
SECTION 1: Identification

PRODUCT NAME: AGRIPHAGE™
EPA Registration #: 67986-1-70051
DISTRIBUTOR: Certis USA LLC
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PRODUCT USE: Used for treatment of bacterial disease in agricultural crops, notably bacterial spot and speck (*Xanthomonas campestris* pv. *vesicatoria* and *Pseudomonas syringae* pv. *tomato*)

SECTION 2: Hazard(s) Identification

Classification according to the Hazard Communication Standard (HCS):



Mild Skin and Eye Irritant

HAZARD STATEMENTS: CAUTION, Keep out of Reach of Children

Physical Hazards:

Explosive:	No
Flammable:	No
Oxidizing:	No
Gases under Pressure:	No
Self-Reactive:	No
Phosphoric:	No
Corrosive:	No
CARCINOGEN:	No

Health Hazards:

Acute Toxicity:	Category 5
Skin Corrosion:	No
Skin Irritation:	Category 3
Eye Irritation:	Category 2B
Sensitization:	No

Environmental Hazard:

No known environmental hazards.
EPA Registration # 67986-1-70051

Routes of Entry: Dermal, Eyes, Inhalation, Ingestion

SECTION 3: Composition/Information on Ingredients

Chemical Name: Bacteriophage active against *Xanthomonas campestris* pv. *vesicatoria* and *Pseudomonas syringae* pv. *tomato*.
Common Name: AGRIPHAGE™
EPA Registration #: 67986-1-70051

Active Ingredient: 0.000046%
Inert Ingredients: 99.999954%

SECTION 4: First-Aid Measures

General Information: Immediately remove any clothing soiled by the product.

Symptoms: Possible symptoms may be eye and skin irritation.

Dermal: Rinse skin immediately with plenty of water for 15-20 minutes. If skin irritation continues, consult a doctor.

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. If eye irritation continues, consult a doctor.

Inhalation: Supply fresh air. Consult doctor if symptoms persist.

Ingestion: Drink 2-3 glasses of water. Consult doctor if symptoms persist.

SECTION 5: Fire-Fighting Measures

AGRIPHAGE™ is Non-Flammable.

Suitable Extinguishing Media:	Any
Specific Hazards:	None known
Advice for Firefighters:	No special advice

SECTION 6: Accidental Release Measures

If material is spilled or released, recover free product. Use absorbent material to minimize runoff of spilled product, clean up with absorbant cloth and mild cleanser as normal.

SECTION 7: Handling and Storage

Container Handling: Non-refillable 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 ¼ 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.

Method of Storage: Store at or below room temperature. Product in packaging should be stored in a secure, protected area. Shaded or darkened space is recommended. Moisture and humidity should be kept to a minimum to maintain integrity of corrugated paper packaging.

SECTION 8: Exposure Controls/Personal Protection

RESPIRATORY PROTECTION: Avoid spray mist.

VENTILATION: Use under ventilated conditions.

PROTECTIVE CLOTHING: Long Sleeved Shirt, Long Pants, Waterproof Gloves, Shoes plus socks.

EYE PROTECTION: Avoid contact with eyes. Use eye protection.

HYGIENIC PRACTICES: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

SECTION 9: Physical and Chemical Properties

General Information

Appearance:	
Form:	Liquid
Color:	Golden Yellow
Odor:	None to Slight
Odor Threshold:	Not Determined
pH:	6.0-7.5
Freezing Point:	0°C (32°F)
Boiling Point:	100°C (212°F)
Flash Point:	Not Applicable
Evaporation Rate:	Not Determined
Flamability:	Not Applicable
Dangers of Explosion:	Product does not present an explosion hazard.
Vapor Pressure:	Not Determined
Vapor Density:	Not Determined
Relative Density to water:	1.003 - 1.005 g/ml
Solubility:	Fully Miscible
Partition Coefficient:	Not Determined
Autoignition Temperature:	Product is not selfigniting
Decomposition Temperature:	Not Determined

SECTION 10: Stability and Reactivity

Chemical Stability:	Stable
Hazardous Reactions:	None known
Conditions to Avoid:	No known conditions to avoid.
Incompatible Materials:	None known
Hazardous Decomposition Products:	No dangerous decomposition products known.

SECTION 11: Toxicology Information

Dermal

Symptoms:	Mild skin irritation
Delayed/Long-Term Effects:	No known delayed or long-term effects.
Dermal LD ₅₀ :	>5,000 mg/kg

Eyes

Symptoms:	Mild eye irritation
Delayed/Long-Term Effects:	No known delayed or long-term effects.
Draize Score @ 24 Hours:	0.7

Inhalation

Symptoms:	None known
Delayed/Long-Term Effects:	No known delayed or long-term effects.
Acute Inhalation LC ₅₀ :	>2.10 mg/L

Ingestion

Symptoms:	None known
Delayed/Long-Term Effects:	No known delayed or long-term effects.
Measures of Toxicity:	Not Determined

SECTION 12: Ecological Information

AGRIPHAGE™ has no known hazards to any ecological systems.

SECTION 13: Disposal Considerations

WASTE DISPOSAL METHOD: Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Triple rinse empty containers and offer for recycling, or puncture and dispose of in an approved sanitary landfill.

SECTION 14: Transport Information

D.O.T. Transportation Information (49 CFR §172.101)

UN Number: None
Proper Shipping Name: None
Hazard Class: None
Packaging Group: Not Applicable

SECTION 15: Regulatory Information

AGRIPHAGE™ is registered with the U.S. Environmental Protection Agency.
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SECTION 16: Other Information

To the best of our knowledge, the information contained herein is accurate. However, neither Certis USA LLC nor any of its subsidiaries assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All material may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.

SDS Authoring Information:

Revision date:	January 28, 2019
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Reason for Revision	New Product
SDS Prepared by:	Certis USA LLC
