

MATERIAL SAFETY DATA SHEET

Vectobac® DT  
MSDS# BIO-0300 Rev. 3

PAGE 1  
ISSUED 03/14/12

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MATERIAL NAME: VectoBac® DT  
EPA Reg.No.: 73049-447  
Code Number: N/D  
List Number: N/D

SYNONYMS: VBC-60046

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, var. israelensis  
CONCENTRATION: 37.4 %  
CAS NUMBER: 68038-71-1  
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 8HR TWA: N/A  
LIMITS STEL: N/A  
CEILING: N/A

INGREDIENT NAME: Other/Inert Ingredients - identity is Trade Secret  
CONCENTRATION: 62.6 %  
CAS NUMBER: 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 8HR TWA: N/A  
LIMITS STEL: N/A  
CEILING: N/A

MATERIAL SAFETY DATA SHEET

Vectobac® DT  
MSDS# BIO-0300 Rev. 3

PAGE 2  
ISSUED 03/14/12

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3. HAZARDS INFORMATION  
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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: NTP: N/L   IARC: N/L   OSHA: N/L   ACGIH: N/L  
None

SIGNS AND SYMPTOMS: Based on data from a similar granular formulation, direct contact with eyes or skin may cause mild transient irritation.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: N/D.

4. FIRST AID MEASURES  
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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.

MATERIAL SAFETY DATA SHEET

Vectobac® DT  
MSDS# BIO-0300 Rev. 3

PAGE 3  
ISSUED 03/14/12

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5. FIRE FIGHTING PROCEDURES  
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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  
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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  
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HANDLING: N/D.

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

SPECIAL PRECAUTIONS: N/A.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION  
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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.

MATERIAL SAFETY DATA SHEET

Vectobac® DT  
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PAGE 4  
ISSUED 03/14/12

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9. PHYSICAL AND CHEMICAL PROPERTIES  
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APPEARANCE/PHYSICAL STATE: Beige/tan colored, small cylindrical tablet  
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: N/D  
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  
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CHEMICAL STABILITY: Stable. No oxidizing or reducing properties.  
INCOMPATIBILITIES: Alkalinity inactivates product.  
HAZARDOUS DECOMPOSITION PRODUCTS: None that are known.  
HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION  
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Acute Toxicity

ORAL: N/D. LD50 (rat) > 5,000 mg/kg for Bti technical powder.  
DERMAL: N/D. LD50 (rabbit) > 5,000 mg/kg for Bti technical powder.  
INHALATION: N/D. LC50 (rat) > 2.84 mg/l (4 hr) for Bti technical powder.  
(Highest obtainable inhalation chamber concentration)  
CORROSIVENESS: N/D. Not expected to have any corrosive properties.  
DERMAL IRRITATION: N/D. Transient, slight or mild irritation noted in a  
dermal toxicity study with a granular formulation similar to this  
product.  
OCULAR IRRITATION: N/D. Transient, redness and conjunctival irritation  
observed in test animals in a study with a granular formulation similar  
to this product. No positive ocular effects were observed.

MATERIAL SAFETY DATA SHEET

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PAGE 5  
ISSUED 03/14/12

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11. TOXICOLOGICAL INFORMATION, continued  
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DERMAL SENSITIZATION: N/D. In a study with a granular formulation similar to 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.

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12. ECOLOGICAL INFORMATION  
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ECOLOGICAL INFORMATION: N/D

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

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14. TRANSPORTATION INFORMATION  
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DOT STATUS: Not Regulated  
PROPER SHIPPING NAME: N/A  
HAZARD CLASS: N/A  
UN NUMBER: N/A  
PACKING GROUP: N/A  
REPORTABLE QUANTITY: N/A

IATA/ICAO STATUS: Not Regulated  
PROPER SHIPPING NAME: N/A  
HAZARD CLASS: N/A  
UN NUMBER: N/A  
PACKING GROUP: N/A  
REPORTABLE QUANTITY: N/A

IMO STATUS: Not Regulated  
PROPER SHIPPING NAME: N/A  
HAZARD CLASS: N/A  
UN NUMBER: N/A  
PACKING GROUP: N/A  
REPORTABLE QUANTITY: N/A  
FLASH POINT: N/A

