

# AGRIPHAGE



## FOR ORGANIC PRODUCTION

### Bactericide for use on tomatoes and peppers

Biological control for bacterial spot and bacterial speck on tomatoes and peppers

#### ACTIVE INGREDIENTS:

Bacteriophage active against *Xanthomonas campestris* pv. *vesicatoria* and

*Pseudomonas syringae* pv. *tomato*\* ..... **0.000046%**

#### OTHER INGREDIENTS:

..... **99.999954%**

**Total:** ..... **100.000000%**

\*(Contains at least 1.55 x 10<sup>13</sup> plaque-forming units (PFU) per gallon of product)



# AgriPhage™

Keep Out of Reach of Children

## CAUTION



**OMNILYTICS™**  
THE PHAGE COMPANY

See side panel for additional precautionary statements  
EPA Reg. No. 67986-1 EPA Est. No. 67986-UT-001

Manufactured by: OmniLytics, Inc. 9075 South Sandy Parkway, Sandy, UT 84070 801-746-3600 www.omnilytics.com

#### First Aid

- 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.

#### Hotline Number

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For non-emergency information concerning this product, call the National Pesticide Information Center (NPIC) at 1-800-858-7378, Monday through Friday, 8:00 a.m. to 12:00 p.m. Pacific Time (NPIC Web site: www.npic.orst.edu). For emergencies, call your poison control center at 1-800-222-1222.

Batch Code:

**Net Contents: 2.5 gal.**

ESL 20191202 rev AP-310523G

## PRECAUTIONARY STATEMENTS

### Hazards to Humans and Domestic Animals

**CAUTION:** Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

### Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt
- Long pants
- Waterproof gloves
- Shoes plus socks

Mixers/loaders and applicators must wear a minimum of a NIOSH-approved particulate filtering facepiece respirator with any N, R, or P filter. OR a NIOSH-approved elastomeric particulate respirator with any N, R, or P filter. OR a NIOSH-approved powered air-purifying respirator with an HE filter. Repeated exposures to high concentrations of microbial proteins can cause allergic sensitization.

Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

### User Safety Recommendations

User should:

Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

### Environmental Hazards

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 washwater or rinsate.

## 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 in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

**CHEMIGATION:** Refer to supplemental labeling entitled "AGRIPHAGE CHEMIGATION" for use directions for chemigation. Do not apply this product through any irrigation system unless the supplemental labeling on chemigation is followed.

## Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), restricted-entry interval, and notification to workers. The requirements in this box apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 4 hours.

Do not enter or allow workers to enter the treated greenhouse or enclosed space until the ventilation requirements in 40 CFR 170.405(b)(3) have been met and the REI of 4 hours has expired. Until then, only handlers wearing the appropriate personal protective equipment can enter the greenhouse or enclosed space.

PPE required for early entry to treated areas (that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water) is:

- Coveralls
- Waterproof gloves
- Shoes plus socks

**Product Information** AGRIPHAGE is a bactericide that is comprised of a formulation of bacteriophage to be used as a preventive and curative product for the control of bacterial spot (caused by the bacterium *Xanthomonas campestris* pv. *vesicatoria*) and bacterial speck (caused by the bacterium *Pseudomonas syringae* pv. *tomato*) on tomatoes and peppers. Apply AGRIPHAGE as a preventive to protect growing leaf tissue, as a curative when the first disease symptoms are visible, or when conditions are conducive to heavy disease pressure. In the greenhouse, apply AGRIPHAGE as a foliar spray or by fogging. In the field, apply AGRIPHAGE with conventional ground spray equipment or via aerial application immediately after planting and as the plants mature. See the Mixing Instructions and Compatibility Information and Applications Instructions sections of this label for additional details.

### Mixing and Application Instructions

#### **-MIX WELL PRIOR TO USE-**

**GROUND TANK MIX INSTRUCTIONS:** Mix 1-2 pints of AGRIPHAGE in 50-100 gallons of water. If mechanical mixing is available when preparing the spray solution, agitation ensures proper blending.

**AERIAL TANK MIX INSTRUCTIONS:** Mix 1-2 pints of AGRIPHAGE in a minimum of 5 gallons of water. If mechanical mixing is available when preparing the spray solution, agitation ensures proper blending.

**COMPATIBILITY:** Do not combine AGRIPHAGE in the spray tank with denaturing agents or copper salts. Apply AGRIPHAGE in approved tank mixes or in an alternating spray program, applying denaturing agents or copper salts 4 days after AGRIPHAGE application, as copper salts and denaturing agents compromise bacteriophage survival. AGRIPHAGE is compatible with several commonly used fungicides, liquid fertilizers, herbicides, and insecticides, but has not been fully evaluated with all of these. To ensure compatibility of tank-mix combinations, please consult with an OmniLytics representative prior to tank mixing. AGRIPHAGE cannot be mixed with another product with a prohibition against mixing. Use of the tank mix must be in accordance with the more restrictive label limitations and precautions.

**Application Instructions**

**Greenhouse Seedling Treatment**

CROP	PEST	RATE	PRE-HARVEST INTERVAL (PHI)	APPLICATION
Tomato & Pepper	Tomato & Pepper Spot ( <i>Xanthomonas campestris</i> pv. <i>vesicatoria</i> ) Tomato Speck ( <i>Pseudomonas syringae</i> pv. <i>tomato</i> )	1 pint of AGRIPHAGE per 50-100 gallons of water per 9600 square feet of greenhouse space	AGRIPHAGE may be applied up to and including the day of harvest.	Apply daily treatments to foliage by spraying or fogging. Begin applications to seedlings, (at the 4-leaf stage), immediately after planting, as a preventive to protect the growing leaf tissue or as a curative when the first disease symptoms are visible. Use sufficient spray solution to ensure complete coverage. Avoid excessive amounts of spray solution that result in runoff.

**Field Treatment – Ground Application**

CROP	PEST	RATE	PRE-HARVEST INTERVAL (PHI)	APPLICATION
Tomato & Pepper	Tomato & Pepper Spot ( <i>Xanthomonas campestris</i> pv. <i>vesicatoria</i> ) Tomato Speck ( <i>Pseudomonas syringae</i> pv. <i>tomato</i> )	1 to 2 pints of AGRIPHAGE per 50-100 gallons of water per acre	AGRIPHAGE may be applied up to and including the day of harvest.	Begin applications as a preventive to protect the growing leaf tissue or as a curative when the first disease symptoms are visible. Continue throughout the growing season. Begin at the lower application rate of 1 pint of AGRIPHAGE per acre at planting (below the second tie). As plants increase in size and foliage (at or above the second tie), increase application rate to 2 pints of AGRIPHAGE per acre to ensure adequate coverage. Repeat application 1-3 times per week. Use sufficient spray solution to ensure complete coverage. Avoid excessive amounts of spray solution that result in runoff. Under severe disease conditions and periods of heavy rain, apply immediately after rainfall, and use the higher application rate of 2 pints of AgriPhage per acre.

**Field Treatment – Aerial Application**

Apply AGRIPHAGE by aerial application to field-grown tomato and pepper crops at the rate of 1-2 pints per acre in a minimum of 5 gallons of water per acre. Increasing the amount of water applied per acre may improve product performance. Follow the Application Notes in the Field Treatment – Ground Application section for information on items like application timing and the instructions in the Aerial Drift Reduction Information section to reduce aerial drift.

**Aerial Drift Reduction Information**

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment- and weather-related factors determines the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

<b>Storage and Disposal</b>	
Do not contaminate water, food, or feed by storage or disposal.	
Pesticide Storage:	Store this product in a cool, dry area, away from direct sunlight and extreme heat. Direct sunlight and/or extreme heat may cause degradation of the product and decrease product efficacy.
Pesticide Disposal:	Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.
Container Handling:	Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**Warranty Statement**

OmniLytics, Inc. warrants that this material conforms to the description on the label and is reasonably fit for the purposes referred to in the Directions for Use. To the extent consistent with applicable law OmniLytics, Inc. makes no other express or implied warranty of fitness or merchantability or any other express or implied warranty. To the extent consistent with applicable law, in no case or circumstance shall OmniLytics, Inc. or seller be liable for consequential, special or indirect damages resulting from the use or handling of this product including but not limited to, loss of profits, business reputations, or customers; labor cost; or any other expenses incurred in planting, cultivating or harvesting.