

DiPel® PRO DF

ISSUED 04/09/01

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION
-----MATERIAL NAME: DiPel PRO DF
ABG-6404

EPA Reg. No.: 73049-39

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: ABG-6404*

CAS/RTECS NUMBERS: N/A / N/A

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

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

LIMITS STEL: N/A

CEILING: N/A

*Hazardous per OSHA criteria

3. HAZARDS INFORMATION
-----EMERGENCY OVERVIEW: No data are available for this material. Available
information suggests that longterm exposure could cause lung
fibrosis. Besides the respiratory system, possible target organs
include the gastrointestinal tract, skin, and eyes.ROUTE(S) OF ENTRY: Skin: N/D
Inhalation: Yes
Ingestion: No

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INGESTION RATING: None

SKIN ABSORPTION RATING: N/D

INHALATION RATING: N/D

CORROSIVENESS RATING: None

SKIN CONTACT RATING: None

SKIN SENSITIZATION RATING: N/D

EYE CONTACT RATING: None

TARGET ORGANS: Respiratory system and possibly gastrointestinal tract,
eyes, skin

CARCINOGENICITY RATING: NTP: NL IARC: NL OSHA: NL

ACGIH: NL

None

SIGNS AND SYMPTOMS: N/D. Available information suggests direct contact with the eyes or skin may cause mild irritation. Inhalation may result in respiratory tract irritation and chemical pneumonitis. Ingestion could result in gastrointestinal irritation, purging, fluid loss, fall in blood pressure and hypernatremia with longterm exposure producing pneumonociosis and lung fibrosis.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: N/D. Data suggest pre-existing eye, skin, lung and metabolic/gastrointestinal ailments.

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. No known antidote. Provide symptomatic/supportive care as necessary.

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SKIN: Remove from source of exposure. Flush with copious amounts of water. If irritation persists or signs of toxicity occur, seek medical attention. No known antidote. Provide symptomatic/supportive care as necessary.

INGESTION: Remove from source of exposure. If signs of toxicity occur, seek medical attention. No known antidote. Provide symptomatic/supportive care as necessary.

INHALATION: Remove from source of exposure. If signs of toxicity occur, seek medical attention. No known antidote. Provide symptomatic/supportive care as necessary.

5. FIRE FIGHTING PROCEDURES

FLASH POINT: N/D

FLASH POINT METHOD: N/D

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 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.

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7. HANDLING AND STORAGE

HANDLING: N/D.

STORAGE: Tight container.

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 high efficiency
particulate filter.

SKIN PROTECTION: Impervious.

EYE PROTECTION: Goggles.

OTHER PROTECTION: Wear tyvek coveralls during dusty operations.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/PHYSICAL STATE: Solid

ODOR: N/D

BOILING POINT: N/D

MELTING/FREEZING POINT: N/D

VAPOR PRESSURE (mm Hg): N/D

VAPOR DENSITY (Air=1): N/D

EVAPORATION RATE: N/D

BULK DENSITY: N/D

SPECIFIC GRAVITY: N/D

SOLUBILITY: N/D

pH: N/D

VISCOSITY: N/D

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10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: N/D

INCOMPATIBILITIES: N/D.

HAZARDOUS DECOMPOSITION PRODUCTS: N/D.

HAZARDOUS POLYMERIZATION: N/D.

11. TOXICOLOGICAL INFORMATION

ORAL TOXICITY: N/D. LD50 > 4,000 mg/kg (109 CFU/kg) in rats, no signs of toxicity or pathogenicity were observed, LD50 > 10,000 mg/kg in mice and > 400 mg/kg in dogs for a formulation of the active ingredient. Comparable values for other components were determined.

DERMAL TOXICITY: N/D.

INHALATION TOXICITY: N/D. Five human volunteers inhaled 100 mg of B.t. var. berliner per day for five days without ill effect. Inhaled B.t. organisms may remain viable until cleared by host defense systems but are not pathogenic.

CORROSIVENESS: N/D

DERMAL IRRITATION: N/D. A formulation of the active ingredient was mildly irritating in a skin irritation test (24 hour application) in rabbits; effects were reversible within 3 days.

OCULAR IRRITATION: N/D. a formulation of the active ingredient was mildly irritating in an eye irritation test in rabbits; effects were reversible within 2 days.

DERMAL SENSITIZATION: N/D. There was no evidence of sensitization for a formulation of the active ingredient, in guinea pigs induced by SC and IM injection of B.t. and challenged by inhalation.

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SPECIAL TARGET ORGAN EFFECTS: N/D. For a formulation of the active ingredient similar to the major component in toxicity studies in rats and sheep, no significant treatment-related effects were observed. In a 4-week inhalation study in guinea pigs, animals receiving 0.2 mg/l exhibited evidence of inflammation and reduced adrenal weights; two of twenty animals died (NOEL = 0.02 mg/l or 20 mg/m³). One major component has been reported to produce lung fibrosis in experimental animals and exposed workers. A minor component has been reported to produce fetotoxicity and musculoskeletal abnormalities in reproductive studies in animals.

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.

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

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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/D

15. REGULATORY INFORMATION

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

LEGEND: N/A = Not Applicable
N/D = Not Determined
N/L = Not Listed
L = Listed
C = Ceiling
S = Short-term

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