

ABBOTT LABORATORIES

**DiPel<sup>®</sup> ES**

Biological Insecticide

## Material Safety Data Sheet

Abbott Laboratories  
Chemical & Agricultural Products Division  
North Chicago, IL 60064  
Emergency Telephone: 1-800-323-9597  
Chemtec: 1-800-424-9300

**Issue Date:** 11/02/95  
**List/Code:** 5555/15572  
**DOT Classification:** Not Regulated  
**EPA Registration No.:** 275-65  
**Emergency Overview:** Inhalation of the carrier for this product could result in lipoid pneumonia.  
**NFPA:** Health 1 ; Fire 1 ; Reactivity 0

### COMPOSITION / INGREDIENTS

<b>Ingredient Name:</b>	Bacillus thuringiensis var. kurstaki	Inert Ingredients*
<b>% Concentration:</b>	3.5%	96.5%
<b>CAS/RTECS Numbers:</b>	N/A / N/A	N/A / N/A
<b>OSHA-PEL 8HR TWA:</b>	N/L	5 mg/m <sup>3</sup> for a major component
<b>STEL:</b>	N/L	N/L
<b>Ceiling:</b>	N/L	N/L
<b>ACGIH-TLV 8HR TWA:</b>	N/L	5 mg/m <sup>3</sup> for a major component
<b>STEL:</b>	N/L	N/L
<b>Ceiling:</b>	N/L	N/L
<b>OTHER 8HR TWA:</b>	N/A	N/A
<b>LIMITS STEL:</b>	N/A	N/A
<b>Ceiling:</b>	N/A	N/A

\*Hazardous per OSHA criteria.

### HEALTH CONSIDERATIONS

**Route(s) of Entry:** Skin: No    Inhalation: No    Ingestion: No  
**Carcinogenicity Rating:** NTP: N/L    IARC: N/L    OSHA: N/L    ACGIH: N/L None  
**Signs and Symptoms:** N/D. Excessive exposure of mist may cause irritation to the eyes, nose and throat. Aspiration into the lungs could result in pneumonia.

**Medical Conditions Aggravated by Exposure:** N/D. Pre-existing lung disease or dysfunction.  
**Oral Toxicity:** N/D. LD50 > 8.45 ml/kg (about 8100 mg/kg) in rats for a similar material.  
**Dermal Toxicity:** N/D. LD50 > 7.5 ml/kg (about 7200 mg/kg) in rabbits for a similar material. No systemic toxicity was observed.  
**Inhalation Toxicity:** N/D. LD50 = 5.2 ml/kg (about 5000 mg/kg) in rats for a similar material when instilled into the lungs.  
**Corrosiveness:** N/D.  
**Dermal Irritation:** N/D. A similar material was mildly to moderately irritating in a skin irritation test in rabbits.  
**Ocular Irritation:** N/D. A similar material was slightly irritating in an eye irritation test in rabbits: reversible within 7 days.  
**Dermal Sensitization:** N/D. DiPel Technical Powder was not considered a sensitizer in a sensitization test in guinea pigs.  
**Target Organs:** Lungs.

## HEALTH CONSIDERATIONS continued

<b>Special Target Organ Effects:</b>	N/D. In subchronic oral toxicity studies in rats and sheep and a 2-year chronic oral toxicity study in rats with DiPel Technical Powder, no significant treatment-related effects were observed at dosages of 5000 mg/kg or more. In a 4-week inhalation study in guinea pigs, animals receiving 10.35 mg/ltr nominal (0.23 mg/ltr gravimetric) DiPel Technical Powder exhibited some evidence of inflammation in the lungs. A minor component has been reported to produce lung fibrosis in experimental animals and exposed workers. Excessive inhalation of the carrier may cause lipid pneumonia.
<b>Carcinogenicity Information:</b>	N/D.

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## EMERGENCY AND FIRST AID PROCEDURE

<b>Eyes/Skin:</b>	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.
<b>Ingestion/ Inhalation:</b>	Remove from source of exposure. If signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.

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## FIRE FIGHTING PROCEDURES

<b>Flash Point:</b>	360°F
<b>Lower Explosive Limit (%):</b>	N/D
<b>Upper Explosive Limit (%):</b>	N/D
<b>Autoignition Temperature:</b>	N/D
<b>Fire and Explosive Hazards:</b>	N/D
<b>Extinguishing Media:</b>	Use appropriate medium for the underlying cause of fire.
<b>Fire Fighting Instructions:</b>	Wear protective clothing and self-contained breathing apparatus.

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## SAFE HANDLING, USE, STORAGE, and DISPOSAL

<b>Handling:</b>	N/D
<b>Storage:</b>	Avoid excessive storage temperatures and direct sunlight (maintain below 110°F).
<b>Special Precautions:</b>	Wash hands and face after handling this compound.
<b>Spill or Release Procedures:</b>	Recover product and place in appropriate container for disposal. Ventilate and wash area.
<b>Disposal:</b>	Dispose of product in accordance with federal, state, and local regulations.

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## EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Field Application:</b>	Refer to product label.
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**PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance/Physical State:</b>	Tan to brown suspension.
<b>Odor:</b>	N/D
<b>Boiling Point:</b>	>400°F
<b>Melting/Freezing Point:</b>	N/A
<b>Vapor Pressure (mm Hg):</b>	N/A
<b>Vapor Density (Air=1):</b>	N/A
<b>Evaporation Rate:</b>	N/D
<b>Bulk Density:</b>	0.96 g/mL
<b>Specific Gravity:</b>	N/D
<b>Solubility:</b>	Emulsifiable in water.
<b>pH:</b>	4-6.5 (as a slurry)
<b>Viscosity:</b>	400-800 cps
<b>Reactivity:</b>	Alkalinity inactivates product.

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**LEGEND**

N/A = Not Applicable

L = Listed

® = A registered trademark of Abbott Laboratories

N/D = Not Determined

S = Short Term

™ = A trademark of Abbott Laboratories

N/L = Not Listed

C = Ceiling

ltr = Liter

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