



## SAFETY DATA SHEET

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DiPel DF Biological Insecticide Dry Flowable

SDS# VBC-0031 Revision 6

ISSUED 03/19/2021

[Classification according to OSHA; 29 CFR § 1910.1200, (3/12/2012)]

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

#### 1.1 Product Identifier

**MATERIAL NAME:** DiPel DF Biological Insecticide Dry Flowable

**Synonyms:** Dipel WG, DiPel WDG, Bactospeine WG, DiPel Pro DF, DiPel 6.4 WG, Bactospeine DF, BioMax DF, BioBit DF, Bactospeine WG, Lepicide WG, Bacivers DF

**EPA Reg No.:** 73049-39

**Code Number:** 80250, A580255

**List Number:** 12046, A512046

**Chemical Family:** Microbial, B.t.k. strain ABTS-351

**Substance Registration Number(s)[REACH]:** N/A

#### 1.2 Relevant Identified Uses and Uses Advised Against

**Identified Uses:** Agricultural Insecticide

**Uses Advised Against:** It is a violation of Federal law to use this product in a manner inconsistent with its FIFRA pesticide labeling.

#### 1.3 Details of the supplier of the Safety Data Sheet

**Supplied By:** Valent BioSciences LLC  
1910 Innovation Way, Suite 100  
Libertyville, Illinois 60048

#### 1.4 EMERGENCY TELEPHONE NUMBERS

**Emergency Health or Spill:**

Outside the United States: 651-632-6184

Within the United States: 877-315-9819

### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the Substance or Mixture

Not Classified

#### 2.2 Labeling Elements

**Symbol(s)**

Symbols not required

**Signal Word**

WARNING

**Hazard Statement(s)**

None



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#### Precautionary Statement:

##### Prevention

Wash hands and face thoroughly after handling

##### Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF ON SKIN: Wash with soap and water.

##### Disposal

Dispose of contents/container in accordance with local/regional/national regulations.

#### 2.3 Other Hazards

None identified.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Component Name	Percent
None	Btk Fermentation solids	54.0
Trade Secret	Other ingredients	46.0

### 4. FIRST AID MEASURES

#### 4.1 Description of First Aid Measures

**GENERAL:** In all cases of doubt, seek medical attention.

**EYES:** Remove from source of exposure. Flush with copious amounts of water. Remove contact lenses, if present and easy to do, after the first 5 minutes, then continue rinsing. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic /supportive care as necessary.

**SKIN:** Remove from source of exposure. Take off contaminated clothing. Flush with copious amounts of water. Cover irritated skin with an emollient. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.

**INGESTION:** Remove from source of exposure. Move person to fresh air. Do NOT induce vomiting. Give large quantities of water. If signs of toxicity occur, seek medical attention. Provide symptomatic /supportive care as necessary.

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**INHALATION:** Remove from source of exposure. If signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary. If person is not breathing, call 911, then give artificial respiration.

**4.2 Most important Symptoms and Effects, both Acute and Delayed****Acute**

None known.

**Delayed**

No information on significant adverse effects

**4.3 Indication of any Immediate Medical Attention and Special Treatment Needed**

Treat symptomatically and supportively

**5. FIRE FIGHTING PROCEDURES****5.1 Extinguisher Media****Suitable Extinguisher Media**

Dry chemical, water spray, foam or carbon dioxide. Use appropriate medium for the underlying cause of the fire.

**Unsuitable Extinguisher Media**

None known

**5.2 Specific Hazards Arising from the Chemical**

None known

**Thermal decomposition products**

Carbon oxides, nitrogen oxides

**5.3 Advice to Firefighters****Fire Fighting Measures**

Areas containing this material should have fire-safe practices and electrical equipment in accordance with applicable governmental regulations for products with the flashpoint as shown in Section 9 (Physical and Chemical Properties).

**Protective Equipment and precautions for firefighters**

Fire fighter should wear full-face, self-contained breathing apparatus and impervious protective clothing. Fire fighters should avoid inhaling combustion products. See Section 8 (Exposure Controls / Personal Protection)

**Fire & Explosive hazard**

Not expected to be flammable.

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**6. ACCIDENTAL RELEASE MEASURES****6.1 Personal Precautions, Protective Equipment and Emergency Procedures**

Use in a well-ventilated area. Respiratory protection is not needed during normal product use. Wear eye protection appropriate to handling activities. Wear gloves. Wear appropriate body coverings if contact may occur. Where exposure level is not known, wear respirator protection suitable for expected level of exposure, in addition to the personal protection as recommended in Section 8.

**6.2 Environmental Precautions**

Keep out of drains, sewers, ditches and waterways. Avoid runoff to waterways and sewers.

**6.3 Methods and Materials for Containment and Cleaning Up**

Ventilate area. Wear appropriate personal protective equipment. Recover product with inert material (earth, sand, vermiculite), place into appropriate container for disposal. Do not flush to sewer.

**6.4 Reference to Other Sections**

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations. See Section 13 for Disposal Considerations.

US Regulations may require reporting spills of hazardous materials: See Section 15: REGULATORY INFORMATION for details on reportable quantities, if any.

**7. HANDLING AND STORAGE****7.1 Precautions for Safe handling**

Ventilate. Avoid contact with eyes, skin or clothing. Wash thoroughly after handling. Do not eat drink or smoke while working with product, obey reasonable safety precautions and practice good housekeeping. For filling operations respiratory protection may be recommended particularly in enclosed areas.

**7.2 Conditions for Safe Storage, Including Incompatibilities**

Protect against physical damage. Close containers of unused material. Store in a dry, cool, ventilated place, away from direct sunlight.

**Incompatibilities**

None Known

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**7.3 Specific End Use(s)**

Agricultural insecticide.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control Parameters**

**Component Exposure Limits**

None

**Derived No Effect Levels (DNELs)**

No DNELs available

**Predicted No Effect Concentrations (PNECs)**

No PNECs available

**8.2 Exposure Controls**

**Appropriate Engineering Controls**

Provide general ventilation. Where adequate general ventilation is unavailable use process enclosure, local exhaust ventilation, or other engineering controls

**SKIN PROTECTION:**

Wear protective clothing, including boots and gloves. Wear gloves. Wash thoroughly with soap and water after handling.

**EYE PROTECTION:**

Wear goggles, safety glasses with side shields or full-face shield when splashing or spraying of materials is likely.

**RESPIRATORY PROTECTION:**

For filling operations if dust/mist is produced respiratory protection is recommended or where respiratory protection is warranted, use dust/mist filtering respirator (MSHA/NIOSH approved number prefix TC-21C or a NIOSH approved respirator with any N, P, R or HE filter). Wash thoroughly with soap and water after handling.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Granule, yellow to brown	Odor:	Organic/Malt
pH:	≈4.1 (10% dilution)	Odor Threshold:	Not determined
Melting Point:	Not Applicable	Boiling Point:	Not Determined
Specific Gravity:	Not Determined	Solubility (H <sub>2</sub> O):	Not Determined
Octanol/H <sub>2</sub> O Coeff:	Not Determined	Bulk Density:	0.473 ± 0.1 g/ml
Molecular Weight:	Not Applicable	Evaporation Rate:	Not Applicable
Auto Ignition:	Not Determined	Decomposition Temp.:	Not Determined
Flash Point:	Not Determined	LFL:	Not Determined



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Vapor Density:	Not Determined	UFL:	Not Determined
VOC:	Solid	Vapor Pressure:	Not Determined
Kinematic Viscosity:	Not Determined	Flammability Class:	Not flammable

## 10. CHEMICAL STABILITY AND REACTIVITY

### 10.1 Reactivity

Material does not pose a significant reactivity hazard.

### 10.2 Chemical Stability

Stable under ordinary conditions of use and storage. Spontaneous reaction not possible.

### 10.3 Possibility of Hazardous Reactions

Does not undergo hazardous polymerization

### 10.4 Conditions to Avoid

None known

### 10.5 Incompatible Materials

None known

### 10.6 Hazardous Decomposition Products

Carbon oxides and unidentified organic compounds.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on Toxicological Effects

#### Likely Routes of Exposure

Inhalation: Yes  
Eye Contact: Yes  
Skin Contact: Yes  
Ingestion: Not likely

#### Product (or TGA) where noted) Toxicology

##### Acute Effects

Oral Toxicity: LD<sub>50</sub> > 5,050 mg/kg (rat) [EPA Toxicity Category IV]  
Dermal Toxicity: LD<sub>50</sub> > 2,020 mg/kg (rabbit)  
Inhalation Toxicity: Not able to generate sufficient product into the air  
Corrosiveness: Not corrosive.  
Dermal Irritation: Mild to slightly-irritating, [EPA Toxicity Category IV]  
Ocular Irritation: Mildly-irritating, (MMTS 14.5, cleared by day-7)  
Dermal Sensitization: Not a sensitizer (guinea pig)



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Mutagenicity Information: Components of this product are not listed as mutagens.  
Carcinogenicity Information: Components of this product are not listed as carcinogenic by NTP, IARC or OSHA.  
Developmental/Reproductive Toxicity: This material is not teratogenic  
Special Target Organ: None  
Aspiration Hazard: Not Applicable  
Repeat Dose Studies: Not Applicable, Acute Toxicity testing was all negative

## 12. ECOLOGICAL INFORMATION

### 12.1 Ecotoxicity (Data for a Concentrated Technical Powder)

Fish:  $LC_{50} > 2.87 \times 10^7$  cfu/L (96-H, Rainbow Trout)

Bird:  $LC_{50} > 2857$  mg/kg ( $5.7 \times 10^{10}$  cfu/kg) each day for 5 days (Sub-Acute Oral (dietary) - Bobwhite Quail)

Invertebrates:  $EC_{50} > 50$  mg/L (48-Hr) (Daphnia)  
21-day NOEC  $> 5.0$  mg/L (Daphnia)

Honeybee: Essentially Nontoxic to honeybee

### 12.2 Persistence and Degradability

No data available

### 12.3 Bioaccumulation potential

No data available

### 12.4 Mobility in Soil

No data available

### 12.5 Results of PBT and vPvB assessment

Assessments not performed

### 12.6 Other adverse effects

None known

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste Disposal Methods

Dispose of product in accordance with federal, state, provincial, and local regulations. Prevent contamination of environment by wastes.

US EPA WASTE NUMBER & DESCRIPTIONS:

There is no applicable EPA waste number. This product, if discarded, is not expected to be a characteristic or listed hazardous waste.



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### 14. TRANSPORTATION INFORMATION

DOT STATUS: Not regulated for domestic ground transport by US DOT  
UN PROPER SHIPPING NAME: N/A  
REMARKS: N/A

IATA/ICAO STATUS: Not regulated  
PROPER SHIPPING NAME: N/A  
REMARKS: N/A

IMDG STATUS: Not regulated  
PROPER SHIPPING NAME: N/A  
REMARKS: N/A

### 15. REGULATORY INFORMATION

#### 15.1 Safety, Health and Environmental Regulations / Specific Legislation

TSCA STATUS: Exempt

CERCLA STATUS: Not regulated as hazardous

SARA STATUS: Acute: No Chronic: No Fire: No CDT: No

RCRA STATUS: Not regulated as hazardous

State Right-To-Know: Not Listed

Consult applicable national, state provincial or local laws to determine regulations, laws or ordinances which may be applicable.

OSHA HAZARD COMMUNICATION STANDARD: Not defined by the OSHA Hazard Communication Standard, 29 CFR

#### 15.2 EPA Pesticide Regulations

EPA Registration Number: 73049-12

EPA Pesticide Label signal word: CAUTION

Product must have EPA Approved Pesticide Label attached to or accompanying all containers.

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions and limitations for its use.





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### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

##### CAUTION

Harmful if inhaled or absorbed through the skin. Causes moderate eye irritation. Avoid breathing dust or spray mist. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.

#### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Reclose containers of unused DiPel® DF. Store in a dry place inaccessible to children and out of sunlight.

**Pesticide Disposal:** Do not contaminate food or feed by disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**Container Disposal:** Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment by shaking and tapping sides and bottom to loosen clinging particles. Offer for recycling, if available, or dispose of empty bag in a sanitary landfill or by incineration. Do not burn, unless allowed by State and local ordinances.

### 16. OTHER INFORMATION

#### NFPA Hazard Ratings

Health: 0  
Flammability: 0  
Instability: 0

#### HMIS Hazard Ratings

Health: 0  
Flammability: 0  
Instability: 0

0 = Minimal  
1 = Slight  
2 = Moderate  
3 = Serious  
4 = Extreme

REASON FOR ISSUE: Add additional SAP product list number

APPROVAL DATE: 03/19/2021

SUPERSEDES DATE: 02/27/2020



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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 LLC

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This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-APPROVED PRODUCT LABEL (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use as required by the Occupational Health and Safety Act (29 CFR 1910.1200, "Hazcom"). The product label provides information specifically for product use in the ordinary course. Use, storage and disposal of pesticide products is regulated by the EPA under the authority of FIFRA through the product label. All necessary hazard classification and appropriate precautionary use, storage, and disposal information is set forth on that label or labeling accompanying the pesticide or to which reference is made on the label. It is a violation of federal law to use an EPA-registered pesticide product in any manner inconsistent with its labeling.



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