

Version: 2.0

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Section 1 - Chemical Product and Company Identification

Product Name: Ecophage GoldenEco

Producer: EcoPhage LTD

Address: Pinhas sapir 3, Ness Ziona, Israel.

Phone: +972-72-2607007

Product use: Used for treatment of bacterial disease in agricultural crops, notably Bacterial speck and Bacterial spot (*Pseudomonas syringae* pv. tomato, *Xanthomonas vesicatoria*, *Xanthomonas perforans*, *Xanthomonas gardneri* and *Xanthomonas euvesicatoria*) in tomato and pepper plants.

GoldenEco is a lab scale sample, water-based bacteriophage formulation.

Section 2 - Hazards Identification

Classification of the substance or mixture:

Not a hazardous substance or mixture.

Label elements:

Not a hazardous substance or mixture

Environmental Hazard:

No known environmental hazards.

EPA Registration: N.A.

This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher.

Section 3 - Composition/Information on Ingredients

GoldenEco lab composition – Proprietary formulation. Combination of water, surfactant, adjuvants, bacteriophages.

Components:

No hazardous ingredients

Section 4 - First Aid Measures

Inhalation: If breathed, bring the person to a well-ventilated area with fresh air. Contact a physician if symptoms persist.

Skin: Wash skin with plenty of water. Contact a physician if symptoms persist.

Eyes: Flush eyes with large quantities of running water for a minimum of 15 minutes. Remove contact lenses. Rinse the entire surface of the eye and lid with water. Call a physician if eye irritation occurs.

Ingestion: Harmful if swallowed. Seek medical care. Do not induce vomiting.

Section 5 - Fire Fighting Measures

Extinguishing media:

Use media appropriate to surrounding fire. May use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Firefighting procedures:

Use a stream of water to cool containers and surfaces exposed to fire and to dissipate vapors. Use a self-contained respirator. Do not allow run-off from firefighting to enter drains or water courses.

Other fire or Explosion Hazards:

Fire residues and contaminated fire extinguishing water should be disposed of in accordance with local regulations.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures Personal precautions:

Ensure adequate ventilation. Use personal protective equipment.

Environmental precautions Environmental precautions:

Prevent product from entering drains.

Methods and material for containment and cleaning up Methods for cleaning up :

Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.

Small release: Stop leak or spill. Collect for re-use. Contain runoff by diking. Prevent spills from entering water courses, basement or closed area. Wear appropriate personal protective equipment for cleanup.

Release to water: Reclaim as much product as possible to avoid further contamination.

Section 7 - Handling and Storage

Handling:

Handle in accordance with good industrial hygiene and safety practice. Wear suitable personal protective equipment. Avoid inhalation and prolonged or repeated contact with eyes and skin.

Normal measures for preventive fire protection.

Hygiene measures:

Handle in accordance with good industrial hygiene and safety practice.

Storage:

Store in a dry, ventilated area, away from food and seed. Keep at ambient temperature. Keep out of reach of children. Store in the original container. Keep container tightly closed. No special restrictions on storage with other products.

Stability:

Stable under recommended storage conditions.

Section 8 - Exposure Controls and Personal Protection

Exposure limits: N.A.

Personal protection:

Skin contact with the product should be prevented with the use of appropriate protective clothing and gloves. Wear safety glasses with side-shields to avoid eye contact.

Respiratory:

If dust is generated, use respiratory mask.

Ventilation:

Provide good ventilation if dusty conditions prevail.

Section 9 - Physical and Chemical Properties

Physical state: Liquid

Color: clear

Odor: None to Slight

Density: 1 – 1.1 gr/cm³ (20°C)

Solubility: Water Soluble

pH: 6.5-7.5

Section 10 - Stability and Reactivity

Under Normal Conditions: Stable

Under Fire Conditions: Stable

Hazardous Polymerization: Will not occur.

Conditions to Avoid: Extreme temperatures.

Materials to Avoid: N.A.

Hazardous Decomposition or Combustion Products: N.A.

Section 11 - Toxicological Information

Recommended Exposure Limit: N.A.

Toxicological Data: N.A.

Carcinogenicity Data: Ingredients of this products are not listed as carcinogens by OSHA or NTP and are not rated by IARC or ACGIH.

Reproductive Effects: N.A.

Mutagenicity Data: N.A.

Teratogenicity Data: N.A.

Synergistic Materials: N.A.

Section 12 - Ecological Information

Toxicity to fish: N.A.

Biodegradability: Remarks: Expected to be biodegradable

Bioaccumulation: N.A.

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

The substance/mixture does not contain components considered to have endocrine disrupting

Section 13 - Disposal Considerations

properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Suitable for use as agricultural applications.

Consult local authorities. Do not dispose of waste with normal garbage or into water systems.

Section 14 - Transport Information

UN number: Not regulated as a dangerous good.

UN proper shipping name: Not regulated as a dangerous good.

Transport hazard class(es): Not regulated as a dangerous good.

Packing group: Not regulated as a dangerous good.

Environmental hazards: Not regulated as a dangerous good.

Section 15 - Regulatory Information

Lab sample.

Section 16 - Other Information

N.A.