	MZ	ATERIAL SAFETY DATA SHEET	PAGE	1
VectoBac® G MSDS# BIO-06		. 1	ISSUED	01/02/12
		CT AND COMPANY IDENTIFICATION		
MATERIAL NAM		<b>COBac® GS</b> Registration No. 73049-10		
MANUFACTUREF	870	ent BioSciences Corporation Technology Way, Suite 100 ertyville, Illinois 60048		
	ealth or e the Ur			
2. COMPOSITION/INFORMATION ON INGREDIENTS				
CONCENTE	RATION: JMBERS:	68038-71-1 / N/A N/L	israelensis	
ACGIH-TLV 8H	EILING: HR TWA: STEL: EILING:	N/L N/L		
OTHER 8H LIMITS	HR TWA: STEL: EILING:	N/A N/A		
INGREDIENT NAME:		Inert Ingredients - identity w Secret	ithheld as a T	rade
	JMBERS: HR TWA: STEL: EILING:	N/A / N/A N/L N/L N/L		
CE OTHER 8H LIMITS	STEL: EILING: HR TWA: STEL: EILING:	N/L N/L N/A N/A		

PAGE 2

VectoBac® GS MSDS# BIO-0636 Rev. 1 ISSUED 01/02/12

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.

VectoBac® GS MSDS# BIO-0636 Rev. 1 ISSUED 01/02/12

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.

\_\_\_\_\_

VectoBac® GS MSDS# BIO-0636 Rev. 1

ISSUED 01/02/12

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

MSDS# BIO-0636 Rev. 1 ISSUED 01/02/12

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

VectoBac® GS

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.

VectoBac® GS MSDS# BIO-0636 Rev. 1

ISSUED 01/02/12

-----

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

VectoBac® GS MSDS# BIO-0636 Rev. 1	ISSUED 01/02/12
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: MSDS Reviewed. APPROVAL DATE: 01/02/12 SUPERSEDES DATE: 06/24/11	
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	

The information and recommendations contained herein are based upon tests believed to be reliable. However, Valent BioSciences does not guarantee their accuracy or completeness nor shall any of this information constitute a warranty, whether expressed or implied, as to the safety of the goods, the merchantability of the goods, or the fitness of the goods for a particular purpose. Adjustment to conform with actual conditions of usage may be required. Valent BioSciences assumes no responsibility for results obtained or for incidental or consequential damages arising from the use of these data. No freedom from infringement of any patent, copyright or trademark is to be inferred.

VALENT BIOSCIENCES.

Maghapage dd

870 Technology Way, Suite 100 Libertyville, IL 60048 - 800-323-9597