

Theia Fungicide

August 16, 2022

SAFETY DATA SHEET

1. IDENTIFICATION

Product Identifier: Experimental strain *Bacillus subtilis* strain AFS032321
 Other Means of Identification: BF200-01
 Recommended Use: For agricultural crop, home, and garden uses.

MANUFACTURER:

AgBiome Innovations, Inc
 P.O. Box 14069
 Research Triangle Park, NC 27709

EMERGENCY TELEPHONE NUMBER

Call CHEMTREC Day or Night
 1-800-424-9300 CCN803914

2. HAZARDS IDENTIFICATION

GHS Classification: Not classified

Signal Word: CAUTION

Hazard Statements: None

Precautionary Statements: None

Unclassified Hazards: None

Percentage of Ingredients with
 Unknown Toxicity: Zero

3. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	CAS No.	%
<i>Bacillus subtilis</i> strain AFS032321	-	100

4. EMERGENCY AND FIRST AID MEASURES

EYE CONTACT: Minimally irritating. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

INHALATION: No evidence of acute toxicity. Remove person to fresh air and keep comfortable for breathing. Call a poison center if you feel unwell.

SKIN CONTACT: If irritation develops, wash thoroughly with soap and water.

INGESTION: No data available.

MOST IMPORTANT SYMPTOMS: None likely. May cause skin and eye irritation.

IMMEDIATE MEDICAL ATTENTION NEEDED: None needed.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: No data available.

SPECIFIC HAZARDS ARISING FROM CHEMICAL: None known.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS: None known.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES: Take all additional action necessary to prevent and remedy the adverse effects of the spill. This product should be prevented from entering bodies of water.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: In case of spill, collect material immediately. Wipe residual material from surfaces with cloth. Do not wash residues into drains or other waterways.

7. HANDLING and STORAGE

PRECAUTIONS FOR SAFE HANDLING: Avoid contact with eyes. Do not inhale.

CONDITIONS FOR SAFE STORAGE: Store in a cool, dry place in original packaging, and away from direct sunlight or heat sources.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS: 5 mg/m³.

ENGINEERING CONTROLS: When handlers use closed systems, enclosed cabs or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

PERSONAL PROTECTION:

Applicators and other handlers must wear:

- long-sleeved shirt and long pants
- waterproof gloves
- shoes plus socks

Mixer/loaders and applicators must wear a NIOSH approved particulate respirator with any N, R, or P filter with NIOSH approval number prefix TC-84A; or a NIOSH approved powered air purifying respirator with an HE filter with NIOSH approval number prefix TC-21C. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization. Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables are available, use detergent and hot water. Keep and wash PPE separately from other laundry.

9. PHYSICAL and CHEMICAL PROPERTIES

APPEARANCE: Tan Powder

ODOR THRESHOLD: Not determined

EVAPORATION RATE: Not determined

VAPOR PRESSURE: Not determined

RELATIVE DENSITY: 0.43 - 0.52 g/cm³

SOLUBILITY in water: Not determined

FLAMMABILITY LIMITS: Not determined

AUTO-IGNITION TEMP: 450°C

PARTITION COEFFICIENT: Not determined

ODOR: Slight fermentation odor

FLASH POINT: Not determined

FLAMMABILITY: Slightly flammable. Will burn. Class 1.

MELTING POINT: Not determined

BOILING POINT: Not determined

VAPOR DENSITY: Not determined

VISCOSITY: Not determined

pH: 6-7

DECOMPOSITION TEMP: Not determined

10. STABILITY and REACTIVITY

REACTIVITY: No data available.

STABILITY: No data available.

HAZARDOUS POLYMERIZATION: No data available.

CONDITIONS TO AVOID: None known.

INCOMPATIBILITY: None known.

HAZARDOUS THERMAL DECOMPOSITION PRODUCTS: No data available.

11. TOXICOLOGICAL DATA

INHALATION: No evidence of acute toxicity

SKIN IRRITATION: None

EYE IRRITATION: Minimally irritating

INGESTION: No data available

SENSITIZATION: No data available.

CARCINOGENICITY: No ingredients are listed by NTP, OSHA, or ACGIH as a carcinogen.

12. ECOLOGICAL INFORMATION

TOXICITY TO FISH: NOEC (30 day rainbow trout) $>1.0 \times 10^7$ CFU/mL

TOXICITY TO AQUATIC INVERTEBRATES: EC50 (Daphnia magna)
 $>1.0 \times 10^7$ CFU/mL

BIODEGRADABILITY: Not relevant for microorganisms

BIOACCUMULATION: Not relevant for microorganisms

MOBILITY IN SOIL: Not relevant for microorganisms

ENVIRONMENTAL PRECAUTIONS: Do not allow to get into surface water, drains or groundwater. Do not contaminate surface or groundwater by cleaning equipment or disposal of waste, including equipment wash water. Do not apply when weather conditions favor runoff or drift. Apply this product as specified on the label.

13. DISPOSAL CONSIDERATIONS

Do not reuse empty container. Wrap container and put in trash.

14. TRANSPORT INFORMATION

Not regulated for transportation.

15. REGULATORY INFORMATION

FIFRA (Federal Insecticide, Fungicide and Rodenticide Act): Regulated,
EPA Reg. No.: pending

16. OTHER INFORMATION

REVISION DATE: 8/16/2022