

Safety Data Sheet

SECTION 1: Identification

1.1. Product identifier

Hollow Alumina-Silica Microspheres GS100

1.2. Recommended use

Recommended use

Additive for Paint, Coating Applications, fine particle size, high-strength microspheres, used to reduce VOC levels, increase filler loadings, improve flowability of formulations.

1.3. Supplier's details

MANUFACTURER: SphereTek Limited

ADDRESS: SphereTek factory, 37, Daqing Street, hi-tech development zone, Tangshan, 063000, Hebei, China

1.4. Emergency telephone number

+86 186 3153 1978

SECTION 2: Hazard identification

2.1. Hazard classification

Not classified as hazardous.

2.2. Label elements

Signal word

Not applicable.

Symbols

Not applicable.

Pictograms

Not applicable.

2.3. Hazards not otherwise classified

None.

SECTION 3: Composition/information on ingredients

Ingredient C.A.S. No. % by Wt

Glass Microspheres 65997-17-3 100

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 easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.

If Swallowed:

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 suitable 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

Evacuate area. Ventilate the area with fresh air. Observe precautions from other sections.

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. Use wet sweeping compound or water to avoid dusting. Sweep up. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

For industrial or professional use only. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

7.2. Conditions for safe storage including any incompatibilities

No special storage requirements.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

No occupational exposure limit values exist for any of the components listed in Section 3 of this SDS.

8.2. Exposure controls

8.2.1. 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.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Eye protection is recommended:

Safety Glasses with side shields

Skin/hand protection

No chemical protective gloves are required.

Respiratory protection

Use masks to prevent from inhaling the dust air.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

General Physical Form: Hollow

Specific Physical Form: Powder (5 to 100 microns)

Odor, Color, Grade: Gray/Light gray odorless powder

Odor threshold *Not Applicable*

pH 7-9 [*Details:* 1% aqueous solution]

Melting point 700 °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*

Bulk Density 0.40 g/cm³

Specific Gravity 0.75 [*Ref Std:* WATER=1]

Solubility in Water Negligible

Solubility- non-water *Not Applicable*

Partition coefficient: n-octanol/ water *Not Applicable*

Autoignition temperature *Not Applicable*

Decomposition temperature *Not Applicable*

Viscosity *Not Applicable*

Volatile Organic Compounds *Not Applicable*

Percent volatile *Not Applicable*

VOC Less H₂O & Exempt Solvents *Not Applicable*

SECTION 10: Stability and reactivity

10.1. Reactivity

Non reactive under normal use conditions.

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

No hazardous reactions.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

Substance Condition

None known. At Elevated Temperatures

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

Signs and Symptoms of Exposure

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

Overall product Ingestion No data available; calculated ATE 2,000 - 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.

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.

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

Non Known

Chemical fate information

Non Known

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

SECTION 15: Regulatory information

15.1. Safety, health and environmental Regulations / legislation specific for the substance or mixture Additional regulations

Specific national regulations must be considered.

Waste hazards class

Non-hazardous to water

SECTION 16: Other information

NFPA Hazard Classification

Health: 1 Flammability: 0 Instability: 0 Special Hazards: None

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