# Safety Data Sheet Microsphere 0.28

## Section 1
## Identification of the Substance and of the Supplier

### 1.1 Product Identifier

| | |
|---|---|
| **Product Name/Identification:** | **XOL – *all grades*** |
| **Synonyms:** | Inorganic hollow microsphere powder |

### 1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advices Against

| | |
|---|---|
| **Recommend Uses:** | Construction and building materials with effect of thermal insulation |
| **Uses Advised Against:** | None known |

### 1.3 Details of the Supplier of the SDS

| | |
|---|---|
| **Manufacturer/Supplier:** | Sphere One, Inc. |
| **Street Address:** | 601 Cumberland, Ste. C |
| **City, State and Zip Code:** | Chattanooga, TN 37404 |
| **Customer Service Telephone:** | 423.629.7160 |
| **E-mail Address:** | jstone@sphereone.net |

### 1.4 Emergency Telephone Number

| | |
|---|---|
| **Emergency Phone Number:** | 1-800-424-9300 (ChemTrec) |
| **Hours Available:** | 24 hr 7 days/week |

## Section 2
## Hazards Identification

### 2.1 Classification of the Substance

Substance/mixture is not classified as dangerous according to 29 CFR 1910.1200 Appendix A and B

Substance/mixture is not classified as hazardous accorging to GHS

## 2.2 Label Elements

Substance/mixture is not classified as dangerous according to 29 CFR 1910.1200 Appendix A and B

Substance/mixture is not classified as hazardous accorging to GHS

## 2.3 Other Hazards

Substance/mixture may generate dust during handling and use. Use appropriate control measures to contain airborne particulate.

# Section 3
# Composition/Information on Ingredients

| *Substance* | *CAS No.* | *Percentage (%)* |
|---|---|---|
| *Expanded perlite* | *93763-70-3* | *100%* |
| *May contain crystalline silica* | *14808-60-7* | *<0.1%* |

# Section 4
# First Aid Measures

## 4.1 Description of First Aid Measures

| | |
|---|---|
| **Inhalation:** | If product is inhaled and irritation of the nose or coughing occurs, remove person to fresh air. Get medical advice/attention if respiratory symptoms persist. |
| **Skin Contact:** | If skin exposure occurs, wash with soap and water. |
| **Eye Contact:** | If product gets into the eye, rinse cautiously with water for at least 5 minutes. Remove contact lenses, if present and easy to do. Seek medical attention/advice if irritation occurs or persists. |
| **Ingestion:** | Do not induce vomiting. Seek medical attention id victim is not breathing or uncomfortable. |

## 4.2 Most Important Health Effects, Both Acute and Delayed

**Acute effects:** Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), or in case of inhalation (irritant).

**Chronic effects:** Upper respiratory irritant: May aggravate pre-existing respiratory conditions. Long term inhalation of respirable crystalline silica can cause disabling lung disease (silicosis). Potential irritant for skin sensitization.

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

Seek first aid or call a doctor or Poison Control Center if contact with eyes occurs and irritation remains after rinsing.

## Section 5
## Firefighting Measures

### 5.1 Extinguishing Media

| | |
|---|---|
| **Suitable Extinguishing Media:** | Product is not flammable. Use extinguishing media appropriate for surrounding fire. |
| **Unsuitable Extinguishing Media:** | Not applicable, the product is not flammable. |

### 5.2 Special Hazards Arising From the Substance or Mixture

| | |
|---|---|
| **Hazardous Combustion Products:** | Non-combustible. |

### 5.3 Advice for Firefighters

| | |
|---|---|
| **Special Protective Equipment and Precautions for Firefighters:** | As with any fire, wear self-contained breathing apparatus (NIOSH approved or equivalent) and full protective gear. |

## Section 6
## Accidental Release Measures

### 6.1 Personal Precautions, Protective Equipment and Emergency Procedures

| | |
|---|---|
| **Personal precautions/Protective Equipment:** | See Section 8.3 Individual Protective Measures. For concentrations exceeding Occupational Exposure Levels (OELs), use a NIOSH approved respirator to reduce exposure to acceptable levels |
| **Emergency procedures:** | Use scooping, water spraying/flushing/misting or ventilated vacuum cleaning systems to clean up spills. Do not use pressurized air. |

### 6.2 Environmental precautions

| | |
|---|---|
| **Environmental precautions:** | Prevent contamination of drains or waterways and dispose according to local and national regulations. |

## 6.3 Methods and Material for Containment and Cleaning Up

| | |
|---|---|
| **Methods and materials for containment and cleaning up:** | Do not use brooms or compressed air to clean surfaces. Use dust collection vacuum and extraction systems.<br>Large spills of dry product should be removed by a vacuum system. Dampened material should be removed by mechanical means and recycled or disposed of according to local and national regulations. |

See Sections 8 and 13 for additional information on exposure controls and disposal.

# Section 7
# Handling and Storage

## 7.1 Precautions for Safe Handling

Practice good housekeeping. Use adequate exhaust ventilation, dust collection and/or water mist to maintain airborne dust concentrations below permissible exposure limits.

Do not permit dust to collect on walls, floors, sills, ledges, machinery, or equipment. Maintain and test ventilation and dust collection equipment. In cases of insufficient ventilation, wear a NIOSH approved respirator. Avoid contact with skin and eyes. Wash or vacuum clothing that has become dusty. Avoid eating, smoking, or drinking while handling the material.

## 7.2 Conditions for safe storage, including any incompatibilities

Minimize dust produced during loading and unloading.

# Section 8
# Exposure Controls/Personal Protection

## 8.1 Control Parameters

| SUBSTANCE | | OSHA PEL TWA ($mg/m^3$) | ACGIH TLV TWA ($mg/m^3$) |
|---|---|---|---|
| **Particulates Not Otherwise Regulated** | Total | 15 $mg/m^3$ total dust | 10 $mg/m^3$ total inhalable |
| | Respirable | 5 $mg/m^3$ total respirable | 3 $mg/m^3$ total respirable |
| | | | |

## 8.2 Exposure Controls

### 8.2.1 Engineering Controls

Provide ventilation to maintain the ambient workplace atmosphere below the occupational exposure limit(s). Use

general and local exhaust ventilation and dust collection systems as necessary to minimize exposure.

### 8.2.2 Personal Protective Equipment (PPE)

| | |
|---|---|
| **Respiratory protection:** | Wear a NIOSH approved particulate respirator if exposure to airborne particulates is unavoidable and where occupational exposure limits may be exceeded. |
| **Eye and face protection:** | If eye contact is possible, wear protective glasses with side shields. Avoid contact lenses. |
| **Hand and skin protection:** | Wear plastic or rubber gloves if skin irritation occurs. Wash hands with soap and water after contact with material. |

## Section 9
## Physical and Chemical Properties

### 9.1 Information on Basic Physical and Chemical Properties

| Property: Value | Property: Value |
|---|---|
| **Appearance (physical state, color, etc.):** Solid powder or granules, white. | **Upper/lower flammability or explosive limits:** Not applicable |
| **Odor:** Odorless | **Vapor Pressure (Pa):** Not applicable |
| **Odor threshold:** N/A | **Vapor Density:** Not applicable |
| **pH:** 6.5 – 7.5 as 10% slurry in distilled water. | **Specific gravity or relative density:** 2.35 [Ref Std water=1.0] |
| **Melting point/freezing point (°C):** Not determined. | **Water Solubility:** Negligible |
| **Initial boiling point and boiling range (°C):** Not determined. | **Partition coefficient: n-octane/water:** Not applicable |
| **Flash point (°C):** Not applicable | **Auto ignition temperature (°C):** Not applicable |
| **Evaporation rate:** Not applicable | **Decomposition temperature (°C):** Not determined |
| **Flammability (solid, gas):** Not combustible | **Viscosity:** Not applicable |
| **Bulk Density:** Approximately 0.10 – 0.13 g/cc | |

## Section 10
## Stability and Reactivity

| | |
|---|---|
| **10.1 Reactivity:** | Yes, with hydrofluoric acid |
| **10.2 Chemical stability:** | The material is stable under normal use conditions. |
| **10.3 Possibility of hazardous reactions:** | Toxic silicon tetrafluoride gas will result with contact with hydrofluoric acid. |
| **10.4 Conditions to avoid:** | Product can become airborne in moderate winds. Dry material should be stored in closed containers. |
| **10.5 Incompatible materials:** | Hydrofluoric acid (see above) |
| **10. 6 Hazardous decomposition products:** | (see above) |

## Section 11
## Toxicological Information

### 11.1 Information on Toxicological Effects

| Endpoint | Data |
|---|---|
| Eye damage/irritation | Slight, but reversible eye irritation |
| Respiratory/skin sensitization | Not a respiratory or dermal sensitizer |
| Germ cell mutagenicity | No data available. |
| Carcinogenicity | Contains < 0.1% crystalline silica, and low percentages of particles of respirable size, hence present very low risk. |
| IARC | Not reviewed. |
| Reproductive toxicity | No data available. |
| Teratogenicity | Not established. |
| Embryotoxicity | No data available. |
| Mutagenicity | No data available. |

## Section 12
## Ecological Information

Aquatic Toxicity: Low hazard for usual industrial or commercial handling. Approved for use in soils.

## Section 13
## Disposal Considerations

See Sections 7 and 8 above for safe handling and use, including appropriate hygienic practices.

Dispose of all waste product and containers in accordance with federal, state and local regulations.

## Section 14
## Transport Information

| | | |
|---|---|---|
| Special shipping information: | DOT | No special requirements. |
| | IMO | Non-hazardous |
| | ICAO | Non-hazardous |

## Section 15
## Regulatory Information

### 15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Mixture

- **TSCA:** Included as a naturally occurring material.
- **WHMIS:** D2B (Toxic)
- **OSHA:** Label as required by Hazard Communication Standard 29 CFR 1910.1200 (f) and applicable state and local laws and regulations.
- **CANADA DSL:** Included or exempt.
- **EUROPE:** Exempt under REACH as a naturally occurring mineral, not chemically modified. Status confirmed in Annex V Guidance Document Version 1.1, November 2012
- **CERCLA:** No CERCLA reportable quantity has been established for this material.
- **SARA Title III:** Not an extremely hazardous substance under 320. Not a toxic chemical under 313.

## Section 16
## Other Information, Including Date of Preparation or Last Revision

| Hazardous Materials Identification System (HMIS)<br>Degree of hazard (0= low, 4 = extreme) | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Health:** | 1 | **Flammability:** | **0** | **Reactivity:** | **0** | **Personal protection:** | |

**DISCLAIMER:**

*This SDS has been prepared in accordance with the Hazard Communication Rule 29 CFR 1910.1200. Information herein is based on data considered to be accurate as of date prepared. No warranty or representation, express or implied, is made as to the accuracy or completeness of this data and safety information. No responsibility can be assumed for any damage or injury resulting from abnormal use, failure to adhere to recommended practices, or from any hazards inherent in the nature of the product.*