

SAFETY DATA SHEET

1. IDENTIFICATION

Product Identifier: GS-omega/kappa-HxTx-Hv1a Bioinsecticide Liquid Concentrate
Trade Names: Spear Liquid Concentrate, Spear T Liquid Concentrate, Spear O Liquid Concentrate, VST-006340 LC
Recommended Use: Biological Insecticide

MANUFACTURER:

Vestaron Corporation
4717 Campus Drive, Suite 1200
Kalamazoo, Michigan 49008
(269) 372-3108

EMERGENCY TELEPHONE NUMBER:

1-800-222-1222

2. HAZARDS IDENTIFICATION

GHS Classification:	Not classified
Signal Word:	Not applicable
Hazard Statements:	Not applicable
Precautionary Statements:	Not applicable
Unclassified Hazards:	Causes mild eye irritation
Percentage of Ingredients with Unknown Toxicity:	Zero

3. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	CAS No.	% (wt/v)	% (wt/wt)
GS-omega/kappa-Hxtx-Hv1a	1219988-33-6	2	1.95
1,2-benzisothiazolin-3-one	2634-33-5	<0.5	<0.53

4. FIRST AID MEASURES

EYE CONTACT: Immediately flush with water. Seek medical attention if irritation persists.

INHALATION: Remove individual to fresh air. If signs of toxicity occur, seek medical attention.

SKIN CONTACT: Wash affected area with plenty of soap and water.

INGESTION: Remove from source of exposure. If signs of toxicity occur, seek medical attention.

MOST IMPORTANT SYMPTOMS: Causes mild eye irritation.

IMMEDIATE MEDICAL ATTENTION NEEDED: None needed.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: All methods. However, the product is non-flammable.

SPECIFIC HAZARDS ARISING FROM CHEMICAL: None known.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS: None known.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES: Avoid breathing dust. Ventilate and wash the spill area effects of the spill.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:
Recover product and place in an appropriate container for disposal.

7. HANDLING and STORAGE

PRECAUTIONS FOR SAFE HANDLING: Avoid contact with skin and eyes.

CONDITIONS FOR SAFE STORAGE: Store in original container at

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS: None assigned.

ENGINEERING CONTROLS: Use outdoors or in a well-ventilated area.

PERSONAL PROTECTION: Wear impervious gloves, protective clothing, and safety goggles.

9. PHYSICAL and CHEMICAL PROPERTIES

APPEARANCE: Brown

ODOR THRESHOLD: Not determined

EVAPORATION RATE: Not determined

VAPOR PRESSURE: Not determined

RELATIVE DENSITY: 1.03 g/mL

ODOR: Sweat Yeast

FLASH POINT: Not determined

FLAMMABILITY: Not flammable

MELTING POINT: Not determined

BOILING POINT: Not determined

SOLUBILITY in water: Soluble
FLAMMABILITY LIMITS: Not determined
AUTO-IGNITION TEMP: Not determined
PARTITION COEFFICIENT: Not determined

VAPOR DENSITY: Not determined
VISCOSITY: 1.6 (20°C)
pH: 5.0-5.2
DECOMPOSITION TEMP: Not determined

10. STABILITY and REACTIVITY

REACTIVITY: Non-reactive.
STABILITY: Stable.
HAZARDOUS POLYMERIZATION: Does not occur.
CONDITIONS TO AVOID: No data available.
INCOMPATIBILITY: No data available.
HAZARDOUS THERMAL DECOMPOSITION PRODUCTS: None.

11. TOXICOLOGICAL DATA

INHALATION: No data available.
SKIN CONTACT: LD₅₀ Greater than 5000 mg/kg.
EYE CONTACT: Causes mild eye irritation.
INGESTION: LD₅₀ Greater than 5000 mg/kg
SENSITIZATION: Not a contact skin sensitizer
CARCINOGENICITY: No ingredients are listed by NTP, OSHA, or ACGIH as a carcinogen.

12. ECOLOGICAL INFORMATION

No data available.

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with applicable local, regional, national, and international regulations.

14. TRANSPORT INFORMATION

Not regulated for transportation.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture
EPA /FIFRA Information:

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals.

· **SARA Title III**

· **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients are listed.

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients are listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

Carcinogenicity categories

· **EPA (Environmental Protection Agency)**

None of the ingredients are listed.

· **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients are listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients are listed.

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**

Not applicable

Signal word:

(USA EPA) CAUTION

· **Precautionary statements**

Causes moderate eye and skin irritation.

Wear protective gloves.

Specific treatment (see on this label).

Wash contaminated clothing before reuse.

If skin irritation or rash occurs: Get medical advice/attention.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

16. OTHER INFORMATION

SDS REVISION DATE: September 27, 2017.