



# VectoLex® WDG Biological Larvicide

SDS# VBC-0045 Revision 4

ISSUED 01/08/20

[Classification according to OSHA; 29 CFR  $\S$  1910.1200, (3/12/2012)]

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

#### 1.1 Product Identifier

MATERIAL NAME: VectoLex® WDG Biological Larvicide

Synonyms: VectoLex® WG, ABG-6491

**EPA Reg No.**: 73049-57 **Code Number**: 82835 **List Number**: 60201

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)

Symbol not required

Signal Word

WARNING

# **Hazard Statement(s)**

Causes eye irritation

# 2.3 Precautionary Statement:

Prevention

Wash hands and face thoroughly after handling



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# 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

CAS#	Component Name	Percent
None	Bacillus sphaericus 2362, serotype H5a5b, strain ABTS 1743 fermentation	51.2
	solids	
Trade Secret	Other ingredients	48.8

# 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.

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# SAFETY DATA SHEET

VALENT BIOSCIENCES.

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# 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

Fire fighter should wear full-face, self-contained breathing apparatus and protective clothing. Fire fighters 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.

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#### SAFETY DATA SHEET



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# 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.



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#### 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.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Odor:	Brown fine granules	Odor :	Faint musty odor
pH:	5.63 (1% sol'n)	Boiling Point:	Not Determined
Melting Point:	Not Applicable	Solubility (H <sub>2</sub> O):	Not Determined
Specific Gravity:	Not Determined	Bulk Density:	Not DeterminedI
Octanol/H <sub>2</sub> O Coeff:	Not Determined	Evaporation Rate:	Not Determined
Molecular Weight:	Not Applicable	Decomposition Temp.:	Not Determined
Auto Ignition:	Not Determined	LFL:	Not Determined
Flash Point:	Not Determined	UFL:	Not Determined
Vapor Density:	Not Determined	Vapor Pressure:	Not Applicable
VOC:	Not Determined	Flammability Class:	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.
Kinematic Viscosity:	Not Determined	·	

# 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





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# 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 (Data for product)

ORAL TOXICITY: LD<sub>50</sub> > 5,050 mg/kg (rat) DERMAL TOXICITY: LD<sub>50</sub> > 5,050 mg/kg (rabbit)

INHALATION TOXICITY:  $LC_{50} > 0.435$  mg/L air (maximum attainable concentration)

CORROSIVENESS: Not corrosive. DERMAL IRRITATION: Slightly irritating OCULAR IRRITATION: Mildly irritating

DERMAL SENSITIZATION: Not a sensitizer (guinea pig)

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 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:  $LC_{50} > 15.5 \text{ mg/L}$  (96-H, Rainbow Trout)

 $LC_{50} > 15.5 \text{ mg/L (96-H, Blue Gill)}$ 

Bird: LC<sub>50</sub> >9g /kg (Acute Oral - Mallard)

Invertebrates: EC<sub>50</sub> >15.5 (48-H) (Daphnia) Bees: Essentially non-toxic to bees

# 12.2 Persistence and Degradability

No data available





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# 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





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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: 73049-57

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.

# KEEP OUT OF REACH OF CHILDREN CAUTION

# PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

# **CAUTION**

Causes moderate eye irritation. Harmful if inhaled. Avoid contact with eyes or clothing and breathing dust or spray mist. 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.

Mixer/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.





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#### STORAGE AND DISPOSAL

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

# **Pesticide Storage:**

Store in cool [59-86° F (15-30° C)], 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. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. 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 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.

# **16. OTHER INFORMATION**

4 = Extreme

NFPA Hazard Ratings HMIS Hazard Ratings

Health: 1 Health: 1 0 = Minimal Flammability: 0 Flammability: 0 1 = Slight Instability: 0 Instability: 0 2 = Moderate 3 = Serious

REASON FOR ISSUE: Address Change

APPROVAL DATE: 01/08/20 SUPERSEDES DATE: 06/10/19

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
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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.



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