

# DIPEL® DF BIOLOGICAL INSECTICIDE

MSDS# BIO-0022  
Rev. 1  
ISSUED 11/05/03

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**MATERIAL NAME:** DiPel DF Biological Insecticide  
EPA Reg.No.: 73049-39  
Code Number: 80250  
List Number: 12046

### SYNONYMS:

DiPel 2XDF DiPel PRO DF  
DiPel 6.4 WG DiPel WG

### 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

**CONCENTRATION:** 54.00%

**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 LIMITS

8HR TWA: N/A

STEL: N/A

CEILING: N/A

**INGREDIENT NAME:** Inert/Other Ingredients - identify a Trade Secret

**CONCENTRATION:** 46.00%

**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

STEL: N/L

CEILING: N/L

### OTHER LIMITS

8HR TWA: N/A

STEL: N/A

CEILING: N/A

## 3. HAZARDS INFORMATION

**EMERGENCY OVERVIEW:** Product is non-toxic by ingestion, skin contact, or inhalation.

### ROUTE(S) OF ENTRY:

Skin: No

Inhalation: No

Ingestion: No

**SKIN CONTACT:** Non-irritant

**SKIN SENSITIZATION:** Non-sensitizer

**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 may cause mild irritation. Inhalation of dust may result in respiratory tract irritation.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Impaired respiratory function.

## 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.

**EXTINGUISHING MEDIA:** Use appropriate medium for the underlying cause of the fire.

**FIRE FIGHTING INSTRUCTIONS:** Wear protective clothing and self-contained breathing apparatus.

## 6. ACCIDENTAL RELEASE MEASURES

**SPILL OR RELEASE PROCEDURES:** Recover product and place in an appropriate container for disposal. Avoid breathing dust. Ventilate and wash the spill area.

## 7. HANDLING AND STORAGE

**HANDLING:** N/D

**STORAGE:** Store product in closed container in a cool and dry place.

**SPECIAL PRECAUTIONS:** N/D

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Use local exhaust.

**RESPIRATORY PROTECTION:** Not usually required. If necessary, use a MSHA/NIOSH approved (or equivalent) respirator with a dust/mist filter.

**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:** Yellow to mustard brown fine granules

**ODOR:** Faint organic/malt odor

**BOILING POINT:** N/A

**MELTING/FREEZING POINT:** N/A

**VAPOR PRESSURE (mm Hg):** N/D

**VAPOR DENSITY (Air=1):** N/D

**EVAPORATION RATE:** N/A

**BULK DENSITY:** 0.473 g/mL

**SPECIFIC GRAVITY:** N/D

**SOLUBILITY:** Suspends readily in water.

**pH:** 4.1 (10% slurry @ 24°C)

**VISCOSITY:** N/A

## 10. STABILITY AND REACTIVITY

**CHEMICAL STABILITY:** Stable. No oxidizing or reducing properties.

**INCOMPATIBILITIES:** Alkalinity inactivates product.

**HAZARDOUS DECOMPOSITION PRODUCTS:** None that are known.

**HAZARDOUS POLYMERIZATION:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

**ORAL LD50:** > 5,050 mg/kg (rat) EPA Toxicity Category IV

**DERMAL LD50:** > 2,020 mg/kg (rabbit) EPA Toxicity Category III

**INHALATION LC50:** Due to the non-dusty characteristics of the product, the test facility was unable to generate a sufficiently high enough concentration of respirable particles. Animal test not warranted.

**CORROSIVENESS:** N/D. Not expected to have any corrosive properties.

**DERMAL IRRITATION:** Transient, slight or mild irritation noted in a dermal irritation study with this product. EPA Toxicity Category IV.

**OCULAR IRRITATION:** Transient, mild to moderate irritation was observed in test animals in a study with this product. Rinsing the eyes with water dramatically reduced irritation scores. Classified as a non-irritant.

**DERMAL SENSITIZATION:** In a study with this product, no skin sensitization was observed.

**SPECIAL TARGET ORGAN EFFECTS:** N/D

**CARCINOGENICITY INFORMATION:** N/D. None of the components are classified as carcinogens.

## 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/A

HAZARD CLASS: N/A

UN NUMBER: N/A

PACKING GROUP: N/A

REPORTABLE QUANTITY: N/A

### IATA/ICAO

STATUS: Not Regulated

PROPER SHIPPING NAME: N/A

HAZARD CLASS: N/A

UN NUMBER: N/A

PACKING GROUP: N/A

REPORTABLE QUANTITY: N/A

### IMO

STATUS: Not Regulated

PROPER SHIPPING NAME: N/A

HAZARD CLASS: N/A

UN NUMBER: N/A

PACKING GROUP: N/A

REPORTABLE QUANTITY: N/A

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

**REASON FOR ISSUE:** Updated Hazard Information (Section 3) and Toxicological Information (Section 11). Added synonyms - DiPel PRO DF and DiPel WG

**APPROVAL DATE:** 11/05/03

**SUPERSEDES DATE:** 06/11/01

### LEGEND:

N/A = Not Applicable

N/D = Not Determined

N/L = Not Listed

L = Listed

C = Ceiling

S = Short-term

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