

**Gnatrol®**

ISSUED 04/09/01

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**MATERIAL NAME:** Gnatrol®  
 EPA Registration No. 73049-11  
 Drug Code: 15574  
 List Number: 11008  
**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  
**CONCENTRATION:** .6000%  
**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

**INGREDIENT NAME:** Inert Ingredients - identity withheld as a Trade Secret  
**CONCENTRATION:** 99.4000%  
**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: For a minor component: 50 ppm total vapor and aerosol, 10 mg/m<sup>3</sup> aerosol (AIHA WEEL)  
 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:** This material is a skin sensitizer.  
**ROUTE(S) OF ENTRY:**  
 Skin: No  
 Inhalation: N/D  
 Ingestion: No  
**INGESTION RATING:** None  
**SKIN ABSORPTION RATING:** None  
**INHALATION RATING:** Possibly toxic  
**CORROSIVENESS RATING:** None  
**SKIN CONTACT RATING:** None  
**SKIN SENSITIZATION RATING:** Sensitizer  
**EYE CONTACT RATING:** None  
**TARGET ORGANS:** Skin, possibly hematopoietic system  
**CARCINOGENICITY RATING:**  
 NTP: N/L  
 IARC: N/L  
 OSHA: N/L  
 ACGIH: N/L  
 None  
**SIGNS AND SYMPTOMS:** N/D. Data suggest that direct contact with the skin may cause mild irritation and repeated contact could result in dermatitis.  
**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** N/D. Data suggest pre-existing skin lesions and hypersensitivity to B.t. israelensis formulations.

**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/D  
**FLASH POINT METHOD:** N/D  
**LOWER EXPLOSIVE LIMIT (%):** N/D  
**UPPER EXPLOSIVE LIMIT (%):** N/D  
**AUTOIGNITION TEMPERATURE:** N/D  
**FIRE & EXPLOSION HAZARDS:** N/D.  
**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 and place into an appropriate container for disposal. Avoid contact with skin. Wear appropriate personal protective equipment. Ventilate and wash spill area.

**7. HANDLING AND STORAGE**

**HANDLING:** N/D.  
**STORAGE:** Store in cool, 59-86 F or 15-30 C, dry place.  
**SPECIAL PRECAUTIONS:** Wash hands and face after handling this compound. Keep gloves on until all potentially contaminated personal protective equipment is removed.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**ENGINEERING CONTROLS:** Use local exhaust.  
**RESPIRATORY PROTECTION:** Air purifying respirator with high efficiency particulate filter (P100).  
**SKIN PROTECTION:** Wear 2 pairs; latex inner, thicker glove outside.  
**EYE PROTECTION:** Goggles or full-face respirator.  
**OTHER PROTECTION:** Wear saranex tyvek coverings if contact may occur.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**APPEARANCE/PHYSICAL STATE:** Brown aqueous suspension.  
**ODOR:** N/D  
**BOILING POINT:** N/D  
**MELTING/FREEZING POINT:** N/A  
**VAPOR PRESSURE (mm Hg):** N/D  
**VAPOR DENSITY (Air=1):** N/D  
**EVAPORATION RATE:** N/D  
**BULK DENSITY:** 1.03-1.06 g/mL  
**SPECIFIC GRAVITY:** N/D  
**SOLUBILITY:** Disperses well in water  
**pH:** Approximately 5  
**VISCOSITY:** 200-400 cps at 25 C

**10. STABILITY AND REACTIVITY**

**CHEMICAL STABILITY:** N/D  
**INCOMPATIBILITIES:** N/D.  
**HAZARDOUS DECOMPOSITION PRODUCTS:** N/D.  
**HAZARDOUS POLYMERIZATION:** N/D

**11. TOXICOLOGICAL INFORMATION**

**ORAL TOXICITY:** LD50 > 5,000 mg/kg in rats.  
**DERMAL TOXICITY:** LD50 > 2,000 mg/kg in rabbits.  
**INHALATION TOXICITY:** LCLo = 3.9 mg/l/4 hours (one of ten animals died when exposed to this maximum attainable concentration).  
**CORROSIVENESS:** N/D  
**DERMAL IRRITATION:** Slightly irritating with some sloughing found in a skin irritation test (4-hour application) in rabbits. Redness, swelling and sloughing of

the skin were also noted in a dermal toxicity study in rabbits.

**OCULAR IRRITATION:** Non-irritating in eye irritation tests in rabbits.

**DERMAL SENSITIZATION:** Eight of ten animals positive in a dermal sensitization study in guinea pigs.

**SPECIAL TARGET ORGAN EFFECTS:** N/D. A minor ingredient produced Heinz body formation or erythrocyte destruction in animals at repeated dosages of 500 mg/kg or more.

**CARCINOGENICITY INFORMATION:** N/D

**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****LEGEND:**

N/A = Not Applicable  
 N/D = Not Determined  
 N/L = Not Listed

L = Listed

C = Ceiling

S = Short-term

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**APPROVED BY:** RHW

April 2001

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