

MicroLife Mycorrhizal Plus

Safety Data Sheet

Revision Date: 01/06/2019

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Version: 1.0

SECTION 1: PRODUCT/SUPPLIER IDENTIFICATION

1.1. Product Identifier

Product Form: Granulated Humic Shale

Product Name: Soil Conditioner and Fertilizer

This product is a granulated humic shale containing clays, minerals, beneficial microorganisms and other organic materials.

1.2. Intended Use of the Product

Use of the substance/mixture: Soil amendment.

1.3. Name, Address, and Telephone of the Responsible Party

Company

San Jacinto Environmental Supplies

2221 West 34th Street

Houston TX 77018

713-957-0909

www.microlifefertilizer.com

1.4. Emergency Telephone Number

Emergency Number : 713-957-0909

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

GHS-US classification

Eye Irrit. 2B H320

Full text of H-phrases: see section 16

2.2. Label Elements

GHS-US Labeling

Signal Word (GHS-US) : Warning

Hazard Statements (GHS-US) : H320 - Causes eye irritation.

Precautionary Statements (GHS-US) : 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.

2.3. Other Hazards

Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

2.4. Unknown Acute Toxicity (GHS-US)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

| Name | Product Identifier | % | GHS-US classification |
|--------------------------------|----------------------|-----|-----------------------|
| Humic shale*, oxidized lignite | (CAS No) 129521-66-0 | 100 | Comb. Dust |

*This product is an organic, weathered mineral of variable composition.

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of First Aid Measures

First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid Measures After Inhalation: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

First-aid Measures After Skin Contact: Wash affected area with water. Obtain medical attention if irritation develops or persists.

First-aid Measures After Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.

First-aid Measures After Ingestion: Rinse mouth and give one glass of water to drink. Do NOT induce vomiting. Obtain medical attention if irritation results.

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4.2. Most important symptoms and effects, both acute and delayed

Symptoms/Injuries: Causes eye irritation.

Symptoms/Injuries After Inhalation: Dust from this product may cause irritation to the respiratory tract.

Symptoms/Injuries After Skin Contact: Contact during a long period may cause slight irritation.

Symptoms/Injuries After Eye Contact: Causes eye irritation. Contact may cause irritation due to mechanical abrasion.

Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: Inhalation of dust may have adverse effects.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

Immediate medical attention is not required. If exposed or concerned, get medical advice and attention.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media appropriate for fire. No special media required.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable.

Explosion Hazard: Contains substances that are combustible dusts. Fine dust of the product is capable of dust explosion.

Reactivity: Hazardous reactions will not occur under normal conditions.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Fight fire with normal precautions. Use firefighting measures appropriate for the fire.

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Handle in accordance with good industrial hygiene and safety practice.

Protective Equipment: Use appropriate personal protection equipment (PPE).

6.1.1. For Emergency Responders

Protective Equipment: Equip cleanup crew with proper protection. Respiratory equipment is not normally needed.

6.2. Environmental Precautions: None

6.3. Methods and Material for Containment and Cleaning Up

Methods for Cleaning Up: Collect spillage and store to re-use.

Reference to Other Sections

See Heading 8. Exposure controls and personal protection. See Section 13, Disposal Considerations.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Precautions for Safe Handling: Fine dust of the product is capable of dust explosion. If dust is generated: avoid all sources of ignition: heat, sparks, and open flame.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Keep Store in a dry, cool place.

Incompatible Products: None.

7.3. Specific End Use(s)

Soil amendment.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

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| Particulates not otherwise classified (PNOC) (RR-00072-6) | | |
|---|-------------------------------------|--|
| USA ACGIH | ACGIH TWA (mg/m ³) | 3 mg/m ³ Respirable fraction 10 mg/m ³ Total Dust |
| USA OSHA | OSHA PEL (TWA) (mg/m ³) | 5 mg/m ³ Respirable fraction 15 mg/m ³ Total Dust |

8.2. Exposure Controls

Appropriate Engineering Controls

: Provide adequate ventilation to minimize dust concentrations. Ensure all national/local regulations are observed.

Personal Protective Equipment

: Dust formation: NIOSH approved dust mask. Gloves. Protective goggles.



Materials for Protective Clothing

: Chemically resistant materials and fabrics.

Hand Protection

: Wear protective gloves.

Eye Protection

: Chemical safety goggles.

Skin and Body Protection

: Wear suitable protective clothing.

Respiratory Protection

: If exposure limits are exceeded or irritation is experienced, NIOSH approved respiratory protection should be worn.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

| | |
|--|------------------------------|
| Physical State | : Solid |
| Appearance | : Black 1 - 2.5 mm granules |
| Odor | : None |
| Odor Threshold | : No data available |
| pH | : 3 - 4 |
| Evaporation Rate | : No data available |
| Melting Point | : 572 Degrees F |
| Freezing Point | : No data available |
| Boiling Point | : No data available |
| Flash Point | : >300 Degrees F |
| Auto-ignition Temperature | : No data available |
| Decomposition Temperature | : No data available |
| Flammability (solid, gas) | : Not flammable |
| Vapor Pressure | : No data available |
| Relative Vapor Density at 20 °C | : No data available |
| Relative Density | : No data available |
| Specific Gravity | : 65 lbs/cubic ft |
| Solubility | : Partially soluble in water |
| Partition Coefficient: N-Octanol/Water | : No data available |
| Viscosity | : No data available |

9.2. Other Information

No additional information available

SECTION 10: STABILITY AND REACTIVITY

- 10.1. Reactivity:** Hazardous reactions will not occur under normal conditions.
- 10.2. Chemical Stability:** Stable under recommended handling and storage conditions (see Section 7).
- 10.3. Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.
- 10.4. Conditions to Avoid:** None known.
- 10.5. Incompatible Materials:** Strong bases, strong oxidizing agents, and alkalis.
- 10.6. Hazardous Decomposition Products:** Not applicable.

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SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information On Toxicological Effects

Acute Toxicity: Not classified

| | |
|------------------------------|--------------|
| Ashes, residues (68131-74-8) | |
| LD50 Oral Rat | > 6000 mg/kg |

Skin Corrosion/Irritation: Not classified.

pH: 3

Serious Eye Damage/Irritation: Causes eye irritation.

pH: 3

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: Dust from this product may cause irritation to the respiratory tract.

Symptoms/Injuries After Skin Contact: Contact during a long period may cause slight irritation.

Symptoms/Injuries After Eye Contact: Causes eye irritation. Contact may cause irritation due to mechanical abrasion.

Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: Inhalation of dust may have adverse effects.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General : Not classified.

12.2. Persistence and Degradability

| | |
|-------------------------------|------------------|
| Soil Conditioner | |
| Persistence and Degradability | Not established. |

12.3. Bioaccumulative Potential

| | |
|---------------------------|------------------|
| Soil Conditioner | |
| Bioaccumulative Potential | Not established. |

12.4. Mobility in Soil No additional information available

12.5. Other Adverse Effects No additional information available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste Disposal Recommendations: No special precautions are needed for this mined mineral. Dispose of contents/container in accordance with local, regional, national, and international regulations.

SECTION 14: TRANSPORT INFORMATION

14.1. In Accordance with DOT Not regulated for transport

14.2. In Accordance with IMDG Not regulated for transport

14.3. In Accordance with IATA Not regulated for transport

SECTION 15: REGULATORY INFORMATION

15.1 US Federal Regulations

| | |
|---|------------------------------|
| Soil Conditioner | |
| SARA Title III Hazard Classification (Yes/No) | Immediate (acute) Health : N |
| Sudden Release of | Delayed (Chronic) Health: N |
| | Pressure: |
| | Fire: N |
| | Reactive: N |

15.2 US State Regulations

No data available.

National Fire Protection Association Rating: Health: 1 Fire: 0 Reactivity: 0

Rating level : (4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

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SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision Date : 01/06/2019
Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

| | |
|---------------|---|
| Comb. Dust | Combustible Dust |
| Eye Irrit. 2B | Serious eye damage/eye irritation Category 2B |
| Comb. Dust | May form combustible dust concentrations in air |
| H320 | Causes 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.

SDS US (GHS HazCom)