

ALL SEASONS HORTICULTURAL AND DORMANT SPRAY OIL® CONCENTRATE

FOR ORGANIC GARDENING

**CONTROLS SCALE INSECTS, MEALYBUGS, APPLE
APHIDS, EUROPEAN RED SPIDER MITES, LEAFMINERS
AND OTHER LISTED INSECTS ... USE ON PEARS,
CHERRIES, PEACHES, ASPARAGUS, CORN, PEPPERS,
ROSES, HOUSEPLANTS AND HOME GREENHOUSES.**

**ALL SEASONS® HORTICULTURAL AND DORMANT SPRAY OIL
IS A SELF-EMULSIFYING SPRAY OIL, COMPOSED OF SUPERIOR HIGHLY
PARAFFINIC OIL WITH EMULSIFIER AND SPREADER STICKER, WHICH ENVELOP, WET
AND SMOOTHER OVER WINTERING EGGS OF EUROPEAN RED SPIDER MITES, ADELGIDS, SCALE
INSECTS, APPLE APHIDS (EXCEPT ROSY APHIDS), BUD MOTH, LEAF ROLLER, RED BUG, CODLING
MOTH LARVAE, PSYLLA (ADULTS), BLISTER MITES, GALLS, WHITEFLY LARVAE AND MEALYBUGS
ON FRUIT TREES, SHADE TREES, VEGETABLES, ORNAMENTALS, SHRUBS AND ROSES.**

Store and transport in an upright position.

EPA Est. No. 4-NY-1 EPA Reg. No. 4-80

Buyers Guarantee Limited to Label Claims.

Bonide Products, Inc.
6301 Sutliff Road
Oriskany, NY 13424

Quart



DIRECTIONS FOR USE

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

NOTE: DO NOT APPLY ALL SEASONS® HORTICULTURAL AND DORMANT SPRAY OIL WITH SULFUR SPRAYS OR WHERE SULFUR IS ON THE FOLIAGE, TO DO SO MAY CAUSE FOLIAGE INJURY, LEAF DROP. DO NOT APPLY ALL SEASONS® HORTICULTURAL AND DORMANT SPRAY OIL AT ABNORMAL TEMPERATURES (ABOVE 90° F) OR WHEN PLANTS ARE DRY (SUFFERING FOR WANT OF MOISTURE) AS IT MAY CAUSE LEAF DROP DUE TO "SHOCK."

Mixture ratios vary. Read and use according to application directions. Apply using a good pressure spray hose-end or watering can.

ALL SEASONS® HORTICULTURAL AND DORMANT SPRAY OIL is a high quality, pleasant to use spray oil, that will not harm clothing.

ALL SEASONS® HORTICULTURAL AND DORMANT SPRAY OIL may be used at the DORMANT STAGE (before buds show green tissue), GREEN TIP STAGE (when leaves of blossom buds are bursting and show about 1/8 to 1/4 inch of green color), DELAYED DORMANT STAGE (when the leaves of the blossom buds are out from 1/4 to 1/2 inch), and during the GROWING SEASON.

DILUTION TABLE - 2 Tablespoons = 1 Fluid Ounce

Actual Oil Solution	Amt. Dormant Spray Oil Small Quantities
2%	5 Tbs. with 1 gal. of water
3%	7½ Tbs. with 1 gal. of water
4%	5 fl. oz. with 1 gal. of water
6%	7 fl. oz. with 1 gal. of water
7%	8 fl. oz. with 1 gal. of water

Consult your experiment station for proper timing and choice of fungicide to use with ALL SEASONS® HORTICULTURAL AND DORMANT SPRAY OIL. Use Bonide's Liquid Fruit Tree Spray for home orchard care. Multi-purpose, pre-blended insecticide-fungicide liquid. SHAKE WELL. Then add ALL SEASONS® HORTICULTURAL AND DORMANT SPRAY OIL to desired amount of water and mix thoroughly, use a good pressure spray and apply enough liquid per tree to wet entire surface of branches, main limbs and trunk. Give special attention to underside of limbs. Make application when the temperature is above 40° F.

APPLES

GREEN TIP THROUGH THE DELAYED DORMANT STAGES—For scale insects, red bugs, European red mite, bud moth, leaf roller, apple aphids (except rosy aphids). Use 2% actual oil solution for mites, San Jose scale - Use 3% actual oil solution for scurfy scale, leaf roller, bud moth, red bug, codling moth larvae. DORMANT STAGE of bud development for all above mentioned insects, use 4% actual oil.

PEARS

DORMANT STAGE – For scale insects, blister mite, leaf roller, psylla (adults) - Use 3% actual oil solution, apply spray on the 3rd or 4th sunny warm day in early spring before buds break and when psylla flies are swarming on the spurs.

PLUMS, PRUNES

DELAYED DORMANT – For European red mites, scale insects - Use 2% actual oil solution for red mites and San Jose scale. - Use 3% to 4% actual oil solution for scurfy scale.

PEACHES

DELAYED DORMANT—For European red mites, scale insects. – Use 3% to 4% actual oil solution.

CHERRIES (Sour)

DORMANT STAGE – For European red mites, scale insects. – Use 3% to 4% actual oil solution.

GRAPES

DORMANT STAGE – For grape plume moth, scale insects. - Use 3% actual oil solution, apply before buds begin to swell.

SHADE TREES, ORNAMENTALS, ROSES

GREEN TIP THROUGH THE DELAYED DORMANT STAGES – For scale insects, certain aphids, gall, whitefly larvae, mealybugs, Adelgids. - Use 3% actual oil solution. - For scurvy scale, use 4% actual oil solution. - For terrapin scale, use 6% to 7% actual oil solution.

GROWING SEASON–To control Scale Insects, Red Spider Mites, Mealybugs and Whitefly Larvae on Citrus (Oranges, Lemons, Grapefruit, Tangerines, Limes), Fruit Trees (Apples, Plums, Pears, Apricots, Peaches, Pecans, Cherries), Shade Trees, Evergreens, Camellias, Azaleas, Hardy Shrubs: 5 Tablespoonfuls (2 1/2 fl. oz.) per gal. of water. This application is also effective in the removal of sooty mold fungus through the control of Whitefly Larvae.

FRUITS

Crop	Pest	Application Rate Tablespoons per 1 Gallon Water	Time of Application
Blueberry	Thrips, Mites, Sawfly (eggs) Scales	5.0	Foliage
		7.5	Dormant
Strawberry	Aphids, Mites	2.5	Dormant (and Foliage)
Grape	Mealybugs	10-15 in 2-3 gal.	Dormant - A tank mix with an insecticide improves control.

VEGETABLES

Crop	Pest	Application Rate Tablespoons per 1 Gallon Water	Time of Application
Asparagus, Beans, Beets, Corn, Pepper, Radish, Squash, Tomato	Aphids, Mites, Beetle Larvae, Leafminers, Thrips, Leafhopper, Whitefly	2.5-5.0	As Needed

CAUTION! Do not spray again with oil for at least a month. Do not spray drought injured or winter burned plants. Do not apply oil sprays within 30 days of sulfur applications. Injury may result if oil sprays are used on ferns, palms, hibiscus, certain conifers including blue spruce, white pine, arborvitae and junipers and certain deciduous trees such as Japanese maple, beech, hickory, walnut and butternut. To determine actual oil percentage, consult dilution table. When used in knapsack or small sprayer, shake occasionally to keep solution agitated.

FOR HOUSEPLANTS AND HOME GREENHOUSES

- 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.

HOUSEPLANTS

Plant	Pest	Application Rate Tablespoons 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.

*All Seasons® Horticultural and Dormant Spray Oil is most effective on Whitefly during immature stages.

Protect floor, floor coverings and furnishings from overspray.

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

HOME GREENHOUSE			
Plant	Pest	Application Rate Tablespoons per 1 Gallon Water	Specific Comments
Azaleas, Begonias, Camellias, Chrysanthemums, Easter Lilies, Ferns, Gardenias, Geranium, Hibiscus Foliage, Jade Plant, New Guinea Impatiens, Palms, Philodendron, Portulaca, Reigor Begonias, Zinnias	Aphids, Fungus, Gnat, 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:</i> <i>For the greenhouse pests</i> <i>listed, use once a week</i> <i>initially, then as the pest</i> <i>is controlled, decrease</i> <i>the frequency to every 2-</i> <i>3 weeks as needed.</i>
Dieffenbachia, Poinsettias		2.5	Do not use on Poinsettia bracts.
Leaf Polish for Hardy Plants		2.5	

**All Seasons® Horticultural and Dormant Spray Oil is most effective on Whitefly during immature stages.*

STORAGE AND DISPOSAL

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

Pesticide Storage: Store and transport in an upright position. Keep container tightly closed to prevent evaporation. Do not use, pour, spill or store near heat or open flame. Store in a cool, dry area inaccessible to children or pets. **Pesticide & Container Disposal:** *If empty* - Do not reuse this container. Place in trash or offer for recycling if available. *If partly filled* - Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

FIRST AID

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact the National Pesticide Information Center at 1-800-858-7378 for emergency medical treatment information.

If Swallowed:	<ul style="list-style-type: none">• Call a poison control center or doctor immediately for treatment advice.• Do not give any liquid to a person.• Do not induce vomiting unless told to do so by the poison control center or doctor.• Do not give anything by mouth to an unconscious person.
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, preferably by mouth-to-mouth, if possible.• Call a poison control center or doctor for further treatment advice.
If on Skin or Clothing:	<ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15-20 minutes.• Call a poison control center or doctor for treatment advice.
If in Eyes:	<ul style="list-style-type: none">• 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 eye.• Call a poison control center or doctor for treatment advice.
Note to Physician:	<ul style="list-style-type: none">• Contains petroleum - vomiting may cause aspiration pneumonia.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS-CAUTION

Harmful if swallowed, inhaled, or absorbed through the skin. Do not get in eyes, on skin or on clothing. Avoid breathing spray mist. In case of contact, wash immediately with soap and warm water. Wash hands, arms, and face thoroughly with soap and warm water after handling. Wash all contaminated clothing with soap and hot water before re-use.

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 the label.

Material Safety Data Sheet
May be used to comply with
OSHA's Hazard Communication Standard,
29 CFR 1910.1200. Standard must be consulted
for specific requirements.

U.S Department of Labor
Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY (As Used on Label and List)
**Bonide All Seasons Horticultural & Dormant
Spray Oil Concentrate**

ID # 480

Date: March 10, 2008

Section I

Bonide Products, Inc.
6301 Sutliff Road
Oriskany, NY 13424

(800) 424-9300
(315) 736-8231

Section II - Hazardous Ingredients/Identity

Hazardous Components (Specific Chemical Identity: Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits	% (Optional)
Petroleum Oil				98.80

Section III - Physical/Chemical Ingredients

BOILING POINT: >200°F (wide range) SPECIFIC GRAVITY: 0.85
VAPOR PRESSURE (MM. of Mercury): <0.0001 VAPOR DENSITY (AIR=1): 10+
PERCENT VOLATILE (BY VOLUME): Negligible SOLUBILITY IN WATER: Emulsifies in water
AUTOIGNITION TEMPERATURE: 650°F (est.) DENSITY: 7.08 lbs/gal
EVAPORATION RATE (BUTYL ACETATE=1): Lower than Butyl Acetate
APPEARANCE AND ODOR: Clear, colorless, oily liquid with virtually no odor.

Section IV - Fire and Explosion Data

FLASHPOINT: >200 F FLAMMABLE LIMITS (PERCENT BY VOLUME): NE
FIRE EXTINGUISHING MEDIA: Can be made to burn; ease of burning is directly related to temperature. Dry
Chemical, CO₂, Foam, Water Spray or Fog.
SPECIAL FIRE FIGHTING PROCEDURES: Smoke and fumes from fire may contain hazardous components. Use
self-contained breathing apparatus and full protective clothing. Fight fire from upwind side.
UNUSUAL FIRE AND EXPLOSION HAZARDS: If water is used to fight fire or cool containers, contain run-off by
diking to prevent contamination of water supplies.

Section V - Reactivity Data

STABILITY: Stable CONDITIONS TO AVOID: Excessive Heat CONDITIONS TO AVOID: NE
HAZARDOUS POLYMERIZATION: Will not occur INCOMPATIBILITY (Materials to avoid): Strong Oxidizers
HAZARDOUS DECOMPOSITION PRODUCTS: Unknown hazardous materials may be formed in a fire situation.
Incomplete combustion may lead to formation of carbon monoxide and/or other asphyxiants.

Section VI - Health Hazard Information

ROUTES OF ENTRY: Ingestion, inhalation, eyes and skin contact. MOST LIKELY ROUTE OF ENTRY: Dermal
product is considered to be of low to moderate toxicity. May be harmful if swallowed or inhaled. May cause
irritation of eyes, nasal passages, throat and skin. Prolonged or repeated exposure may lead to reddening of skin, rash,
dermatitis or other skin reactions, possible due, in part, to the removal of some natural oils and fats from the skin.
EMERGENCY AND FIRST AID PROCEDURES: Call a physician immediately in all cases of suspected poisoning.
INGESTION: Drink 1 or 2 glasses of water to dilute material. Do not induce vomiting, as potential aspiration may
induce chemical pneumonia. EYES: Flush with running water for at least 15 minutes while holding eyelids open. If
irritation persists, get medical attention. SKIN: Remove all contaminated clothing. Wash skin and hair thoroughly
with soap and water. Wash clothing before reuse. If irritation persists, get medical attention. INHALATION:
Remove to fresh air. If irritation persists, get medical attention. MEDICAL CONDITIONS AGGRAVATED BY
EXPOSURE: None known. Preexisting skin or respiratory disorders may be aggravated by excessive exposure to this
material. POTENTIAL CARCINOGEN STATUS: Tests on laboratory animals with highly-refined oils such as those
contained in this product have shown no evidence of carcinogenicity. None of the other components in this product is
listed by IARC, NTP or OSHA as a carcinogen.

Section VII - Precautions for Safe Handling/Use

HANDLING AND STORAGE: Store in a cool, dry place away from children, domestic animals, food and feed products. Do not contaminate other stored products or the storage area by handling or storage of this product. Immediately clean up any spills which occur during handling and storage.

OTHER PRECAUTIONS: Do not contaminate water supplies by handling or storage of product, cleaning of equipment or disposal of wastes. Keep work and storage areas clean. Read and follow precautionary measures on product label.

RESPIRATORY PROTECTION (Specify type): Not normally required. If vapors may exceed acceptable levels, wear MSHA/NIOSH-approved respirator or mask to protect against pesticide dusts, mists and vapors.

VENTILATION:

LOCAL EXHAUST: Not normally required **SPECIAL:** Not normally required

MECHANICAL (General): Not normally required. Use if ventilation is not adequate.

OTHER: Work in a well-ventilated area

PROTECTIVE GLOVES: Work gloves or impervious gloves. If prolonged exposure cannot be avoided, wear impervious gloves.

EYE PROTECTION: None normally required; follow local work rules. Chemical goggles or shielded safety glasses recommended for prolonged or repeated exposure.

OTHER PROTECTIVE EQUIPMENT: Wear clothing consistent with good practices for handling and applying pesticides. Wash clothing before reuse.

Section VIII - Environmental and Disposal Information

SPILL OR LEAK PROCEDURES: Contain spill; absorb liquids by covering with clay or other absorbent material; vacuum, scoop or sweep up wastes and place in container for disposal.

WASTE DISPOSAL METHOD: Material which cannot be used at the site should be disposed of in an approved waste disposal facility following all applicable Federal, State and local regulations. Triple rinse empty containers and offer for recycling or reconditioning, or puncture and dispose of in an approved sanitary landfill. Do not contaminate water supplies by disposal of wastes or containers.

NOTICE: This information is believed to be accurate and reliable. However, no guarantee expressed or implied is made with respect to the information contained herein.

KEEP OUT OF REACH OF CHILDREN

ABBREVIATION KEY

N/A: NOT AVAILABLE OR APPLICABLE N/E: NOT ESTABLISHED ND: Not Determined
 TLV: THRESHOLD LIMIT VALUE TWA: TIME WEIGHTED AVG./8 HOUR WORKDAY
 STEL: SHORT TERM EXPOSURE LIMIT D.O.T.: DEPARTMENT OF TRANSPORTATION

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Buyer assumes all risks of use, storage and handling of this material not in strict accordance with directions given herewith.