

DiPel(R) 8L

ISSUED 06/11/01

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MATERIAL NAME: DiPel(R) 8L
Drug Code: 15533
List Number: 5263

MANUFACTURER: Valent BioSciences Corporation
870 Technology Way, Suite 100
Libertyville, Illinois 60048

Exclusive distributor in Algeria: Atlas Agro GmbH

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
CAS/RTECS NUMBERS: 68038-71-1/ 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

INGREDIENT NAME: Oil
CAS/RTECS NUMBERS: N/A / N/A
OSHA-PEL 8HR TWA: 5 mg/m3
STEL: N/L
CEILING: N/L
ACGIH-TLV 8HR TWA: 5 mg/m3
STEL: N/L
CEILING: N/L
OTHER 8HR TWA: N/A
LIMITS STEL: N/A
CEILING: N/A

DiPel(R) 8L

ISSUED 06/11/01

2. COMPOSITION/INFORMATION ON INGREDIENTS, continued

INGREDIENT NAME: Suspending Agent - identity withheld as a Trade
Secret

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 8HR TWA: N/A
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

EMERGENCY OVERVIEW: Inhalation of the carrier for this material could
result in lipoid pneumonia.

ROUTE(S) OF ENTRY: Skin: No
Inhalation: No
Ingestion: No

INGESTION RATING: None

SKIN ABSORPTION RATING: None

INHALATION RATING: None

CORROSIVENESS RATING: None

SKIN CONTACT RATING: None

SKIN SENSITIZATION RATING: None

DiPel(R) 8L

ISSUED 06/11/01

3. HAZARDS INFORMATION, continued

EYE CONTACT RATING: None

TARGET ORGANS: Lungs

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.

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: 360 F

FLASH POINT METHOD: Closed Cup

DiPel(R) 8L

ISSUED 06/11/01

5. FIRE FIGHTING PROCEDURES, continued

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 in appropriate container for disposal. Ventilate and wash spill area.

7. HANDLING AND STORAGE

HANDLING: N/D.

STORAGE: Avoid excessive storage temperatures and direct sunlight (maintain below 110F).

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Use local exhaust.

RESPIRATORY PROTECTION: Air purifying respirator with dust/mist filter (N95), if needed.

SKIN PROTECTION: Impervious.

EYE PROTECTION: Goggles.

OTHER PROTECTION: Wear saranex tyvek coverings if contact may occur.

DiPel(R) 8L

ISSUED 06/11/01

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/PHYSICAL STATE: Tan to brown suspension

ODOR: N/D

BOILING POINT: > 400 F

MELTING/FREEZING POINT: N/A

VAPOR PRESSURE (mm Hg): N/A

VAPOR DENSITY (Air=1): N/A

EVAPORATION RATE: N/D

BULK DENSITY: 0.96 g/mL

SPECIFIC GRAVITY: N/D

SOLUBILITY: Emulsifiable in water

pH: 4.0-6.5 (as a slurry)

VISCOSITY: 300-700 cps at 25 C

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: N/D

INCOMPATIBILITIES: Alkalinity inactivates product.

HAZARDOUS DECOMPOSITION PRODUCTS: N/D.

HAZARDOUS POLYMERIZATION: N/D.

11. TOXICOLOGICAL INFORMATION

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.

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

DiPel(R) 8L

ISSUED 06/11/01

11. TOXICOLOGICAL INFORMATION, continued

DERMAL IRRITATION: N/D. A similar material was mildly to moderately irritating in a skin irritation test (24-hour application) in rabbits. Moderately irritating with prolonged or repeated contact.

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(R) Technical Powder was not considered a sensitizer in a sensitization test 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 5000 mg/kg or more. In a 4-week inhalation study in guinea pigs, animals receiving 10.35 mg/l nominal (0.23 mg/l gravimetric) Dipel(R) 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 lipoid pneumonia.

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.

DiPel(R) 8L

ISSUED 06/11/01

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: 360 F

15. REGULATORY INFORMATION

TSCA STATUS: Exempt

CERCLA STATUS: N/D

SARA STATUS: N/D

RCRA STATUS: N/D

PROP 65 (CA): N/D

DiPel(R) 8L

ISSUED 06/11/01

16. OTHER INFORMATION

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

The information and recommendations contained herein are based upon tests believed to be reliable. However, Valent BioSciences does not guarantee their accuracy or completeness nor shall any of this information constitute a warranty, whether expressed or implied, as to the safety of the goods, the merchantability of the goods, or the fitness of the goods for a particular purpose. Adjustment to conform with actual conditions of usage may be required. Valent BioSciences assumes no responsibility for results obtained or for incidental or consequential damages arising from the use of these data. No freedom from infringement of any patent, copyright or trademark is to be inferred.



870 Technology Way, Suite 100
Libertyville, IL 60048 - 800-323-9597

© Valent BioSciences Corporation June 2001