1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

1.1 Product Identifier
MATERIAL NAME: VectoLex® FG Biological Larvicide

Synonyms: VectoLex® CG, VectoLex® G, VectoLex® 7.5 GR, VectoLex® WSP, ABG-6185
EPA Reg No.: 73049-20
Code Number: None
List Number: 05722
Chemical Family: Not applicable; microbial product

Substance Registration Number(s)[REACH]: N/A

1.2 Relevant Identified Uses and Uses Advised Against
Identified Uses: Biological mosquito larvicide
Uses Advised Against: It is a violation of Federal law to use this product in a manner inconsistent with its FIFRA pesticide labeling.

1.3 Details of the supplier of the Safety Data Sheet
Supplied By: Valent BioSciences LLC
1910 Innovation Way, Suite 100
Libertyville, Illinois 60048

1.4 EMERGENCY TELEPHONE NUMBERS
Emergency Health or Spill:
Outside the United States: 651-632-6184
Within the United States: 877-315-9819

2. HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture
Eye Irritation – Category 2B

2.2 Labeling Elements
Symbol(s)
None

Signal Word
WARNING

Hazard Statement(s)
Causes eye irritation
2.3 Precautionary Statement:
   Prevention
   Wash hands and face thoroughly after handling

   Response
   IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

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

2.4 Other Hazards
None identified.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Component Name</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>Bacillus sphaericus 2362, serotype H5a5b, strain ABTS 1743 fermentation solids</td>
<td>7.5</td>
</tr>
<tr>
<td>Trade Secret</td>
<td>Other ingredients</td>
<td>82.5</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

4.1 Description of First Aid Measures
   GENERAL: In all cases of doubt, seek medical attention.

   EYES: Remove from source of exposure. Flush with copious amounts of water. Remove contact lenses, if present and easy to do, after the first 5 minutes, then continue rinsing. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.

   SKIN: Remove from source of exposure. Take off contaminated clothing. Flush with copious amounts of water. If irritation occurs or signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.

   INGESTION: Remove from source of exposure. Move person to fresh air. Do NOT induce vomiting. If signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.

   INHALATION: Remove from source of exposure. If signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary. If person is not breathing, call 911, then give artificial respiration.
4.2 Most important Symptoms and Effects, both Acute and Delayed
   Acute
   Possible eye irritation

   Delayed
   No information on significant adverse effects

4.3 Indication of any Immediate Medical Attention and Special Treatment Needed
   Treat symptomatically and supportively

5. FIRE FIGHTING PROCEDURES

5.1 Extinguisher Media
   Suitable Extinguisher Media
   Dry chemical, water spray, foam or carbon dioxide. Use appropriate medium for the underlying cause of the fire.

   Unsuitable Extinguisher Media
   None known

5.2 Specific Hazards Arising from the Chemical
   Thermal decomposition products
   Carbon oxides, nitrogen oxides

5.3 Advice to Firefighters
   Protective Equipment and precautions for firefighters
   Firefighter should wear full-face, self-contained breathing apparatus and impervious protective clothing. Firefighters should avoid inhaling combustion products. See Section 8 (Exposure Controls / Personal Protection)

   Fire & Explosive hazard
   Not expected to be flammable.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures
   For respiratory protection wear a dust mask. Wear eye protection appropriate to handling activities. Wear gloves. See personal protection as recommended in Section 8.

6.2 Environmental Precautions
   Dispose of excess product and washwaters according to local regulations.
6.3 Methods and Materials for Containment and Cleaning Up
Wear appropriate personal protective equipment. Sweep up material and place in appropriate container for disposal. Avoid generating dust.

6.4 Reference to Other Sections
See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations. See Section 13 for Disposal Considerations.

US Regulations may require reporting spills of hazardous materials: See Section 15: REGULATORY INFORMATION for details on reportable quantities, if any.

7. HANDLING AND STORAGE

7.1 Precautions for Safe handling
For respiratory protection wear a dust mask. Avoid contact with eyes, skin or clothing. Wash thoroughly after handling. Do not eat, drink, chew gum or smoke while working with product, obey reasonable safety precautions and practice good housekeeping.

7.2 Conditions for Safe Storage, Including Incompatibilities
Protect against physical damage. Keep in original containers. Close containers of unused material. Store in a dry, cool place.

Incompatibilities
None Known

7.3 Specific End Use(s)
Pesticide, biological mosquito larvicide

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters
Component Exposure Limits
None
Derived No Effect Levels (DNELs)
No DNELs available
Predicted No Effect Concentrations (PNECs)
No PNECs available

8.2 Exposure Controls
Appropriate Engineering Controls
Provide general ventilation.
SKIN PROTECTION:
Wear protective clothing, including boots and gloves. For filling operations if dust/mist is produced wear a dust mask. Wash thoroughly with soap and water after handling.

EYE PROTECTION:
Wear Goggles, safety glasses with side shields or full-face shield when splashing or spraying of materials is likely.

RESPIRATORY PROTECTION:
Where respiratory protection is warranted, use dust/mist filtering respirator (MSHA/NIOSH approved number prefix TC-21C or a NIOSH approved respirator with any N, P, R or HE filter during application procedures or when repeat exposure is expected.

<table>
<thead>
<tr>
<th>Appearance/Odor:</th>
<th>Tan to Brown fine granules</th>
<th>Odor:</th>
<th>Characteristic odor</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH:</td>
<td>Not Determined</td>
<td>Boiling Point:</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Melting Point:</td>
<td>Not Applicable</td>
<td>Solubility (H₂O):</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Specific Gravity:</td>
<td>Not Determined</td>
<td>Bulk Density:</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Octanol/H₂O Coeff:</td>
<td>Not Determined</td>
<td>Evaporation Rate:</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Auto Ignition:</td>
<td>Not Determined</td>
<td>LFL:</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Flash Point:</td>
<td>Not Determined</td>
<td>UFL:</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Vapor Density:</td>
<td>Not Determined</td>
<td>Vapor Pressure:</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>VOC:</td>
<td>Not Determined</td>
<td>Flammability Class:</td>
<td>None of the components are classified as flammable or highly flammable, it can be concluded that the preparation itself will not be classified as highly flammable.</td>
</tr>
<tr>
<td>Kinematic Viscosity:</td>
<td>Not Determined</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

10. CHEMICAL STABILITY AND REACTIVITY

10.1 Reactivity
Material does not pose a significant reactivity hazard.

10.2 Chemical Stability
Stable under ordinary conditions of use and storage. Spontaneous reaction not possible.

10.3 Possibility of Hazardous Reactions
Does not undergo hazardous polymerization

10.4 Conditions to Avoid
None known
10.5 Incompatible Materials
None known

10.6 Hazardous Decomposition Products
Carbon oxides and unidentified organic compounds.

11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects
LIKELY ROUTES OF EXPOSURE
   Eye Contact: Yes
   Skin Contact: Yes
   Ingestion: No
   Inhalation: No

ACUTE EFFECTS  Product Toxicology Studies
   ORAL TOXICITY: LD$_{50} >$ 5,000 mg/kg
   DERMAL TOXICITY: LD$_{50} >$ 2,000 mg/kg
   INHALATION TOXICITY: LC$_{50} >$ 0.09 mg/L highest attainable concentration
   CORROSIVENESS: Not corrosive.
   DERMAL IRRITATION: slightly-irritating
   OCULAR IRRITATION: Eye irritant – Cat 2B
   DERMAL SENSITIZATION: Skin sensitizer – Cat 1A

MUTAGENICITY INFORMATION: Components of this product are not listed as mutagens.
CARCINOGENICITY INFORMATION: Components of this product are not listed as carcinogenic by
   NTP, IARC or OSHA.
DEVELOPMENTAL/REPRODUCTIVE TOXICITY: This material is not pathogenic
SPECIAL TARGET ORGAN EFFECTS: Eye and mucus membrane Irritation.
   ASPIRATION HAZARD: Not Applicable
   REPEAT DOSE STUDIES: Not Applicable, Pathogenicity Toxicity testing was all
   negative

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity (Data for a Concentrated Technical Powder)
   Fish:  LC$_{50} >$15.5 mg/L (96-H, Rainbow Trout)
   LC$_{50} >$15.5 mg/L (96-H, Blue Gill)
   Bird:  LC$_{50} >$9g /kg (Acute Oral - Mallard)
   Invertebrates: EC$_{50} >$15.5 (48-H) (Daphnia)
   Bees:  Essentially non-toxic to bees
12.2 Persistence and Degradability
   No data available

12.3 Bioaccumulation potential
   Not applicable. Substance is not pathogenic to non-target organisms

12.4 Mobility in Soil
   No data available

12.5 Results of PBT and vPvB assessment
   Assessments not performed

12.6 Other adverse effects
   None known

13. DISPOSAL CONSIDERATIONS

13.1 Waste Disposal Methods
   Dispose of product in accordance with federal, state, provincial, and local regulations. Prevent contamination of environment by wastes.

   US EPA WASTE NUMBER & DESCRIPTIONS:
   There is no applicable EPA waste number. This product, if discarded, is not expected to be a characteristic or listed hazardous waste.

14. TRANSPORTATION INFORMATION

   DOT
   STATUS: Not regulated for domestic ground transport by US DOT

   UN PROPER SHIPPING NAME: N/A
   REMARKS: N/A

   IATA/ICA0
   STATUS: Not Regulated

   PROPER SHIPPING NAME: N/A
   REMARKS: N/A

   IMDG
   STATUS: Not Regulated

   PROPER SHIPPING NAME: N/A
   REMARKS: N/A
15. REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations / Specific Legislation

TSCA STATUS: Exempt
CERCLA STATUS: Not regulated as hazardous
SARA STATUS: Acute: No  Chronic: No  Fire: No  CDT: No
RCRA STATUS: Not regulated as hazardous
State Right-To-Know: Not Listed
Consult applicable national, state provincial or local laws to determine regulations, laws or ordinances which may be applicable.
OSHA HAZARD COMMUNICATION STANDARD: Not defined by the OSHA Hazard Communication Standard, 29 CFR

15.2 EPA Pesticide Regulations
EPA Registration Number: 73049-20
EPA Pesticide Label signal word: CAUTION
Product must have EPA Approved Pesticide Label attached to or accompanying all containers.

This chemical is a pesticide product registered by the United States 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 (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions and limitations for its use.

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION
Causes moderate eye irritation. Harmful if absorbed through the skin or inhaled. Avoid contact with skin, eyes or clothing. Wear protective eyewear. Avoid breathing dust. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.
Mixers/loaders and applicators not in enclosed cabs or aircraft must wear a dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95, or P-95. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.

ENVIRONMENTAL HAZARDS
Do not apply directly to treated, finished drinking water reservoirs or drinking water receptacles when the water is intended for human consumption.
DIRECTIONS FOR USE
It is a violation of Federal law to use this product in a manner inconsistent with its labeling. For use only by federal, state, tribal or local government officials responsible for public health or vector control, or by persons certified in the appropriate category or otherwise authorized by the state or tribal lead pesticide regulatory agency to perform mosquito control applications, or by persons under their direct supervision.

IN CALIFORNIA: This product is to be applied by County Health Department, State Department of Health Services, Mosquito and Vector Control or Mosquito Abatement District personnel, or persons under contract to these entities only.

STORAGE AND DISPOSAL
Do not contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE: Store in cool, dry place.

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. Completely empty bag into application equipment, then offer for recycling if available or dispose of empty bag in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA Hazard Ratings</th>
<th>HMIS Hazard Ratings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health: 1</td>
<td>Health: 1</td>
</tr>
<tr>
<td>Flammability: 0</td>
<td>Flammability: 0</td>
</tr>
<tr>
<td>Instability: 0</td>
<td>Instability: 0</td>
</tr>
</tbody>
</table>

0 = Minimal
1 = Slight
2 = Moderate
3 = Serious
4 = Extreme

REASON FOR ISSUE: Address Change
APPROVAL DATE: 01/08/20
SUPERSEDES DATE: 09/12/18

LEGEND: N/A = Not Applicable  N/D = Not Determined
N/L = Not Listed  L = Listed
C = Ceiling  S = Short-term
(R) = Registered Trademark of Valent BioSciences LLC
(TM) = Registered Trademark of Valent BioSciences LLC
The information provided in this Safety Data Sheet (SDS) is provided in good faith and believed to be accurate at the time of preparation of the SDS. However, to the extent consistent with applicable law, Valent BioSciences LLC and its subsidiaries or affiliates extend no warranties, make no representations, and assume no responsibility as to the accuracy, suitability, or completeness of such information. Additionally, to the extent consistent with applicable law, neither Valent BioSciences LLC nor any of its subsidiaries or affiliates represents or guarantees that this information or product may be used without infringing the intellectual property rights of others. Except to the extent a particular use and particular information are expressly stated on the product label, it is the users’ own responsibility to determine the suitability of this information for their own particular use of this product. If necessary, contact Valent BioSciences LLC to confirm that you have the most current product label and SDS.

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-APPROVED PRODUCT LABEL (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use as required by the Occupational Health and Safety Act (29 CFR 1910.1200, “Hazcom”). The product label provides information specifically for product use in the ordinary course. Use, storage and disposal of pesticide products is regulated by the EPA under the authority of FIFRA through the product label. All necessary hazard classification and appropriate precautionary use, storage, and disposal information is set forth on that label or labeling accompanying the pesticide or to which reference is made on the label. It is a violation of federal law to use an EPA-registered pesticide product in any manner inconsistent with its labeling.