

DiPel® WP

MSDS# BIO-0001 Rev. 4

ISSUED 09/27/07

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MATERIAL NAME: DiPel WP Biological Insecticide

EPA Reg.No.: 73049-5

Code Number: 15564, 60988

List Number: 05188

PCP Number : 11252

SYNONYMS: Stanguard 80 DiPel 1X WP Biobit WP DiPel FMU

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. kurstaki strain ABTS-351, fermentation solids and solubles. CAS No. 68038-71-1

CONCENTRATION: 23.70 %

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: Inert/Other Ingredients - identity a Trade Secret

CONCENTRATION: 76.30 %

CAS NUMBER: N/A

OSHA-PEL 8HR TWA: 15 mg/m3 total dust, 5 mg/m3 respirable fraction

STEL: N/L

CEILING: N/L

ACGIH-TLV 8HR TWA: 2 mg/m3 respirable fraction for a major component.

STEL: N/L

CEILING: N/L

OTHER 8HR TWA: N/A

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2. COMPOSITION/INFORMATION ON INGREDIENTS, continued  
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LIMITS            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  
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EMERGENCY OVERVIEW: This material is an eye irritant.

ROUTE(S) OF ENTRY:            Skin: No  
                                  Inhalation: N/D  
                                  Ingestion: No

INGESTION RATING: None

SKIN ABSORPTION RATING: Non penetrating

INHALATION RATING: N/D

CORROSIVENESS RATING: N/D

SKIN CONTACT RATING: N/D

SKIN SENSITIZATION RATING: Non-sensitizer

EYE CONTACT RATING: Irritant

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### 3. HAZARDS INFORMATION, continued

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TARGET ORGANS: Eyes, lungs

CARCINOGENICITY RATING: NTP: N/L IARC: N/L OSHA: N/L  
ACGIH: N/L  
None

SIGNS AND SYMPTOMS: N/D. Data suggest eye irritation may result if contact occurs. Prolonged inhalation of dust could result in breathing difficulties.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: N/D. Pre-existing eye lesions or lung disease.

### 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.

### 5. FIRE FIGHTING PROCEDURES

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FLASH POINT: N/A  
FLASH POINT METHOD: N/D  
LOWER EXPLOSIVE LIMIT(%): N/D  
UPPER EXPLOSIVE LIMIT(%): N/D

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## 5. FIRE FIGHTING PROCEDURES, continued

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AUTOIGNITION TEMPERATURE: N/D

FIRE &amp; EXPLOSION HAZARDS: N/D.

EXTINGUISHING MEDIA: Use appropriate media for underlying cause of 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. Place into appropriate container for disposal. Avoid dust. Ventilate and wash spill area.

## 7. HANDLING AND STORAGE

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HANDLING: N/DSTORAGE: Avoid excessive storage temperatures and direct sunlight.  
Store in a dry area in a tightly closed container.

SPECIAL PRECAUTIONS: Wash hands and face after handling this compound.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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ENGINEERING CONTROLS: Use local exhaust.

RESPIRATORY PROTECTION: Air-purifying respirator with high efficiency particulate filter (P100).

SKIN PROTECTION: Impervious

EYE PROTECTION: Full-face respirator

OTHER PROTECTION: Wear tyvek coveralls during dusty operations.

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9. PHYSICAL AND CHEMICAL PROPERTIES  
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APPEARANCE/PHYSICAL STATE: Fine tan powder  
ODOR: Characteristic odor  
BOILING POINT: N/A  
MELTING/FREEZING POINT: N/D  
VAPOR PRESSURE (mm Hg): N/A  
VAPOR DENSITY (Air=1): N/A  
EVAPORATION RATE: N/D  
BULK DENSITY: N/A  
SPECIFIC GRAVITY: N/D  
SOLUBILITY: Suspends and partially soluble in water  
pH: 4-6.5 (10% solution in water)  
VISCOSITY: N/A

10. STABILITY AND REACTIVITY  
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CHEMICAL STABILITY: N/D

INCOMPATIBILITIES: Alkalinity inactivates product.

HAZARDOUS DECOMPOSITION PRODUCTS: N/D.

HAZARDOUS POLYMERIZATION: N/D.

11. TOXICOLOGICAL INFORMATION  
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ORAL TOXICITY: N/D. LD50 &gt; 4,000 mg/kg in rats for Dipel(R) Technical Powder. LD50 &gt; 10,000 mg/kg in mice. LD50 &gt; 400 mg/kg in dogs.

DERMAL TOXICITY: N/D

INHALATION TOXICITY: Not lethal in an inhalation study with rats at an aerosol concentration of 5.26 mg/L/4 hours. EPA Category IV

CORROSIVENESS: N/D

DERMAL IRRITATION: N/D. A 20% aqueous suspension of Dipel(R) Technical Powder was mildly irritating in a skin irritation test (24-hour application) in rabbits. Effects were reversible within 3 days.

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11. TOXICOLOGICAL INFORMATION, continued  
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OCULAR IRRITATION: Produced redness, swelling and discharge in an eye irritation test in rabbits.

DERMAL SENSITIZATION: N/D. There was no evidence of sensitization for Dipel(R) Technical Powder in guinea pigs induced by subcutaneous and intramuscular injection and challenged by inhalation.

SPECIAL TARGET ORGAN EFFECTS: N/D. In subchronic oral toxicity studies in rats and sheep and a 2-year chronic oral toxicity study in rats with Dipel(R) Technical Powder, no significant treatment-related effects were observed at dosages of 500 mg/kg/day or more. In a 4-week inhalation study in guinea pigs, animals receiving 10.35 mg/l nominal (0.23 mg/l gravimetric) exhibited some evidence of inflammation in the lungs. A major component of this product has been reported to produce lung fibrosis in experimental animals and exposed workers.

CARCINOGENICITY INFORMATION: N/D

12. ECOLOGICAL INFORMATION  
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ECOLOGICAL INFORMATION: N/D

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

14. TRANSPORTATION INFORMATION  
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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

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14. TRANSPORTATION INFORMATION, continued  
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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/A

15. REGULATORY INFORMATION  
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TSCA STATUS: Exempt

CERCLA STATUS: N/D

SARA STATUS: N/D

RCRA STATUS: N/D

PROP 65 (CA): N/D

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16. OTHER INFORMATION  
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REASON FOR ISSUE: Addition of PCP Number  
APPROVAL DATE: 09/27/07  
SUPERSEDES DATE: 08/13/07

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 BioSciences  
(TM) = Registered Trademark of Valent BioSciences

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