.5 - 7.5	Summer (Foliar or Cover) as needed.
Flowering and Foliage plants including Roses and other Flowering Shrubs Foliage Ornamentals & Bedding plants	Scales (immature) Spider Mites Whitefly**	5.0 - 7.5	Winter Dormant Period as needed.
		2.5 - 5.0	Summer (Foliar or Cover) as needed.

* Oil removes the glaucous (blue) bloom from such evergreens as Colorado Blue Spruce and Koster Spruce. Always use lower dosage or test spray oil sensitive plants such as Cryptomeria, Smoke Tree, Chamaecyparis, Juniper, Japanese Holly and Spruce. Tendency towards sensitivity: Red Cedar and Douglas Fir. Do not spray Walnut foliage.

** Ultra-Fine is most effective on Whitefly during immature stages.

are typically sufficient to

CAUTION: Up to 4 applications during the growing season will adequately control pests. Use a 2 week minimum application interval. Do not spray when buds have fully opened and shoot elongation is occurring. 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.

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TABLE 2 - HOUSEPLANTS

PLANT	PEST	APPLICATION RATE Tablespoons of Ultra-Fine per 1 Gallon Water	COMMENTS
CHRYSANTHEMUM DIEFFENBACHIA DRACAENA FERNS GARDENIAS JADE PLANT PALMS PHILODENDRON SCHEFFLERA	Aphids Leafminers Mealybugs Scales Spider Mites Whitefly *	2.5 - 5.0	Do not apply to plants in direct sunlight behind glass. Do not use on Coconut Palms or Maidenhair Ferns. Chrysanthemum blooms have shown phytotoxic symptoms at the higher rate.

Protect floor, floor coverings and furnishings from overspray.

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

* Ultra-Fine is most effective on Whitefly during immature stages.

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TABLE 3-VEGETABLES

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 TOMATOES	Aphids Mites Beetle Larvae Leafminers Certain Caterpillars Leafhopper Whitefly	2.5 - 5.0	As needed

TABLE 4 - SMALL FRUITS

SMALL FRUIT	PEST	APPLICATION RATE Tablespoons of Ultra-Fine per 1 Gallon Water	TIME OF APPLICATION
BLUEBERRIES	Mites	7.5	Dormant
	Sawfly (eggs) Scales	5.0	Summer
STRAWBERRIES	Aphids Mites	2.5	Dormant and Summer
GRAPES	Mealybugs	2.5 - 5.0	Dormant- a tank mix with an insecticide improves control

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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) Bugs (immature) including 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

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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) Bugs (immature) 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)* Bugs (immature) 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

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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) 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
	Aphids Mites	2.5 - 4.0	Summer (Foliar or Cover) Postharvest

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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.
NAVAL & VALENCIA ORANGES, OTHER CITRUS VARIETIES INCLUDING NON-BEARING	Mites including Hust 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. The addition of a tank mix pesticide will improve performance against scales.

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TABLE 6 - HOME GREENHOUSE

PLANT	PEST	APPLICATION RATE Tablespoons of Ultra-Fine per 1 Gallon Water	SPECIFIC COMMENTS
AZALEAS BEGONIAS CAMELIAS CHRYSANTHEMUM EASTER LILIES FERNS GARDENIAS GERANIUM HIBISCUS FOLIAGE JADE PLANT NEW GUINEA IMPATIENS PALMS PHILODENDRON PORTULACA REIGOR BEGONIAS ZINNIAS	Aphids Fungus Gnat Bugs Leafminers Mealybugs Scales (soft & hard) Spider Mites Whitefly *	2.5 - 5.0	Do not use on Coconut Palms or Maidenhair Ferns. The blooms of Chrysanthemum and Geranium have shown Phytotoxic symptoms at the 5 tablespoon rate. <i>Frequency of Application: For the greenhouse pests list 1, use once a week initially, then as the pest is controlled, decrease the frequency to every 2-3 weeks as needed.</i>
DIEFFENBACHIA POINSETTIAS		2.5	Do not use on Poinsettia/Tracts
LEAF POLISH FOR HARDY PLANTS.		2.5	

* Ultra-Fine is most effective on Whitefly during immature stages.

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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: This material contains a light petroleum hydrocarbon distillate and if swallowed, an aspiration hazard may exist. Liquid may enter the lungs and cause injury.
 Avoid inhalation of spray mists or vapors.
 Avoid eye contact.
 Wash hands after use.

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 plenty of fresh water.
 If inhaled: Move to fresh air.

Immediately

ENVIRONMENTAL HAZARDS

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