M	ATERIAL SAFETY DATA SHEET	PAGE 1
VectoBac® GS MSDS# BIO-0636 Rev	. 2	ISSUED 10/09/14
	CT AND COMPANY IDENTIFICATION	
MATERIAL NAME: Vec EPA	toBac® GS Registration No. 73049-10	
870	ent BioSciences Corporation Technology Way ertyville, Illinois 60048	
	FORMATION ON INGREDIENTS	
INGREDIENT NAME: CONCENTRATION: CAS/RTECS NUMBERS: OSHA-PEL 8HR TWA: STEL: CEILING: ACGIH-TLV 8HR TWA: STEL: CEILING: OTHER 8HR TWA: LIMITS STEL: CEILING:	68038-71-1 / N/A N/L N/L N/L N/L N/L N/L N/A	israelensis,
INGREDIENT NAME:	Inert Ingredients - identity wi Secret	ithheld as a Trade
CONCENTRATION: CAS/RTECS NUMBERS: OSHA-PEL 8HR TWA: STEL: CEILING:	N/A / N/A N/L N/L	
ACGIH-TLV 8HR TWA: STEL:	N/L N/L	
CEILING: OTHER 8HR TWA: LIMITS STEL: CEILING:	N/A N/A	

MATERIAL	SAFETY	DATA	SHEET
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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: Not Regulated PROPER SHIPPING NAME: N/A HAZARD CLASS: N/A UN NUMBER: N/A PACKING GROUP: N/A REPORTABLE QUANTITY: N/A IATA/ICA0 STATUS: Not Regulated PROPER SHIPPING NAME: N/A HAZARD CLASS: N/A UN NUMBER: N/A PACKING GROUP: N/A REPORTABLE QUANTITY: N/A STATUS: Not Regulated IMO 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

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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				
REASON FOR ISSUE: Strain added. APPROVAL DATE: 10/09/14 SUPERSEDES DATE: 01/02/12				
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 BioScie (TM) = Registered Trademark of Valent BioScie				

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