

DiPel® ES

MSDS# BIO-0032 Rev. 2

ISSUED 09/17/04

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MATERIAL NAME: DiPel ES

EPA Reg. No.: 73049-17

Code Number : 87377

List Number : 05263, 05555

SYNONYMS:	DiPel 8L	DiPel L Plus	DiPel 3.5SL
	DiPel SL	DiPel ES.CPI	

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, var. kurstaki

CONCENTRATION: 23.7 %

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: 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

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## 3. HAZARDS INFORMATION

EMERGENCY OVERVIEW: Product is non-toxic by ingestion or skin contact. Inhalation of the carrier oil used in this product could result in pneumonia.

ROUTE(S) OF ENTRY: Skin: No  
Inhalation: Possible, but unlikely  
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: N/D. Excessive exposure to spray mist may cause irritation to the eyes, nose, and throat. Aspiration into the lungs could result in lipoid pneumonia.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: N/D. Pre-existing respiratory disease or dysfunction.

## 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. Seek medical attention. Do not induce vomiting. 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.

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## 5. FIRE FIGHTING PROCEDURES

FLASH POINT: 360° F (182° C)

FLASH POINT METHOD: Closed Cup

LOWER EXPLOSIVE LIMIT(%): N/D

UPPER EXPLOSIVE LIMIT(%): N/D

AUTOIGNITION TEMPERATURE: &gt;400° F (&gt;204° C)

FIRE &amp; EXPLOSION HAZARDS: Non-flammable and no explosive properties.

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. Ventilate and wash the spill area.

## 7. HANDLING AND STORAGE

HANDLING: The usual precautions for handling chemicals should be observed.

STORAGE: Store product in closed container in a cool and dry place. Avoid excessive storage temperatures and direct sunlight.

SPECIAL PRECAUTIONS: Wash hands thoroughly after handling this product.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Use local exhaust.

RESPIRATORY PROTECTION: If necessary, use a dust/mist respirator meeting NIOSH standards of at least N-95, R-95 or P-95.

SKIN PROTECTION: Wear Chemical-resistant gloves, such as barrier laminate, or nitrile rubber, or neoprene rubber or viton 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.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/PHYSICAL STATE: Tan to brown suspension

ODOR: Characteristic organic/malt odor

BOILING POINT: &gt; 400° F (&gt;204° C)

MELTING/FREEZING POINT: N/A

VAPOR PRESSURE (mm Hg): N/D

VAPOR DENSITY (Air=1): N/D

EVAPORATION RATE: N/A

BULK DENSITY: 960 g/l

SPECIFIC GRAVITY: N/D

SOLUBILITY: Suspends readily in water.

pH: 4 - 6.5 (10% slurry)

VISCOSITY: 300-1000 cps

## 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: &gt; 5,050 mg/kg (rat). EPA Toxicity Category IV.

DERMAL LD50: &gt; 5,050 mg/kg (rabbit). EPA Toxicity Category IV.

INHALATION LC50: &gt; 2.95 mg/l\* (8.45 mg/l nominal concentration) 4-hour nose-only exposure. \* Highest attainable concentration.

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

DERMAL IRRITATION: Transient, slight irritation noted in a dermal irritation study. EPA Toxicity Category IV.

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## 11. TOXICOLOGICAL INFORMATION, continued

OCULAR IRRITATION: Transient, mild irritation one hour after exposure. All effects cleared by 24 hours. EPA Toxicity Category IV.

DERMAL SENSITIZATION: N/D. Although the probability is low, the potential to cause skin sensitization exists.

SPECIAL TARGET ORGAN EFFECTS: N/D. Excessive inhalation of the carrier oil may cause lipoid pneumonia.

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

## 12. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: N/D

## 13. DISPOSAL CONSIDERATIONS

**Product Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Do not contaminate water when disposing of equipment washwaters.

**Container Disposal:** Triple rinse (or equivalent). Then puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

## 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

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## 14. TRANSPORTATION INFORMATION, continued

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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: > 360° F

## 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

## 16. OTHER INFORMATION

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REASON FOR ISSUE: Updated Composition (Section 2), Hazards (Section 3), Exposure Controls (Section 8), Phys/Chem (Section 9), and Toxicology (Section 11). Added synonym: DiPel 3.5SL  
APPROVAL DATE: 09/17/04  
SUPERSEDES DATE: 05/12/04

LEGEND: N/A = Not Applicable  
N/D = Not Determined  
N/L = Not Listed  
L = Listed  
C = Ceiling  
S = Short-term  
® = Registered Trademark of Valent BioSciences  
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Corporation

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