

1. IDENTIFICATION**Date of issue:** October 1, 2015**Product name:** Dipel Dust**Synonyms:** Bacillus thuringiensis, Kurstaki strain
Thuricide**Recommended use of the chemical and restrictions on use****Identified uses:** End use agricultural biological insecticide**EPA Reg No.:** 829-196**COMPANY IDENTIFICATION**

Southern Agricultural Insecticides, Inc.

P.O. Box 218

Palmetto, FL 34220

United States

EMERGENCY TELEPHONE NUMBER

Chemtrec (800) 424-9300 (24 hour transportation spill response)

Medical: Rocky Mountain Poison Control Center (866) 673-6671 (24hrs)

Customer Information Number: 941-722-3285

sales@southernag.com

This product is an EPA FIFRA registered pesticide. Some of the classifications on this SDS are not the same as the FIFRA label. Certain sections of this SDS are superseded by federal law governed by EPA for a registered pesticide.

Please see Section 15. REGULATORY INFORMATION for explanation.

2. HAZARDS IDENTIFICATION

OSHA/HCS status This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

The product has not been tested. The statements have been derived from the properties of the individual components.

**Classification of the
substance or mixture**

CARCINOGENICITY (inhalation) - Category 1A
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE)
respiratory tract) (inhalation) - Category 1

GHS label elements**Hazard pictograms****Signal Word**

Danger

Hazard statements May cause cancer if inhaled.
Causes damage to organs through prolonged or repeated exposure if inhaled. (respiratory tract)

Precautionary statements

General Avoid excessive dust generation. Avoid breathing dust. Use only with adequate ventilation.

Response Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention.

Storage Store locked up. Store in a dry place.

Disposal Dispose of content and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified May cause mechanical eye or skin irritation in high concentrations.
Product may become slippery when wet.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS #	% ByWt.	OSHA PEL:	ACGIH TLV:
Active Ingredient:				
Btk Fermentation solids	68038-71-1	41%	Not classified	Not classified
Other Ingredients:				
Hydrated aluminum silicate mineral		84.59%		
(as part of above material)				
quartz	14808-60-7		0.22 mg/m ³ (respirable)	0.025 mg/m ³ (rf)
mica	12001-26-2		3 mg/m ³ respirable fraction	3 mg/m ³ (rf)
pyrophyllite	12269-78-2		15 mg/m ³ total dust	10 mg/m ³ (rf)
Kaolin	1332-58-7	15%	15 mg/m ³ total dust	10 mg/m ³ (rf)

4. FIRST AID MEASURES

Description of Necessary Measures

Inhalation

Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.

Skin Contact

Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.

Eye Contact

Flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops or persists.

Ingestion

Get medical advice/attention if you feel unwell. Never give anything by mouth to an unconscious or convulsive person.

Most important symptoms/effects, acute and delayed Potential acute health effects

Eye contact Not a primary eye irritant. May cause mechanical irritation.

Skin contact No known significant effects or critical hazards.

Inhalation No known significant effects or critical hazards.

Ingestion No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact No specific data.

Skin contact No specific data.

Inhalation No specific data.

Ingestion No specific data.

Indication of Immediate Medical Attention and Special Treatment Needed, If Needed

Treat symptomatically and supportively

5. FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media This product is not combustible. Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media No restrictions on extinguishing media for this product.

Specific hazards arising from the chemical No specific fire or explosion hazard. This product is not flammable and does not support fire.

Hazardous thermal decomposition products Possible carbon oxides, nitrogen oxides

Special protective actions for fire-fighters Product may become slippery when wet.

Special protective equipment for fire-fighters Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, see Section 8. Avoid release to the environment.

Methods and Materials for Containment and Cleaning Up

Stop leak if possible without personal risk. Scoop spilled material into clean, dedicated equipment. Collect spilled material in appropriate container for disposal. Use methods to minimize dust. Avoid sweeping spilled dry material. If sweeping of a contaminated area is necessary, use a dust suppressant agent.

7. HANDLING AND STORAGE

Ventilate. Avoid breathing dust or vapor 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.

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 Alkalinity deactivates product

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
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quartz	OSHA PEL (United States). TWA respirable fraction formula: $10 \text{ mg/m}^3 / \% \text{ SiO}_2 + 2$ ACGIH TLV (United States). TWA 0.025 mg/m^3 from respirable fraction
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kaolin clay	OSHA PEL (United States). TWA 5 mg/m^3 from respirable fraction ACGIH TLV (United States). TWA 2 mg/m^3 from respirable fraction
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mica	OSHA PEL (United States). TWA 3 mg/m^3 from respirable fraction ACGIH TLV (United States). TWA 3 mg/m^3 from respirable fraction
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Btk Fermentation solids	OSHA PEL (United States). Not Classified ACGIH TLV (United States). Not Classified
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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 made of Latex or other impervious materials. 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

Physical state	Solid. [Powdered solid]
Color	White to tan.
Odor	slightly musty
pH	Not available
Melting point	Not available
Boiling point	Not applicable
Flash point	Product does not sustain combustion.

Evaporation rate	Not applicable
Vapor pressure	Not applicable
Vapor density	Not applicable
Specific Gravity:	Approx. 45 lb/ft ³
Solubility in water	Insoluble
Viscosity	Active ingredient suspends in water. Only slightly soluble. Not applicable

10. STABILITY AND REACTIVITY

Reactivity	No reactivity hazard is expected.
Chemical Stability	Stable at normal temperatures and pressure.
Possibility of Hazardous Reactions	
Hazardous polymerization	Not expected
Conditions to Avoid	Storage at high temperatures. Avoid generating dust.
Incompatible Materials	Alkalinity deactivates product
Hazardous Decomposition	
Combustion:	None

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

Based on component information:

Active Ingredient: Btk Fermentation solids

Product (or TGA) where noted) Toxicology

Acute Effects

Oral Toxicity:	LD50 > 5,050 mg/kg (rat) [EPA Toxicity Category IV]
Dermal Toxicity:	LD50 > 2,020 mg/kg (rabbit)
Inhalation Toxicity:	Not able to generate sufficient product into the air

KAOLIN CLAY: oral LD50, rat: 149 g/kg (Federation of American Societies for Experimental Biology, 1977; as cited by Cosmetic Ingredient Review, 2003). Not sufficient for classification.

Irritation/Corrosion

Btk Fermentation solids:

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)

CRYSTALLINE SILICA: Not irritating to the skin or eyes based on OECD 404 and 405 studies, respectively (EUROSIL, 2008).

KAOLIN CLAY: Not irritating to the skin or eyes based on OECD 404 and 405 studies, respectively (European Kaolin and Plastic Clays Association, 2005).

Exposure to high levels of any dust may result in mechanical irritation of the respiratory tract, skin and eyes; not sufficient for classification.

Sensitization

No information available for the product.

Mutagenicity

No information available for the product.

Carcinogenicity Conclusion/Summary **Component Carcinogenicity**

Active Ingredient: Btk Fermentation solids

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:	Eye and mucus membrane Irritation.
Aspiration Hazard:	Not Applicable
Repeat Dose Studies:	Not Applicable, Acute Toxicity testing was all negative

Kaolin (1332-58-7)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

DFG: Category 3B (could be carcinogenic for man)

Quartz (14808-60-7)

ACGIH: A2 - Suspected Human Carcinogen

IARC: Monograph 100C [2012]; Monograph 68 [1997] (Group 1 (carcinogenic to humans))

NTP: Known Human Carcinogen (respirable size)

OSHA: Present (respirable size)

Reproductive toxicity

No information available for the product.

Teratogenicity

KAOLIN CLAY: No fetal effects in rats in the absence of maternal toxicity (Patterson et al, 1977).

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

KAOLIN CLAY: Inhalation of respirable kaolin clay dust can cause kaolinosi-s, a form of pneumoco-niosis.

CRYSTALLINE SILICA: Inhalation of respirable crystalline silica dust can cause silicosis, a form of progressive pulmonary fibrosis.

High levels of exposure to any dust may aggravate pre-existing respiratory conditions

Aspiration hazard Not applicable.

Information on the likely Routes of entry anticipated: Oral, Inhalation.

routes of exposure

Potential chronic health effects

General

Not available.

Carcinogenicity May cause cancer if inhaled. Risk of cancer depends on duration and level of exposure.

Mutagenicity No information available for this product

Teratogenicity No information available for this product

Developmental effects No known significant effects or critical hazards.

Fertility effects No known significant effects or critical hazards.

Other information Not available.

12. ECOLOGICAL INFORMATION

Toxicity Not available.

Persistence and degradability Not available.

Bioaccumulative potential Not available.

Other adverse effects No known significant effects or critical hazards.

13. DISPOSAL CONSIDERATIONS

Disposal methods

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

14. TRANSPORT INFORMATION

US DOT Information

Not regulated as a hazardous material for transport.

TDG Information

Not regulated as dangerous goods for transport.

Marine Pollutant

No component(s) of this material is specifically listed in the IMDG Code as an identified marine pollutant.

15. REGULATORY INFORMATION

U.S. Federal regulations

United States inventory (TSCA 8b) All components are listed or exempted.

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 311/312

Classification Delayed (chronic) health hazard

State regulations

Massachusetts The following components are listed: SILICA, CRYSTALLINE, QUARTZ; mica; Kaolin

New York None of the components are listed.

New Jersey The following components are listed: SILICA, QUARTZ; QUARTZ (SiO₂); mica; KAOLIN

Pennsylvania The following components are listed: QUARTZ (SiO₂); Kaolin

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

International regulations

Canada inventory All components are listed or exempted.

Europe inventory All components are listed or exempted.

International lists

EPA Pesticide Regulations

EPA Registration Number: 829-196

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.

16. OTHER INFORMATION

Disclaimer: Southern Agricultural Insecticides, Inc. recommends that each customer or recipient of this SDS study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date. However, no warranty, express or implied, is given.

Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that this activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product.