

**VECTOBAC® WDG**

MSDS# BIO-0034 Rev. 1  
ISSUED 04/16/03

**1. PRODUCT AND COMPANY IDENTIFICATION****MATERIAL NAME:**

VectoBac® WDG  
Gnatrol® DG  
EPA Registration No. 73049-56

**MANUFACTURER:**

Valent BioSciences Corporation  
870 Technology Way, Suite 100  
Libertyville, Illinois 60048

**EMERGENCY TELEPHONE NUMBERS****Emergency Health or Spill:**

Outside the United States: 651-632-6184  
Within the United States: 877-315-9819

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

**INGREDIENT NAME:** *Bacillus thuringiensis*, subsp. *israelensis* (35-45%)

**CAS/RTECS NUMBERS:** 68038-71-1 / N/A

**OSHA-PEL**

8HR TWA: N/L

STEL: N/L

CEILING: N/L

**ACGIH-TLV**

8HR TWA: N/L

STEL: N/L

CEILING: N/L

**OTHER LIMITS**

8HR TWA: N/A

STEL: N/A

CEILING: N/A

**INGREDIENT NAME:** Inert Ingredients - identity withheld as a Trade Secret

**CAS/RTECS NUMBERS:** N/A / N/A

**OSHA-PEL**

8HR TWA: N/L

STEL: N/L

CEILING: N/L

**ACGIH-TLV**

8HR TWA: N/L

STEL: N/L

CEILING: N/L

**OTHER LIMITS**

8HR TWA: N/A

STEL: N/A

CEILING: N/A

**EEC (European Community):** N/A

**Symbol Designation:** N/A

**Risk Phrases:** N/A

**Safety Phrases:** N/A

**3. HAZARDS INFORMATION**

**EMERGENCY OVERVIEW:** Product is non-toxic by ingestion, skin contact, or inhalation.

**ROUTE(S) OF ENTRY:**

Skin: No

Inhalation: No

Ingestion: No

**SKIN CONTACT:** Non-irritant

**SKIN SENSITIZATION:** Non-sensitizer

**EYE CONTACT:** Non-irritant

**TARGET ORGANS:** N/D

**CARCINOGENICITY RATING:**

NTP: N/L

IARC: N/L

OSHA: N/L

ACGIH: N/L

None

**SIGNS AND SYMPTOMS:** Direct contact with eyes or skin may cause mild irritation.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** N/D

**4. FIRST AID MEASURES**

**EYES:** Remove from source of exposure. Flush with copious amounts of water. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.

**SKIN:** Remove from source of exposure. Flush with copious amounts of water. If irritation persists or signs

of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.

**INGESTION:** Remove from source of exposure. 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.

**5. FIRE FIGHTING PROCEDURES**

**FLASH POINT:** N/A

**FLASH POINT METHOD:** N/A

**LOWER EXPLOSIVE LIMIT(%):** N/A

**UPPER EXPLOSIVE LIMIT(%):** N/A

**AUTOIGNITION TEMPERATURE:** N/A

**FIRE & EXPLOSION HAZARDS:** Non-flammable and no explosive properties.

**EXTINGUISHING MEDIA:** Use appropriate medium for the underlying cause of the fire.

**FIRE FIGHTING INSTRUCTIONS:** Wear protective clothing and self-contained breathing apparatus.

**6. ACCIDENTAL RELEASE MEASURES**

**SPILL OR RELEASE PROCEDURES:** Recover product and place in an appropriate container for disposal. Avoid breathing dust. Ventilate and wash the spill area.

**7. HANDLING AND STORAGE**

**HANDLING:** N/D

**STORAGE:** Store product in closed container in a cool and dry place.

**SPECIAL PRECAUTIONS:** N/D

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**ENGINEERING CONTROLS:** Use local exhaust.

**RESPIRATORY PROTECTION:** Not usually required. If necessary, use a MSHA/NIOSH approved (or equivalent) respirator with a dust/mist filter.

**SKIN PROTECTION:** Impervious gloves, clothing to minimize skin contact.

**EYE PROTECTION:** Not usually required. If necessary, use safety glasses or goggles.

**OTHER PROTECTION:** Wash thoroughly with soap and water after handling.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**APPEARANCE/PHYSICAL STATE:** Granule

**ODOR:** Faint organic/malt odor

**BOILING POINT:** N/A

**MELTING/FREEZING POINT:** N/A

**VAPOR PRESSURE (mm Hg):** N/A

**VAPOR DENSITY (Air=1):** N/D

**EVAPORATION RATE:** N/A

**BULK DENSITY:** 0.4 g/mL

**SPECIFIC GRAVITY:** N/D

**SOLUBILITY:** Suspends readily in water.

**pH:** 4.5-6.5 as an aqueous solution.

**VISCOSITY:** N/A

**10. STABILITY AND REACTIVITY**

**CHEMICAL STABILITY:** Stable. No oxidizing or reducing properties.

**INCOMPATIBILITIES:** Alkalinity inactivates product.

**HAZARDOUS DECOMPOSITION PRODUCTS:** None that are known.

**HAZARDOUS POLYMERIZATION:** No.

**11. TOXICOLOGICAL INFORMATION****Acute Toxicity**

**ORAL LD50:** LD50 (rat) > 5,000 mg/kg

**DERMAL LD50:** LD50 (rabbit) > 5,000 mg/kg

**INHALATION LC50:** No lethality was observed in rats after a 4 hour exposure at the highest obtainable inhalation exposure chamber concentration.

**CORROSIVENESS:** N/D. Not expected to have any corrosive properties.

**DERMAL IRRITATION:** Transient, slight or mild irritation noted in a dermal toxicity study with this product.

**OCULAR IRRITATION:** Transient, redness and conjunctival irritation observed in test animals in a study with this product. No positive ocular effects were observed. Classified as a non-irritant.

**DERMAL SENSITIZATION:** In a study with this product, no skin sensitization was observed.

**SPECIAL TARGET ORGAN EFFECTS:** N/D

**CARCINOGENICITY INFORMATION:** N/D. None of the components are classified as carcinogens.

**12. ECOLOGICAL INFORMATION**

**ECOLOGICAL INFORMATION:** N/D

**13. DISPOSAL CONSIDERATIONS**

**WASTE DISPOSAL METHODS:** Dispose of product in accordance with federal, state and local regulations.

**14. TRANSPORTATION INFORMATION****DOT**

**STATUS:** Not Regulated

**PROPER SHIPPING NAME:** N/D

**HAZARD CLASS:** N/D

**UN NUMBER:** N/D

**PACKING GROUP:** N/D

**REPORTABLE QUANTITY:** N/D

**IATA/ICAO**

**STATUS:** Not Regulated

**PROPER SHIPPING NAME:** N/D

**HAZARD CLASS:** N/D

**UN NUMBER:** N/D

**PACKING GROUP:** N/D

**REPORTABLE QUANTITY:** N/D

**IMO**

**STATUS:** Not Regulated

**PROPER SHIPPING NAME:** N/D

**HAZARD CLASS:** N/D

**UN NUMBER:** N/D

**PACKING GROUP:** N/D

**REPORTABLE QUANTITY:** N/D

**FLASH POINT:** N/D

**15. REGULATORY INFORMATION**

**TSCA STATUS:** Exempt

**CERCLA STATUS:** N/D

**SARA STATUS:** N/D

**RCRA STATUS:** N/D

**PROP 65 (CA):** N/D

**16. OTHER INFORMATION**

**REASON FOR ISSUE:** Updated Hazard Information (Section 3) and Toxicological Information (Section 11).

**APPROVAL DATE:** 04/16/03

**SUPERSEDES DATE:** 06/12/01

**MSDS NUMBER:** BIO-0034 Rev. 1

**LEGEND:**

N/A = Not Applicable

N/D = Not Determined

N/L = Not Listed

L = Listed

C = Ceiling

S = Short-term

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