

# FUNG-ONIL® MULTI-PURPOSE FUNGICIDE READY-TO-USE

CONTAINS ECHO™ LITE  
CHLOROTHALONIL FUNGICIDE

**CONTROLS:** LEAF SPOTS, RUST, BLIGHTS, FRUIT ROTS,  
MILDEWS, SCAB, MOLDS, ETC.

**USE ON:** VEGETABLES, FRUIT TREES, FLOWERS, SHRUBS,  
AND SHADE TREES

READY-TO-USE FOR HEALTHIER PLANTS FOR CONTROL OF  
PLANT DISEASE.

Store and transport in an upright position.

EPA Est. No. 4-NY-1 EPA Reg. No. 4-410  
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.

### SHAKE WELL BEFORE USING

Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes or climatic modification and being grown in interior plantscapes, ornamental gardens or parks, and grounds. Also for use on fruit trees and vegetables.

### READ ENTIRE LABEL AND USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS.

This product is highly effective for the control of a broad spectrum of vegetable, fruit and ornamental plant diseases when it is used according to the directions on this label. When conditions are favorable for development, thorough uniform coverage of plant surfaces is essential for good disease control.

**General Precautions and Restrictions:** Do not allow people or pets to enter treated areas until sprays have dried. Do not apply this product in a way that will contact other persons or pets, either directly or through drift.

## VEGETABLE DISEASES

Spray foliage to point of runoff. Repeat at 7 to 14 day intervals. Use the shorter spray schedule during severe disease conditions or wet weather unless otherwise stated.

**Note:** Avoid spraying plants during extremely hot and sunny weather. Do not apply to wilted plants. Do not graze treated areas or feed treated plant parts to livestock.

**VEGETABLES:** Numbers in parentheses ( ) indicate days required between last application and harvest.

**BEANS (Green) (7):** *Rust and Botrytis Blight (Gray Mold)* - Begin applications during early bloom stage or when disease first threatens. Repeat at weekly intervals or as necessary. Do not apply more than 28 gal. per 1,000 sq. ft. per season.

**BROCCOLI (7), BRUSSELS SPROUTS (7), CABBAGE (7), CAULIFLOWER (7):** *Alternaria Leaf Spot and Downy Mildew* - Begin after transplants are set in the field or when conditions favor disease development. Repeat at 7 to 10 day intervals. Do not apply more than 38 gal. per 1,000 sq. ft. per season.

## VEGETABLE DISEASES Cont.

**RING SPOT IN BRUSSELS SPROUTS (CA only)** - Begin at time of early sprout development or when conditions favor disease development. Repeat at 7 to 10 day intervals. Do not apply more than 38 gal. per 1,000 sq. ft. per season.

**CARROTS (7):** *Cercospora (Early) Blight and Alternaria (Late) Blight* - Begin when disease threatens and repeat at 7 to 10 day intervals or as required to maintain control. Do not apply more than 47 gal. per 1,000 sq. ft. per season.

**CELERY (7):** *Cercospora (Early) Blight and Septoria (Late) Blight; Basal Stalk Rot and Pink Rot (Suppression)* - Begin when plants are set in the field. Repeat at 3 to 7 day intervals or as needed. Do not apply more than 57 gal. per 1,000 sq. ft. per season.

**CORN (SWEET) (7):** *Helminthosporium Leaf Blight and Rust* - Begin when conditions favor disease development. Repeat at 4 to 7 day intervals or as needed. Do not apply to sweet corn for processing. Do not apply more than 28 gal. per 1,000 sq. ft. per season.

**CUCUMBERS (7), MELONS (7), PUMPKINS (7), SQUASH (7):** *Anthraco-nose, Downy Mildew and Target Spot; Scab, Gummy Stem Blight (Black Rot) Leaf Blight, Cercospora Leaf Spot, Powdery Mildew (except Southwestern states). Also suppresses Fruit Rot (Rhizoctonia) on cucumbers* - Begin when plants are in the first true leaf stage or when conditions are favorable for disease. Repeat applications at 7 day intervals or more frequently if required. Do not apply more than 50 gal. per 1,000 sq. ft. per season.

**ONION (GREEN) (7) AND DRY BULB (7), LEEK (7), SHALLOT (7), GARLIC (7):** *Botrytis Leaf Blight (Blast), Purple Blotch and Downy Mildew (suppression)* - Apply at first sign of disease and repeat at 7 to 10 day intervals. For green onions, leek and shallot, do not apply more than 21 gal. per 1,000 sq. ft. per season; for dry bulb onions and garlic, do not apply more than 47 gal. per 1,000 sq. ft. per season.

**POTATO (5):** *Early Blight, Late Blight, Botrytis Vine Rot* - Begin when plants are 6 inches high or when disease threatens and continue at 7 to 10 day intervals or as needed to maintain disease control. Do not apply more than 35 gal. per 1,000 sq. ft. per season.

**TOMATO (7):** *Early Blight, Late Blight, Gray Leaf Spot, Gray Leaf Mold, Septoria Leaf Spot, Anthracnose, Alternaria Fruit Rot or Black Mold, Rhizoctonia Fruit Rot, Botrytis Gray Mold* - Begin when conditions favor disease development. Repeat at 7 to 10 day intervals or more frequently under severe conditions. Do not apply more than 47 gal. per 1,000 sq. ft. per season.

## FRUIT DISEASES

Apply full coverage spray to the point of runoff to thoroughly cover tree canopy including undersides of leaves.

**PEACH, NECTARINE, APRICOT, CHERRY, PLUM, PRUNE:** *Peach Leaf Curl; Coryneum Blight (Shothole) on Peach, Nectarine, Apricot* - Spray foliage to point of runoff. Make one application at leaf fall in late autumn. Make one or two additional applications in mid to late winter before buds begin to swell. Where Coryneum Blight (Shothole) occurs, apply an additional application one to two weeks after petal fall or at shucksplit (tiny fruit just beginning to form) to prevent fruit infections.

*Brown Rot Blossom Blight* - Make one application at popcorn (pink, red or early white bud stage when first color shows) and a second application at full bloom. If cool, moist weather continues, make an additional application at petal fall.

**CHERRY LEAF SPOT ON CHERRIES AND SCAB ON PEACH, NECTARINES AND APRICOT** - In addition to the bloom applications listed above, make one application at shucksplit. Do not apply after shucksplit or before harvest. For control of Cherry Leaf Spot after harvest, make one application to foliage within 7 days after fruit is removed. In trees with history of high leaf spot incidence, make a second application 10 to 14 days later.

## ORNAMENTAL DISEASES

Spray foliage to the point of runoff. Begin applications as directed for each species and disease condition cited and repeat on a 7 to 14 day schedule until conditions are no longer favorable for disease development. During periods when conditions favor severe disease incidence, generally cloudy or wet weather, use the shorter interval between applications. For outdoor use only. Do not apply more than 115 gal. per 1,000 sq. ft. per season. Use of this product on home lawns is prohibited.

## BROADLEAF SHRUBS AND TREES

**Ash (Fraxinus)** - Controls Cercospora, Cercosporidium, Cylindrosporium Leaf Spots. First Application: spring bud break.

**Azalea\*, Rhododendron\*** - Controls Phytophthora Die-back, Ovulinia Flower Blight. First Application: new leaf emergence and early bloom.

**Buckeye, Horsechestnut** - Controls Leaf Blotch, Anthracnose. First Application: spring bud break.

**Cherry-Laurel** - Controls Cercospora Leaf Spot. First Application: petal fall

**Crabapple** - Controls Scab, Cedar-Apple Rust, Sphaeropsis Leaf Spot. First Application: spring bud break.

**Dogwood** - Controls Anthracnose (Discula Sp.), Septoria Leaf Spot. First Application: spring bud swell, early bloom.

**Euonymus** - Controls Anthracnose. First Application: spring bud break.

**Firethorn (Pyracantha)** - Controls Scab. First Application: spring bud break.

**Flowering Almond, Quince and Cherry Hawthorn** - Controls Monilinia Blossom/Branch Blight, Rust, Fabraea Leaf Spot. First Application: early bloom, pre-bloom.

**Holly** - Controls Rhizoctonia Web Blight. First Application: warm, moist conditions.

**Mountain Laurel** - Controls Cercospora Leaf Spot. First Application: spring bud break.

**Oak (red group only)** - Controls Taphrina Blister, Actinopelte Leaf Spot, Anthracnose. First Application: dormant bud swell.

**Oregon-Grape (Mahonia)** - Controls Rust. First Application: spring bud break.

**Photinia** - Controls Fabraea (Entomosporium) Leaf Spot. First Application: spring bud break.

**Pieris (Andromeda)** - Controls Phytophthora Die-Back. First Application: new leaf emergence.

**Poplar** - Controls Marssonina Leaf Spot. First Application: spring bud break.

**Privet** - Controls Cercospora Leaf Spot. First Application: prolonged wet conditions.

**Sycamore, Planetree** - Controls Anthracnose. First Application: spring bud break.

**Viburnum** - Controls Powdery Mildew. First Application: mid-summer.

## BULBS AND FLOWERING PLANTS

**Carnation** - Controls Alternaria Leaf Spot/Branch Rot, Botrytis. First Application: transplant of cuttings; cool, moist conditions.

**Chrysanthemum/Daisy** - Controls Mycosphaerella Ray Blight, Septoria Leaf Spot. First Application: transplant of cuttings.

**Geranium** - Controls Botrytis Flower Blight (Gray Mold), Rust. First Application: pre-bloom cool, moist conditions.

**Gladiolus** - Controls Curvularia Leaf/Flower Spot, Botrytis Leaf/Flower Spot. First Application: early propagation

**Hollyhock** - Controls Rust. First Application: early seedling stage.

**Hydrangea\* (foliage only)** - Controls Cercospora & Septoria Leaf Spots, Rust. First Application: early propagation.

**Iris** - Controls Botrytis Blossom Blight, Didymellina Leaf Spot. First Application: cool, moist conditions.

**Lily** - Controls Botrytis Gray Mold (foliar phase), Phytophthora Blight. First Application: pre-bloom.

**Petunia\*** - Controls Botrytis Gray Mold (foliar phase), Phytophthora Blight, Botrytis Blight. First Application: pre-bloom.

**Rose** - Controls Black Spot, Botrytis Blight. First Application: spring bud break.

**Statice** - Controls Anthracnose, Cercospora, Alternaria, Botrytis Leaf Blight. First Application: spring bud break.

**Zinnia** - Controls Powdery Mildew. First Application: first sign of disease.

\* DISCOLORATION OF BLOOMS HAS BEEN NOTED ON CERTAIN VARIETIES WHEN APPLICATIONS ARE MADE DURING FLOWERING.

## FOLIAGE PLANTS

**Dracaena** - Controls Fusarium Leaf Spot. First Application: pre-transplant.

**Leatherleaf Fern** - Controls Ascochyta Blight, Cercospora Leaf Spot, Cylindrocladium Leaf Spot, Rhizoctonia Blight. First Application: spring bud break.

**Parlor Palm (Chamaedorea)** - Controls Bipolaris Leaf Spot (Helminthosporium). First Application: cool, moist conditions.

## FOLIAGE PLANTS Cont.

**Prayer Plant (Maranta)** - Controls Helminthosporium Leaf Spot. First Application: early propagation.

**Oyster Plant (Rhoeo)** - Controls Tan Leaf Spot. First Application: early propagation.

**Philodendron** - Controls Phytophthora Blight, Dactylaria Leaf Spot. First Application: moist conditions.

**Syngonium** - Controls Cephalosporium Leaf Spot. First Application: warm, moist conditions.

### STORAGE AND DISPOSAL

**Storage:** Store and transport in an upright position. Store in a cool dry area inaccessible to children or pets.

**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.

<b>If in Eyes:</b>	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>If on Skin or Clothing:</b>	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>If Inhaled:</b>	<ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li><li>• Call a poison control center or doctor for further treatment advice.</li></ul>

## FIRST AID Cont.

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| <b>If Swallowed:</b> | <ul style="list-style-type: none"><li>• Call poison control center or doctor immediately for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul> |
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## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION:** Harmful if swallowed or absorbed through skin or inhaled. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Avoid breathing spray mist. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

### ENVIRONMENTAL HAZARDS

This pesticide is toxic to aquatic invertebrates and wildlife. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate. This chemical is known to leach through soil into groundwater under certain conditions as a result of label use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

This chemical can contaminate surface water through spray drift. Under some conditions, it may also have a high potential of runoff into surface water for several days to weeks after application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlaying extremely shallow ground water, areas with infield canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas overlaying tile drainage systems that drain to surface water.

**NOTICE:** Buyer assumes all responsibility for safety and use not in accordance with directions. For information on pesticide products (including health concerns, medical emergencies, or pesticide incidents), call the National Pesticide Information Center at 1-800-858-7378.

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 Fung-Onil Multi-Purpose Fungicide RTU**

**ID # 4410**  
(Old ID # 6757224)  
Date: May 6, 2008

**Section I**

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Bonide Products, Inc.	(800) 424-9300
6301 Sutliff Road	(315) 736-8231
Oriskany, NY 13424	

**Section II - Hazardous Ingredients/Identity**

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Hazardous Components (Specific Chemical Identity: Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits	% (Optional)
Chlorothalonil [1897-45-6]	PEL-N/E	TLV-N/E		0.087
Inert Ingredients	PEL-NE	TLV-N/E		99.013

**Section III - Physical Data**

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COLOR: Cloudy white	PHYSICAL FORM: Liquid
ODOR: little to none	pH: 6.5- 8
FLASH POINT: Non-Flammable Aqueous Base	
VAPOR PRESSURE: N/E	SPECIFIC GRAVITY: .996-.999

**Section IV - Health Hazard Data**

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EMERGENCY OVERVIEW: A cloudy white odorless, flowable liquid.  
EFFECTS OF OVER EXPOSURE  
EYES: Human experience indicates that this product may cause mild to severe irritation, depending on degree of exposure. No evidence of permanent damage has been found.  
SKIN: Mildly irritating to skin. Rarely causes an allergic reaction.  
INHALATION: May cause irritation to the respiratory tract.  
INGESTION: May cause irritation of the gastrointestinal tract following ingestion of large amounts.

**Section IV - First Aid**

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IF SWALLOWED: Do not induce vomiting or give anything by mouth to an unconscious person. Seek medical attention.  
IF INHALED: Remove person from contaminated area to fresh air or employ proper respiratory protection until adequate ventilation or other control measure is restored. If symptoms develop, seek medical attention.  
IF ON SKIN: Wash thoroughly with soap and water. Remove contaminated clothing and footwear. Wash clothing and decontaminate footwear before reuse. Seek medical attention if irritation persists.  
IF IN EYES: Flush eyes with plenty of water. Call a physician if irritation persists.  
NOTE TO PHYSICIAN: Persons having temporary irritation symptoms respond to treatment with antihistamines or steroid creams and/or systemic steroids.

**Section V - Fire and Explosion Hazards**

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FLASH POINT: Aqueous liquid non-flammable. AUTO IGNITION: N/A  
EXTINGUISHING MEDIA: Water Fog, CO<sub>2</sub>, or Chemical Foam  
HAZARDOUS DECOMPOSITION PRODUCTS: May decompose under fire conditions to emit gases and vapors that may be toxic and irritation to the respiratory tract.  
HAZARDOUS POLYMERIZATION: Not known to occur.

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## Section VI - Spill and Leak Procedures

This product is toxic to fish. Keep out of lakes, streams or ponds. Contain spill. Remove as much as possible by shoveling and sweeping. Place contaminated materials in closed, labeled containers and store in a safe place to await proper disposal. Do not contaminate water while cleaning equipment or disposing of wastes. Persons performing this work should wear adequate personal protective equipment and clothing.

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## Section VII - Storage and Handling

**STORAGE:** Keep pesticide in original container. Avoid contamination of food and foodstuffs. Store in a cool, dry place, preferably in a locked storage area. Do not allow product to freeze. Keep out of reach of children.

**HANDLING:** Do not get in eyes, on skin or on clothing. Wear safety glasses or goggles. Wear long sleeved shirt, long pants, and rubber gloves while mixing and applying this product. Wash skin and hands thoroughly after using. Remove and wash contaminated clothing before reuse. Keep children and pets off treated area until dry.

**RESPIRATOR TYPE:** Avoid breathing spray mist. NIOSH approved dust mask or respirator.

**EYE PROTECTION:** Protective eyewear should be worn against possible liquid splash or spray mist.

**GLOVES:** Waterproof rubber or nitrile gloves..

**OTHER PROTECTION:** Wear long sleeved shirt, long pants, full footwear, and rubber gloves while applying this product. Use local ventilation indoors. Outside apply up wind of spray.

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## Section X - Reactivity Data

**STABILITY:** Stable. Water base product. **POLYMERIZATION:** Will not occur

**CONDITIONS TO AVOID:** Storage above temperatures above 100 degrees will lead to non-hazardous decomposition.

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## Section XII - Ecological Information

This product is toxic to fish and other aquatic organisms. Do not apply directly to water. Do not contaminate water by disposal of equipment washwaters. Do not apply when weather conditions favor drift of spray.

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## Section XIII - Disposal

Do not re-use empty containers. Wrap and discard in trash.

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## Section XIV - Transportation

D.O.T. Shipping Name: CT Multi Purpose Fungicide Ready-to-Use

D.O.T. Hazard Class: Not Regulated

D.O.T. Labels Required: None Required

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## Section XVI - Other Information

**NOTICE FROM BONIDE:** The information contained herein is offered only as a guide to the handling of this specific material. Since such information does not relate to use of the material with any other material or in any process, any person using this information must determine for himself its suitability for any particular application. The buyer and user assumes all risk and liability of use, storage and/or handling of this product not in accordance with the terms of the product level.

# KEEP OUT OF REACH OF CHILDREN

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### ABBREVIATION KEY

N/A: NOT AVAILABLE OR APPLICABLE

N/E: NOT ESTABLISHED

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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### DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES

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