MATERIAL	SAFETY	DATA	SHEET
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	MAIERIAL SAFEII DAIA SEEI	PAGE 1
VectoBac® G MSDS# BIO-0057 Re	v 1	ISSUED 06/19/03
	UCT AND COMPANY IDENTIFICATION	
MATERIAL NAME: Ve	ctoBac® G	
	A Registration No. 73049-10	
MANUFACTURER: Va	lent BioSciences Corporation	
	0 Technology Way, Suite 100	
Li	bertyville, Illinois 60048	
EMERGENCY TELEPHO	NE NUMBEDS	
Emergency Health		
	United States: 651-632-6184	
	nited States: 877-315-9819	
	NFORMATION ON INGREDIENTS	
ТИСРЕПТЕМТ МАМЕ	: Bacillus thuringiensis, subsp. :	israelensis
CONCENTRATION		LSIGETEHSIS
	: 68038-71-1 / N/A	
OSHA-PEL 8HR TWA		
STEL	: N/L	
CEILING		
ACGIH-TLV 8HR TWA		
	: N/L	
CEILING OTHER 8HR TWA		
	N/A	
CEILING		
INGREDIENT NAME	: Inert Ingredients - identity wit	chheld as a Trade
	Secret	
CONCENTRATION		
CAS/RTECS NUMBERS		
OSHA-PEL 8HR TWA		
CEILING	: N/L • N/L	
ACGIH-TLV 8HR TWA		
	: N/L	
CEILING		
OTHER 8HR TWA	: N/A	
	: N/A	
CEILING	: N/A	

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2. COMPOSITION/INFORMATION ON INGREDIENTS, continued

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. Direct contact with eyes or skin may cause mild irritation.

ROUTE(S) OF ENTRY: Skin: No Inhalation: No Ingestion: No

SKIN CONTACT: Non-irritant

SKIN SENSITIZATION: N/D

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.

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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/D LOWER EXPLOSIVE LIMIT(%): N/D UPPER EXPLOSIVE LIMIT(%): N/D AUTOIGNITION TEMPERATURE: N/D

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

- EXTINGUISHING MEDIA: Use appropriate medium for underlying cause of fire.
- FIRE FIGHTING INSTRUCTIONS: Wear protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

SPILL OR RELEASE PROCEDURES: Recover product. Place into appropriate container for disposal. Avoid dust. Ventilate and wash spill area.

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7. HANDLING AND STORAGE

HANDLING: N/D.

STORAGE: Store in a cool, dry place.

SPECIAL PRECAUTIONS: N/A

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Use local exhaust.

RESPIRATORY PROTECTION: Not usually required. However, mixers/loaders and applicators not in enclosed cabs or aircraft must wear a dust/mist respirator meeting NIOSH standards of at least N-95, R-95 or P-95.

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: Granular solid. ODOR: Mild BOILING POINT: N/A MELTING/FREEZING POINT: N/A VAPOR PRESSURE (mm Hg): N/A VAPOR DENSITY (Air=1): N/A EVAPORATION RATE: N/D BULK DENSITY: 27 ± 4 lb/cu.ft. SPECIFIC GRAVITY: N/D SOLUBILITY: N/A pH: 5.4 ± 1.0 (10% slurry) VISCOSITY: N/A

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10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable

INCOMPATIBILITIES: Alkalinity inactivates product.

HAZARDOUS DECOMPOSITION PRODUCTS: N/D.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

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

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

INHALATION LC50: N/D. No lethality was observed in rats after a 4 hour exposure at the highest obtainable inhalation exposure chamber concentration (2.84 mg/l) to VectoBac® Technical Powder.

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 VectoBac® Technical Powder.

OCULAR IRRITATION: N/D. VectoBac® Technical Powder was mildly irritating in an eye irritation test in rabbits.

DERMAL SENSITIZATION: N/D

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 _____

ECOLOGICAL INFORMATION: N/D

13. DISPOSAL CONSIDERATIONS _____

Do not contaminate potable water, food or feed by storage or disposal. Dispose of product in accordance with federal, state, and local regulations.

WASTE DISPOSAL METHODS:

Pesticide Disposal: Wastes resulting from use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal: Completely empty bag into application equipment. Then 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.

14. TRANSPORTATION INFORMATION _____

DOT STATUS: PROPER SHIPPING NAME: HAZARD CLASS: UN NUMBER: PACKING GROUP: REPORTABLE QUANTITY:	N/A N/A N/A
IATA/ICA0 STATUS: PROPER SHIPPING NAME: HAZARD CLASS: UN NUMBER: PACKING GROUP: REPORTABLE QUANTITY:	N/A N/A N/A
IMO STATUS: PROPER SHIPPING NAME: HAZARD CLASS: UN NUMBER: PACKING GROUP: REPORTABLE QUANTITY: FLASH POINT:	N/A N/A N/A N/A

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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	
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