



## Material Safety Data Sheet

**Document Group:** CENO  
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**Version Number:** 1.1  
**Supersedes Date:** All previous

### SECTION 1: Identification

- 1.1. Product identifier:** Alumina-Silicate Microspheres / Cenospheres  
**1.2. Product Identifier(s):** Cenospheres, all grades  
**1.3. Intended Use:** used in cementing applications, in paint and coating applications.  
**1.4. Supplier's details**  
Lushbury Fertilizer Corporation  
10 Maple Street, Port Washington, NY, 11050, USA  
**1.5. Emergency telephone and contact details:** +1-516-308-2787 // sales@lushburyfertilizer.com

### SECTION 2: Hazard identification

- 2.1. Hazard classification:** Not classified as hazardous according to OSHA Hazard Communication Standard, 29 CFR 1910.1200  
**2.2. GHS Label elements: Signal word:** none  
**2.3. Hazards not otherwise classified:** spilled material may be dusty and can cause irritation if inhaled.

### SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
Hollow microspheres, ashes residue	93924-19-7	100

### SECTION 4: First aid measures

- 4.1. Description of first aid measures**  
**Inhalation:** Remove person to fresh air. If you feel unwell, get medical attention.  
**Skin Contact:** Wash with soap and water. If signs/symptoms develop, get medical attention.  
**Eye Contact:** Flush with large amounts of water. Remove contact lenses, if possible, continue rinsing. If signs/symptoms persist, get medical attention.  
**If Ingested:** Rinse mouth. If you feel unwell, get medical attention.  
**4.2. Most important symptoms and effects, both acute and delayed:** See Section 11.1. Information on toxicological effects.  
**4.3. Indication of any immediate medical attention and special treatment required:** Not applicable

### SECTION 5: Fire-fighting measures

- 5.1. Suitable extinguishing media:** Material will not burn / non-combustible. Use a fire-fighting agent applicable for surrounding fire.  
**5.2. Special hazards arising from the substance or mixture:** None inherent in this product.  
**5.3. Special protective actions for fire-fighters:** No special protective actions for fire-fighters are anticipated.

### SECTION 6: Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures:** avoid handling in a way that generates dust. Evacuate area. Ventilate the area with fresh air. Observe precautions from other areas. Collect spilled material into air tight containers.  
**6.2. Environmental precautions:** Avoid release to the environment.  
**6.3. Methods and material for containment and cleaning up:** Collect as much of the spilled material as possible. Wet the area to avoid dusting. Sweep and place into a closed container approved for transportation by local authorities. Dispose of collected material as soon as possible in accordance with applicable local national / regulations.

### SECTION 7: Handling and storage

- 7.1. Precautions for safe handling:** for industrial use only. Avoid breathing and dust generation. Do not drink or smoke while using this product. Wash thoroughly after handling.  
**7.2. Conditions for safe storage including any incompatibilities:** Keep away from hydrofluoric acid. Keep tightly sealed

### SECTION 8: Exposure controls/personal protection

- 8.1. Occupational exposure limits:** No occupational exposure limit values exist for any of the components of this SDS.

**8.2. Exposure controls:** avoid inhalation of dust. Ensure good ventilation. Wear particulate respirator, use gloves and eye protection. Facilities for eye flush should be available

### 8.3. Engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

**8.4. Personal protective equipment (PPE) Eye/face protection:** Select and use eye/face protection to prevent contact based on results of an exposure assessment. The following eye/face protection(s) are recommended: Safety Glasses with side shields

**Skin/hand protection:** No chemical protective gloves are required, but recommended.

**Respiratory protection:** use respirators as part of a full respiratory protection program - full facepiece air-purifying respirator suitable for particulates is suggested. For questions about specific application, consult with your respirator manufacturer.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties:

Specific Physical Form:	Fine Powder
Odor	Odorless
pH	9 - 11 [Details: 1% aqueous solution]
Melting point	1000 °C
Boiling Point	Not Applicable
Flash Point	Not Applicable
Evaporation rate	Not Applicable
Flammability (solid, gas)	Not Classified
Flammable Limits(LEL)	Not Applicable
Flammable Limits(UEL)	Not Applicable
Vapor Pressure	Not Applicable
Vapor Density	Not Applicable
Specific Gravity	0.65 – 0.85
Solubility in Water	Negligible
Autoignition temperature	Not Applicable
Decomposition temperature	Not Applicable
Viscosity	Not Applicable
Bulk density	450 KG / CBM
Volatile Organic Compounds	Not Applicable

## SECTION 10: Stability and reactivity

**10.1. Reactivity:** This material is considered to be non reactive under normal use conditions.

**10.2. Chemical stability:** Stable.

**10.3. Possibility of hazardous reactions:** Hazardous polymerization will not occur.

**10.4. Conditions to avoid:** None known.

**10.5. Incompatible materials:** suggested to avoid Hydrofluoric Acid (HF)

## SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

### 11.1. Information on Toxicological effects

**Based on test data and/or information on the components, this material may produce the following health effects:**

#### Inhalation:

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

**Skin Contact:** Mechanical Skin irritation: Signs/symptoms may include abrasion, redness, pain, and itching.

**Eye Contact:** Mechanical eye irritation: Signs/symptoms may include pain, redness, tearing and corneal abrasion.

**Ingestion:** May be harmful if swallowed. Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

**Toxicological Data:** If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

### Acute Toxicity

Name	Route	Species	Value
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Overall product	Ingestion	No data available; calculated ATE2,000 - 5,000 mg/kg
Ceramic Microspheres	Dermal	LD50 estimated to be > 5,000 mg/kg
Ceramic Microspheres	Ingestion	LD50 estimated to be 2,000 - 5,000 mg/kg

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

Name	Species	Value
Ceramic Microspheres	Rabbit	No significant irritation

#### Serious Eye Damage/Irritation

Name	Species	Value
Ceramic Microspheres	Rabbit	Mild irritant

#### Skin Sensitization

For the component/components, either no data are currently available or the data are not sufficient for classification.

#### Respiratory Sensitization

For the component/components, either no data are currently available or the data are not sufficient for classification.

#### Germ Cell Mutagenicity

Name	Route	Value
Ceramic Microspheres	In Vitro	Some positive data exist, but the data are not sufficient for classification

#### Carcinogenicity

Name	Route	Species	Value
Ceramic Microspheres	Inhalation	Multiple animal species	Some positive data exist, but the data are not sufficient for classification

#### Reproductive Toxicity

##### Reproductive and/or Developmental Effects

For the component/components, either no data are currently available or the data are not sufficient for classification.

##### Target Organ(s)

##### Specific Target Organ Toxicity - single exposure

For the component/components, either no data are currently available or the data are not sufficient for classification.

##### Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Ceramic Microspheres	Inhalation	pulmonary fibrosis	Not classified	Multiple animal species	NOAEL not available	
Ceramic Microspheres	Inhalation	respiratory system	Not classified	Human	NOAEL not available	occupational exposure

#### Aspiration Hazard

For the component/components, either no data are currently available or the data are not sufficient for classification.

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

## SECTION 12: Ecological information

#### Ecotoxicological information

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

#### Chemical fate information

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Dispose of waste product in a permitted industrial waste facility. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

**EPA Hazardous Waste Number (RCRA):** Not regulated

## SECTION 14: Transport Information

Not regulated per U.S. DOT, IATA or IMO.

These transportation classifications are provided as a customer service. As the shipper YOU remain responsible for complying with all applicable laws and regulations, including proper transportation classification and packaging. We do not guarantee the accuracy of this classification information. This information applies only to transportation classification and not the packaging, labeling, or marking requirements.

## SECTION 15: Regulatory information

**15.1. US Federal Regulations:** contact y our local regulatory agency

### EPCRA 311/312 Hazard Classifications: Physical Hazards

Not applicable
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### Health Hazards

Not applicable
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**15.2. State Regulations:** contact your local regulatory agency

**15.3. Chemical Inventories:** This product is an article as defined by TSCA regulations, and is exempt from TSCA Inventory listing requirements.

**15.4. International Regulations:** contact your local regulatory agency

## SECTION 16: Other information

**NFPA Hazard Classification: Health: 1 Flammability: 0 Instability: 0 Special Hazards: None**

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

### HMIS Hazard Classification

**Health: 1 Flammability: 0 Physical Hazard: 0 Personal Protection: X - See PPE section.**

**DISCLAIMER:** The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued. SUPPLIER MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of this product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.