



# HOWLER®

## LAWN AND GARDEN

### fungicide

GROUP BM02 FUNGICIDE

Can Be Used in Organic Gardening

**ACTIVE INGREDIENT:**

*Pseudomonas chlororaphis* strain AFS009†..... 50.0%

**OTHER INGREDIENTS:** ..... 50.0%

**TOTAL:** ..... 100.0%

†Contains not less than 1 X 10<sup>6</sup> cfu/g of product.

KEEP OUT OF REACH OF CHILDREN

# CAUTION

## FIRST AID

**IF INHALED:**

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.
- Call a poison control center or doctor for treatment advice.

**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 eye.
- Call a poison control center or doctor for treatment advice.

**IF ON SKIN OR CLOTHING:**

- 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 SWALLOWED:**

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- 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.

## HOTLINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.  
You may also contact 1-800-222-1222 for emergency medical treatment information.

EPA REG. NO.: 91197-3-92488

EPA EST. NO.: 92488-NC-01

NET WEIGHT: 4 OZ

BATCH/LOT NO.

**Manufactured for:**

AgBiome Innovations®, Inc.  
104 TW Alexander Drive Building 18  
Research Triangle Park, NC 27709

# AGBIOME

INNOVATIONS®

Howler® Lawn and Garden Organic Fungicide; EPA Reg. No. 91197-3-92488  
Label version (34) January 12, 2021

## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION:** Harmful if inhaled, absorbed through the skin, or swallowed. Causes moderate eye irritation. Avoid breathing dust or spray mist. Avoid contact with skin, eyes or clothing. Remove and wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

### ENVIRONMENTAL HAZARDS

This product may be toxic to bees and other pollinating insects exposed to direct treatment. Do not apply this product while bees or other pollinating insects are actively visiting the treatment area. This product may be toxic to certain nontarget terrestrial arthropods.

To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems.

## DIRECTIONS FOR USE – HOME AND GARDEN AND TURF

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

### HOME AND GARDEN USE DIRECTIONS

Howler® Lawn and Garden Fungicide is a biological fungicide for use to control or suppress diseases in bedding plants, annuals and perennials, home vegetable gardens, and ornamental trees and shrubs. Diseases controlled or suppressed include: Anthracnose (*Colletotrichum graminicola*), Botrytis (*Botrytis* spp.), Early Blight (*Alternaria solani*)\*, Gray Mold (*Botrytis cinerea*), Late Blight (*Phytophthora infestans*), *Pythium*, *Fusarium*\*, and *Rhizoctonia*. Howler® Lawn and Garden Fungicide must be mixed with water and may be applied as a soil drench or foliar spray.

\*Not for use in California.

#### WHEN TO USE

For best results, apply Howler® Lawn and Garden Fungicide at the time of planting and at the first sign of disease. Repeat applications for plant diseases every 7 – 14 days.

#### BEFORE YOU USE

Read and follow these directions when using:

- Do not allow spray to drift from application site.
- Use only with pressurized hand-held sprayers, backpack sprayers, or spray trigger bottles.

## HOW TO USE FOR PRESSURIZED HAND-HELD SPRAYERS, BACKPACK SPRAYERS AND SPRAY TRIGGER BOTTLES

- Fill sprayer or bottle with appropriate amount of water and Howler® Lawn and Garden Fungicide.
- Mix the spray solution thoroughly.
- Keep the spray solution agitated during application.

## HOW MUCH TO USE FOR ALL APPLICATIONS

3.5 - 5 tablespoons of Howler® Lawn and Garden Fungicide per gallon of water.

### TURF USE DIRECTIONS

Use on all cool and warm season turfgrass varieties including Bentgrass, Bluegrass, Bermudagrass (common and hybrid), Fescue, Ryegrass, St. Augustine, Zoysia, Paspalum and Poa Annua. Use in or on residential lawns and all ornamental grass varieties.

For target plant diseases see Turf Application Table.

### WHEN TO USE

Apply Howler® Lawn and Garden Fungicide throughout the growing season on all types of turfgrass varieties. Apply when ground temperature has reached 45°F (7°C) or above until late fall prior to light frost. Begin applications prior to when environmental conditions are conducive to disease development and throughout periods of disease and stress.

## TURF APPLICATIONS

TARGET DISEASE	APPLICATION RATE	APPLICATION INTERVAL	APPLICATION VOLUME	REMARKS
<b>Anthracnose*</b> <i>(Colletotrichum graminicola)</i>  <b>Brown Patch</b> <i>(Rhizoctonia spp.)</i>  <b>Dollar Spot**</b> <i>(Sclerotinia)</i>  <b>Fusarium Patch*</b> <i>(Fusarium nivale)</i>  <b>Pythium Blight</b> <b>Pythium Root Rot</b> <b>Pythium Crown Rot</b> <i>(Pythium spp.)</i>	3.5 – 5 tablespoons per gallon of water	7 – 21 days	<b>Root Diseases:</b> Spray at a rate of 2 – 4 gallons of diluted Howler® per 1000 square feet of turf to ensure soil penetration.  <b>Foliar Diseases:</b> Spray at a rate of 1 – 6 gallons of diluted Howler® per 1000 square feet of turf to provide thorough coverage.	Begin applications prior to when conditions are conducive to disease development. Continue applications throughout periods of disease and stress.

\*Not for Use in California

\*\*Suppression of Dollar Spot requires preventative applications and better suppression is noted in moderate to low disease pressure.

## STORAGE AND DISPOSAL

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

**Pesticide Storage:** Store in a cool, dry place. Avoid overheating.

**Pesticide Disposal and Container Handling:** Nonrefillable container. Do not reuse or refill this container. **If empty:** Place in trash or offer for recycling, if available. **If partially filled:** Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

Uses of Howler® Lawn and Garden Fungicide other than those specified on this label are not licensed or otherwise authorized through the purchase of this product and the use of this product for other purposes including research and/or experimental uses are expressly prohibited without the written consent of AgBiome Innovations®, Inc.

**CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY**

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the unopened product at once, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risk inherently associated with the use of this product. Plant injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather, plant conditions, presence of other materials or other influencing factors in the use of this product, which are beyond the control of AgBiome Innovations®, Inc. or Seller. To the extent consistent with applicable law, Buyer and User agree to hold AgBiome Innovations®, Inc. and Seller harmless for any claims relating to such factors.

AgBiome Innovations®, Inc. warrants that this product conforms to the description on this label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with the directions under normal use conditions. To the extent consistent with applicable law, (1) this warranty does not extend to the use of this product contrary to this label or under conditions not reasonably foreseeable to or beyond the control of the Seller or AgBiome Innovations®, Inc., and (2) Buyer and User assume the risk of any such use. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, AGBIOME INNOVATIONS®, INC. MAKES NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER AND THE EXCLUSIVE LIABILITY OF AGBIOME INNOVATIONS®, INC. AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF AGBIOME INNOVATIONS®, INC. OR SELLER, THE REPLACEMENT OF PRODUCT.

AgBiome Innovations®, Inc. and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by the written agreement signed by a duly authorized representative of AgBiome Innovations®, Inc.

EPA registration held by AFS009 Plant Protection, Inc. P.O. Box 14069, Research Triangle Park, NC 27709.

# HOWLER®

## LAWN AND GARDEN

### fungicide

**ACTIVE INGREDIENT:**

*Pseudomonas chlororaphis* strain AFS009† ..... 50.0%

**OTHER INGREDIENTS:** ..... 50.0%

**TOTAL:** ..... 100.0%

†Contains not less than 1 X 10<sup>8</sup> cfu/g of product.

**KEEP OUT OF REACH  
OF CHILDREN**

**CAUTION**

**FIRST AID**

<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 mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<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 SWALLOWED:</b>	<ul style="list-style-type: none"> <li>• Call a 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>

**HOT LINE NUMBER**

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

You may also contact 1-800-222-1222 for emergency medical treatment information.

**PRECAUTIONARY STATEMENTS****HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION:** Harmful if inhaled, absorbed through the skin, or swallowed. Causes moderate eye irritation. Avoid breathing dust or spray mist. Avoid contact with skin, eyes or clothing. Remove and wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

**STORAGE AND DISPOSAL**

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

**Pesticide Storage:** Store in original container in a cool, dry place. Avoid overheating.

**Pesticide Disposal:** To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

**Container Handling:** Nonrefillable container. Do not reuse or refill this container.

Completely empty bag into application equipment. Then, offer for recycling if available, or dispose of empty bag in a sanitary landfill or by incineration. Do not burn, unless allowed by state and local ordinances. If burned, stay out of smoke.

See label booklet for additional Precautionary Statements and Directions for Use.

**EPA Reg. No.:** 91197-3-92488

**EPA Est. No.:** 92488-NC-01

**Manufactured for:**

AgBiome Innovations®, Inc.  
104 TW Alexander Drive Building 18  
Research Triangle Park, NC 27709

HF01122021(34)