

## SAFETY DATA SHEET

### Section 1 PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** PureAg Bacillus Blend™  
**MANUFACTURER:** PureAg  
 437 East 2100 South  
 Salt Lake City, Utah 84115  
 www.pureagproducts.com  
 801-651-3201

**EMERGENCY:** 801-651-3201

### Section 2 HAZARDS IDENTIFICATION

#### CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

##### Classification

Combustible Dust  
 Eye Irritation: 2A H319

##### Label Elements

##### GHS-US Labeling

**Hazard Pictograms:** 

**Signal Word:** Warning

**Hazard Statements:** May form combustible dust concentrations in air.

**Precautionary Statements:** H319 - Causes serious eye irritation  
 H335 - May cause respiratory irritation  
 P264 - Wash hands, forearms, and exposed areas thoroughly after handling  
 P280 - Wear eye protection, protective clothing, protective gloves  
 P305+P351+P338 - If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 P337+P313 - If eye irritation persists: get medical advice/attention

### Section 3 COMPOSITION INFORMATION

#### Substance

Not applicable

#### Mixture\*

Name	Product Identifier	Percentage	Classification (GHS-US)
Proprietary**	Proprietary**	Proprietary**	Combustible Dust
Proprietary**	Proprietary**	Proprietary**	Eye Irritant 2A H319

\*This product contains other ingredients; however, they are present below the reporting threshold as defined in the United States 29CFR 1910.1200 (OSHA)

\*\*The specific chemical identity and/or exact percentage of composition have been withheld as a trade secret in accordance with Paragraph 1910.1200 of Title 29 of the Code of Federal Regulations. Full text of H-phrases: see section 16

### Section 4 FIRST AID MEASURES

#### DESCRIPTION OF FIRST AID MEASURES

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show label if possible).

**Inhalation:** Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

**Skin Contact:** Rinse immediately with plenty of water. Obtain medical attention if irritation develops or persists.

**Ingestion:** Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

#### MOST IMPORTANT SYMPTOMS AND EFFECTS, ACUTE & DELAYED

**Symptoms/Injuries:** Causes serious eye irritation.

**Inhalation:** May cause respiratory irritation.

**Skin Contact:** May cause skin irritation.

**Eye Contact:** Causes serious eye irritation.

**Ingestion:** Ingestion is likely to be harmful or have adverse effects.

#### INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL Treatment Needed

If you feel unwell, seek medical advice (show label where possible).

### Section 5 FIRE-FIGHTING MEASURES

#### EXTINGUISHING MEDIA

**Suitable Extinguishing Media:** Use extinguishing media appropriate for surrounding fire.

**Unsuitable Extinguishing Media:** Use of inappropriate extinguisher for surrounding fire.

#### SPECIAL HAZARDS ARISING FROM THE SUBSTANCE/MIXTURE

**Fire Hazard:** Combustible dust. Dust explosion hazard in air. Under conditions of fire this material may produce: Carbon dioxide (CO<sub>2</sub>), Carbon monoxide.

**Explosion Hazard:** Avoid dust clouds in combination with static electricity. Dust clouds can be explosive.

**Reactivity:** Hazardous reactions will not occur under normal conditions.

#### ADVICE FOR FIREFIGHTERS

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

### Section 6 ACCIDENTAL RELEASE MEASURES

#### PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

**General Measures:** Avoid all contact with skin, eyes, or clothing. Avoid breathing dust.

#### FOR NON-EMERGENCY PERSONNEL

**Protective Equipment:** Use appropriate personal protection equipment  
**Emergency Procedures:** Evacuate unnecessary personnel.

#### FOR EMERGENCY RESPONDERS

**Protective Equipment:** Equip cleanup crew with proper protection  
**Emergency Procedures:** Stop leak if safe to do so. Eliminate ignition sources. Ventilate area.

#### ENVIRONMENTAL PRECAUTIONS

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

**For Containment:** Contain and collect as any solid. Use explosion proof vacuum during clean up, with appropriate filter, do not mix with other materials. Use soft bristle brush or conductive rubber or conductive plastic shovel. Use caution, material is sensitive to initiation from sources such as heat, flame, shock, friction, or sparks.

**Methods for Cleaning Up:** Avoid generation of dust during clean up of spills, Vacuum must be fitted with a HEPA filter to prevent release of particulates during clean up.

### Section 7 HANDLING AND STORAGE

#### PRECAUTIONS FOR SAFE HANDLING

**Precautions for Safe Handling:** Take precautionary measures against static discharge.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

#### CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

**Storage Conditions:** Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

**Incompatible Products:** Strong acids. Strong Bases. Strong oxidizers.

**Section 8  
EXPOSURE CONTROLS/PERSONAL PROTECTION**

**CONTROL PARAMETERS**

No Occupational Exposure Limits (OELs) have been established for this product or its chemical components.

**EXPOSURE CONTROLS**

**Appropriate Engineering Controls:** Provide adequate ventilation to minimize dust concentrations. Ensure all national/local regulations are observed. Proper grounding procedures to avoid static electricity should be followed. Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

**Personal Protective Equipment:** Protective goggles, gloves, protective clothing, dust mask.

**Hand Protection:** Wear chemically resistant protective gloves.

**Eye Protection:** Chemical goggles or safety glasses.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** Use a NIOSH approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

**Section 9  
PHYSICAL AND CHEMICAL PROPERTIES**

**INFORMATION ON BASIC PHYSICAL & CHEMICAL PROPERTIES**

**Physical State:** Solid  
**Appearance:** Light Brown Powder  
**Odor:** No Data Available  
**Odor Threshold:** No Data Available  
**pH:** No Data Available  
**Relative Evaporation Rate (butyl acetate=1):** No Data Available  
**Melting Point:** No Data Available  
**Freezing Point:** No Data Available  
**Boiling Point:** No Data Available  
**Flash Point:** No Data Available  
**Auto-Ignition Temperature:** No Data Available  
**Decomposition Temperature:** No Data Available  
**Flammability (solid, gas):** No Data Available  
**Vapor Pressure:** No Data Available  
**Relative Vapor Density at 20°C:** No Data Available  
**Relative Density:** No Data Available  
**Specific Gravity:** No Data Available  
**Solubility:** No Data Available  
**Partition Coefficient: n-octanol/water:** No Data Available  
**Relative Density:** No Data Available

**OTHER INFORMATION**

No additional information available.

**Section 10  
STABILITY AND REACTIVITY**

**Reactivity:** Hazardous reactions will not occur under normal conditions.

**Chemical Stability:** Stable under recommended handling and storage conditions (see section 7).

**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

**Conditions to Avoid:** Direct sunlight. Extremely high or low temperatures. Ignition sources. Incompatible materials.

**Incompatible Materials:** Strong acids. Strong bases. Strong oxidizers.

**Hazardous Decomposition Products:** Under fire conditions this material may produce hazardous carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), various low molecular weight hydrocarbons and smoke.

**Section 11  
TOXICOLOGICAL INFORMATION**

**INFORMATION ON TOXICOLOGICAL EFFECTS**

**Acute Toxicity:** Not classified.

<b>Proprietary</b>	
<b>LD50 Oral Rat</b>	3 g/kg
<b>LC50 Inhalation Rat (mg/l)</b>	>42 g/m <sup>3</sup> (Exposure time: 1 h)

**Skin Corrosion/Irritation:** Not Classified

**Serious Eye Damage/Irritation:** Causes serious eye irritation.

**Respiratory or Skin Sensitization:** Not Classified

**Germ Cell Mutagenicity:** Not Classified

**Carcinogenicity:** Not Classified

**Reproductive Toxicity:** Not Classified

**Specific Target Organ Toxicity (Single Exposure):** Not Classified

**Specific Target Organ Toxicity (Repeated Exposure):** Not Classified

**Aspiration Hazard:** Not Classified

**Symptoms/Injuries After Inhalation:** May cause respiratory irritation.

**Symptoms/Injuries After Skin Contact:** May cause skin irritation.

**Symptoms/Injuries After Eye Contact:** Causes serious eye irritation.

**Symptoms/Injuries After Ingestion:** Ingestion is likely to be harmful or have adverse effects.

**Chronic Symptoms:**None expected under normal conditions of use.

**Section 12  
ECOLOGICAL INFORMATION**

**TOXICITY**

<b>Proprietary</b>	
<b>LC50 Fish 1</b>	5560 (5560-6080) mg/l (Exposure time: 96 h Species: Lepomis macrochirus [flow-through])
<b>EC50 Daphnia 1</b>	1000 mg/l (Exposure time: 48 h Species: Daphnia magna)
<b>LC 50 Fish 2</b>	12946 mg/l (Exposure time: 96 h Species: Lepomis macrochirus [static])
<b>EC50 Daphnia 2</b>	340.7 (340.7-469.2) mg/l (Exposure time: 48 h Species: Daphnia magna [static])

**PERSISTENCE AND DEGRADABILITY**

No additional information available.

**BIOACCUMULATIVE POTENTIAL**

<b>Proprietary</b>	
<b>BCF Fish 1</b>	(no bioaccumulation)

**MOBILITY IN SOIL**

No additional information available.

**OTHER ADVERSE EFFECTS**

Avoid release to the environment.

**Section 13  
DISPOSAL CONSIDERATIONS**

**WASTE TREATMENT METHODS**

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, and international regulations.

**Ecology - Waste Materials:** Avoid release to the environment.

**Section 14  
TRANSPORT INFORMATION**

**In Accordance with DOT:** Not regulated for transport.

**In Accordance with IMDG:** Not regulated for transport.

**In Accordance with IATA:** Not regulated for transport.

**Section 15  
REGULATORY INFORMATION**

**US FEDERAL REGULATIONS**

<b>Proprietary</b>
Listed on the United States TSCA (Toxic Substances Control Act) Inventory
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**US STATE REGULATIONS**

<b>Proprietary</b>
US - Texas - Effects Screening Levels - Long Term US - Texas - Effects Screening Levels - Short Term

**Section 16  
OTHER INFORMATION**

**REVISION**

7/20/15

**GHS Full Text Phrases**

Combustible Dust	Combustible Dust
Eye Irritation 2A	Serious eye damage/eye irritation Category 2A
H232	May form combustible dust concentrations in air
H319	Causes serious eye irritation

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910-1200.