



# Micro Hume

## SAFETY DATA SHEET

### SECTION 1: Identification

#### 1.1 GHS Product identifier

Product name Micro Hume

#### 1.3 Recommended use of the chemical and restrictions on use

Liquid Micronutrient Fertilizer for Agriculture use.

#### 1.4 Manufacturer

Name UAS of America  
Address 534 CR 529A  
Lake Panasoffkee FL 33538  
USA  
Telephone (352) 793-1682

#### 1.5 Emergency phone number

1-800-424-9300

### SECTION 2: Hazard identification

#### 2.1 Classification of the substance or mixture

GHS classification in accordance with: (US) OSHA (29 CFR 1910.1200)

Not a hazardous substance or mixture.

#### 2.2 GHS label elements, including precautionary statements

Not a hazardous substance or mixture.

#### 2.3 Other hazards which do not result in classification

Not a hazardous substance or mixture.

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

##### Components

Component	Concentration
Magnesium Glucoheptonate (CAS no.: 68475-44-5; EC no.: 270-642-6)	Not specified*
Iron Glucoheptonate (CAS no.: 25126-38-9)	Not specified*
Manganese Glucoheptonate (CAS no.: 12565-60-5)	Not specified*
Zinc Glucoheptonate (CAS no.: 12565-63-8)	Not specified*
Copper Glucoheptonate (CAS no.: N/A)	Not specified*
Sodium Borate (CAS no.: 12280-03-4; EC no.: 234-541-0; Index no.: 005-020-00-3)	Not specified*
Sodium Molybdate (CAS no.: 10102-40-6)	Not specified*
Leonardite Shale (CAS no.: 129521-66-0)	Not specified+

#### Trade secret statement (OSHA 1910.1200(i))

\*The specific chemical identities and/or actual concentrations or actual concentration ranges for one or more listed components are being withheld as trade secrets under the US regulation 29 CFR 1910.1200(i).



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### SECTION 4: First-aid measures

#### 4.1 Description of necessary first-aid measures

General advice	In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).
If inhaled	<p>Call a poison center or doctor if you feel unwell.</p> <p>Acute and delayed symptoms and effects: May cause respiratory irritation. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.</p>
In case of skin contact	<p>Wash with plenty of soap and water for at least 15 minutes. Contact physician if irritation persists</p> <p>Acute and delayed symptoms and effects: May cause skin irritation. Signs/symptoms may include localized redness, swelling, and itching.</p>
In case of eye contact	<p>Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention.</p> <p>Acute and delayed symptoms and effects: May cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.</p>
If swallowed	Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### 4.2 Most important symptoms/effects, acute and delayed

Not expected to present a significant hazard under conditions of normal use.

### SECTION 5: Fire-fighting measures

#### 5.1 Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### 5.2 Specific hazards arising from the chemical

This product is non-reactive under normal conditions of use, storage, and transport.

#### 5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

#### Further information

Use water spray to cool unopened containers.

### SECTION 6: Accidental release measures



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### 6.1 Personal precautions, protective equipment and emergency procedures

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use personal protection recommended in Section 8.

As an immediate precautionary measure, isolate spill or leak area in all directions. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate enclosed areas.

### 6.2 Environmental precautions

Do not let product enter drains unless in accordance with Federal, State and local laws and regulations.

### 6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

#### Reference to other sections

For disposal see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. For precautions see section 2. Keep away from children and pets. Do not contaminate any water source.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Keep away from direct sunlight, intense heat, and freezing temperatures. Store in temperatures 40°F - 78°F. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Avoid using containers, pipes and fittings made of aluminum, mild steel, zinc-clad or, copper bearing alloys.

#### Specific end use(s)

Apart from the uses mentioned in section 1 no other specific uses are stipulated.

## SECTION 8: Exposure controls/personal protection

### 8.2 Appropriate engineering controls

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

### 8.3 Individual protection measures, such as personal protective equipment (PPE)

#### Eye/face protection

Safety glasses if there is a splash hazard. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Protective gloves. Consult manufacturer specifications for further information.

#### Body protection

Wear protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.



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### Respiratory protection

Not required under normal use conditions. Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### Thermal hazards

No data available.

### Environmental exposure controls

Do not let product enter drains.

## SECTION 9: Physical and chemical properties

### Basic physical and chemical properties

Physical state	Liquid
Appearance	Liquid
Color	Dark Brown Liquid
Odor	Mild Odor
Odor threshold	No data available.
Melting point/freezing point	No data available.
Boiling point or initial boiling point and boiling range	No data available.
Flammability	No data available.
Lower and upper explosion limit/flammability limit	No data available.
Flash point	No data available.
Explosive properties	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Oxidizing properties	No data available.
pH	No data available.
Kinematic viscosity	No data available.
Solubility	No data available.
Partition coefficient n-octanol/water (log value)	No data available.
Vapor pressure	No data available.
Evaporation rate	No data available.
Density and/or relative density	1.288
Relative vapor density	No data available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

No data available.



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### 10.4 Conditions to avoid

Avoid storing in direct sunlight and avoid extremes of temperature.

### 10.5 Incompatible materials

Water reactive materials, strong oxidizers

### 10.6 Hazardous decomposition products

No data available.

## SECTION 11: Toxicological information

### Information on toxicological effects

#### Acute toxicity

Likely Routes of Exposure: Eye contact. Skin contact. Inhalation. Ingestion.

#### Skin corrosion/irritation

May cause skin irritation. Signs/symptoms may include localized redness, swelling, and itching.

#### Serious eye damage/irritation

May cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

#### Respiratory or skin sensitization

No data available.

#### Germ cell mutagenicity

No data available.

#### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

#### Reproductive toxicity

No data available.

#### Summary of evaluation of the CMR properties

No data available.

#### Specific target organ toxicity (STOT) - single exposure

No data available.

#### Specific target organ toxicity (STOT) - repeated exposure

No data available.



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### **Aspiration hazard**

No data available.

## **SECTION 12: Ecological information**

### **Toxicity**

In high concentrations, this product may be harmful to both terrestrial and aquatic plant or animal life.

### **Persistence and degradability**

No data available on product

### **Bioaccumulative potential**

No data available on product

### **Mobility in soil**

No data available.

### **Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

### **Other adverse effects**

No data available.

## **SECTION 13: Disposal considerations**

### **Disposal methods**

#### **Product disposal**

Disposal should be in accordance with applicable Federal, State and local laws and regulations. Local regulations may be more stringent than State or Federal requirements.

#### **Packaging disposal**

Dispose of as unused product.

## **SECTION 14: Transport information**

### **Not Regulated**

Not dangerous goods

### **IMDG**

Not dangerous goods

### **IATA**

Not dangerous goods



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### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations specific for the product in question

##### Toxic Substances Control Act (TSCA) Inventory

Not listed

##### SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

##### SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

##### SARA 311/312 Hazards

No SARA Hazards

##### Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

##### New Jersey Right To Know Components

No components are subject to the New Jersey Right to Know Act.

##### Pennsylvania Right To Know Components

No components are subject to the Pennsylvania Right To Know Act.

##### California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

### SECTION 16: Other information

Date of Revision: January 3, 2023

Prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

#### 16.1 Further information/disclaimer

DISCLAIMER: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of information for their particular purposes. In no event shall UAS of America, be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, whatsoever arising, even if UAS of America has been advised of the possibility of such damages.