SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier
Product Name
SPHERIGLASS® SOLID GLASS SPHERES
Chemical Name
Glass, oxide, chemicals
CAS No.
65997-17-3

1.2 Relevant identified uses of the substance or mixture and uses advised against
Identified Use(s)
Used as functional fillers and additives in various industrial applications, plastics, paints & coatings, composites and thermoset systems.
Uses Advised Against
Not known.

1.3 Details of the supplier of the safety data sheet
Manufacturer
Company Identification
Potters Industries LLC
Address of Manufacturer
P. O. Box 841
Valley Forge, PA
USA
Postal code
19482
Telephone:
800-552-3237
E-mail
sds@pottersindustries.com

Supplier
Company Identification
Potters Industries LLC
Address of Supplier
P. O. Box 841
Valley Forge, PA
USA
Postal code
19482
Telephone:
800-552-3237
E-mail
sds@pottersindustries.com

1.4 Emergency telephone number
Emergency Phone No.
800-552-3237/ 800-424-9300 (USA)
Contact
Company/ChemTrec

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
US CFR 1910.1200
Not classified as dangerous for supply/use.

2.2 Label elements
According to US CFR 1910.1200
Product Name
SPHERIGLASS® SOLID GLASS SPHERES
Hazard Pictogram(s)
None.
Signal Word(s)
None.
Hazard Statement(s)
None.
SPHERIGLASS® SOLID GLASS SPHERES

Precautionary Statement(s) None.

2.3 Other hazards Dust may have irritant effect on skin, eyes and air passages.

2.4 Additional Information None.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

<table>
<thead>
<tr>
<th>HAZARDOUS INGREDIENT(S)</th>
<th>CAS No.</th>
<th>%W/W</th>
<th>Hazard Statement(s)</th>
<th>Hazard Pictogram(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glass, oxide, chemicals</td>
<td>65997-17-3</td>
<td>100</td>
<td>Not classified</td>
<td>None</td>
</tr>
</tbody>
</table>

3.2 Mixtures Not applicable.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

Skin Contact Wash skin with water.

Eye Contact Flush eyes with water for at least 15 minutes.

Ingestion Do not induce vomiting. Get immediate medical advice/attention.

4.2 Most important symptoms and effects, both acute and delayed Dust may cause irritation. Dust may cause discomfort and mild irritation.

4.3 Indication of any immediate medical attention and special treatment needed Unlikely to be required but if necessary treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing media As appropriate for surrounding fire.

Unsuitable extinguishing media None.

5.2 Special hazards arising from the substance or mixture Non-combustible. Excessive heating (>500°C) may cause melting or fusion of the substance.

5.3 Advice for firefighters Fire fighters should wear complete protective clothing including self-contained breathing apparatus.
6.1 Personal precautions, protective equipment and emergency procedures
Wear suitable protective clothing. Wear eye/face protection.

6.2 Environmental precautions
Do not release large quantities into the surface water or into drains.

6.3 Methods and material for containment and cleaning up
Caution - spillages may be slippery. Sweep spilled substances into containers if appropriate moisten first to prevent dusting. Use vacuum equipment for collecting spilt materials, where practicable.

6.4 Reference to other sections
See Also Section 8, 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling
Caution - spillages may be slippery. General hygiene measures for the handling of chemicals are applicable. Avoid generation of dust. Wash hands and exposed skin after use. Do not eat, drink or smoke at the work place.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed and dry.

Storage temperature
Ambient.

Storage life
Stable under normal conditions.

Incompatible materials
Acids.

7.3 Specific end use(s)
Used as functional fillers and additives in various industrial applications, plastics, paints & coatings, composites and thermoset systems.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters
8.1.1 Occupational Exposure Limits

<table>
<thead>
<tr>
<th>SUBSTANCE</th>
<th>CAS No.</th>
<th>LTEL (8 hr TWA ppm)</th>
<th>LTEL (8 hr TWA mg/m³)</th>
<th>STEL (ppm)</th>
<th>STEL (mg/m³)</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalable particles</td>
<td>G000-00-01</td>
<td>10</td>
<td></td>
<td></td>
<td></td>
<td>ACGIH TLV</td>
</tr>
<tr>
<td>Respirable particles</td>
<td>G000-00-01</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td>ACGIH TLV</td>
</tr>
</tbody>
</table>

Remark Notes
ACGIH TLV The American Conference of Governmental Industrial Hygienists (ACGIH®) Threshold Limit Values (TLVs®), 2021

8.2 Exposure controls
SPHERIGLASS® SOLID GLASS SPHERES

8.2.1. Appropriate engineering controls
Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (dilution and local exhaust), and control of process conditions.

8.2.2. Personal protection equipment

- **Eye Protection**
  Handling of larger amounts: Wear eye protection with side protection (EN166).

- **Skin protection**
  Wear suitable gloves if prolonged skin contact is likely.

- **Respiratory protection**
  Wear suitable respiratory protective equipment if exposure to high levels of material are likely.

- **Thermal hazards**
  Not applicable.

8.2.3. Environmental Exposure Controls
Do not release large quantities into the surface water or into drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Powder</td>
</tr>
<tr>
<td>Colour</td>
<td>White</td>
</tr>
<tr>
<td>Odour</td>
<td>Odourless</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>Not known</td>
</tr>
<tr>
<td>pH</td>
<td>Not known</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>730°C /1346°F</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>Not known</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Non-flammable</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>Not known</td>
</tr>
<tr>
<td>Vapour density</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Density (g/ml)</td>
<td>Not known</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not known</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Solubility (Water) : Insoluble.</td>
</tr>
<tr>
<td></td>
<td>Solubility (Other) : Not known.</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>Not known</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Decomposition Temperature (°C)</td>
<td>Not known</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>
SPHERIGLASS® SOLID GLASS SPHERES

9.2 Other information

None.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Stable under normal conditions.

10.2 Chemical Stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose.

10.4 Conditions to avoid

None anticipated.

10.5 Incompatible materials

Acids.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity - Ingestion

Not classified.

Low oral toxicity.

By analogy with similar materials:

LD50 (oral,rat) mg/kg: 5000

Acute toxicity - Skin Contact

Not classified.

Low acute toxicity.

Acute toxicity - Inhalation

Not classified.

Low acute toxicity. Dust : Irritant effect on air passages.

Skin corrosion/irritation

Not classified.

Dust may cause irritation.

Serious eye damage/irritation

Not classified.

Dust may cause irritation.

Skin sensitization data

Not classified.

It is not a skin sensitiser.

Respiratory sensitization data

Not classified.

Germ cell mutagenicity

Not classified.

There is no evidence of mutagenic potential.

Carcinogenicity

Not classified.
SPHERIGLASS® SOLID GLASS SPHERES

Reproductive toxicity
- Not classified.
- No evidence of reproductive effects.

Lactation
- Not classified.

STOT - single exposure
- Not classified.
- None anticipated.

STOT - repeated exposure
- Not classified.
- None anticipated.

Aspiration hazard
- Not classified.

11.2 Other information
- Not known.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity - Aquatic invertebrates
- Low toxicity to invertebrates.

Toxicity - Fish
- Low toxicity to fish.

Toxicity - Algae
- Low toxicity to algae.

Toxicity - Sediment Compartment
- Not classified.

Toxicity - Terrestrial Compartment
- Not classified.

12.2 Persistence and degradability
- The methods for determining the biological degradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential
- No information available.

12.4 Mobility in soil
- Insoluble in water. The substance is predicted to have low mobility in soil.

12.5 Other adverse effects
- Not known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
- Product as supplied: The waste is considered to be non hazardous.
- Dispose at suitable refuse site.

13.2 Additional Information
- Disposal should be in accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION

Not classified as hazardous for transport.
SPHERIGLASS® SOLID GLASS SPHERES

14.1 UN number  
Not applicable

14.2 UN proper shipping name  
Not applicable

14.3 Transport hazard class(es)  
Not applicable

14.4 Packing group  
Not applicable

14.5 Environmental hazards  
Not classified as a Marine Pollutant.

14.6 Special precautions for user  
Not known

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code  
Not known

SECTION 15: REGULATORY INFORMATION

15.1 US Federal Regulations  
Toxic and hazardous substances (29 CFR 1910; Subpart Z)  
Not listed

National emission standards for hazardous air pollutants (40 CFR 61.01)  
Not listed

SARA Title III Section 313  
Not listed

TSCA (Toxic Substance Control Act)  
Listed: 65997-17-3 (Active)

CAA 602 - Ozone Depleting Substances (ODS)  
Not listed

15.2 US State Regulations  
State Right to Know Lists

Proposition 65 (California)  
This product can expose you to chemicals including arsenic and lead, which are known to the State of California to cause cancer and lead, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to https://www.P65Warnings.ca.gov.

Minnesota  
Not listed

New Jersey  
Not listed

Pennsylvania  
Not listed

Rhode Island  
Not listed

15.3 Other  
OSPAR List of Chemicals for Priority Action  
Not listed

OSHA (List of Highly Hazardous Chemicals, Toxics and Reactives)  
Not listed

NTP (National Toxicology Program)  
Not listed

IARC (International Agency for Research on Cancer)  
Not listed
SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1 - 16

LEGEND

Hazard Pictogram(s) None.

Precautionary Statement(s) None.

Acronyms
ATE: Acute Toxicity Estimate
CAS: Chemical Abstracts Service
LTE: Long term exposure limit
STEL: Short term exposure limit
STOT: Specific Target Organ Toxicity

Key literature references and sources for data used to compile the SDS
US CFR 1910.1200

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