

Safety Data Sheet

Copyright, 2018, SphereTek Ltd.

All rights reserved.

Copying and/or downloading of this information for the purpose of properly utilizing Spheretek products is allowed provided that:

- (1) the information is copied in full with no changes unless prior written agreement is obtained from Spheretek Ltd, and
- (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Hollow Ceramic Microspheres or Cenospheres which covers grades ES300/600, 150/355, QK500, QK300, 125/250, QK150, QK100, QK75

MANUFACTURER: Spheretek Ltd

ADDRESS: Spheretek Production base
37, Daqing Ave. Hi-tech Industrial park, Tangshan 063000, China

PHONE: +86 18631531978

Issue Date: 09/4/2018

Date updated: 07/4/2018

Document No: 18-hw0406

Product Use:

Intended Use: Lightweight filler for Cement, Paint, Coating and other Applications

SECTION 2: INGREDIENTS

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

Ceramic Microspheres 66402-68-4

SECTION 3: HAZARDS IDENTIFICATION

3.1 EMERGENCY OVERVIEW

Specific Physical Form: Fine Powder (ranges from 10 microns to 600 microns)

Odor, Color, Grade: White to gray odorless powder

General Physical Form: Hollow

Immediate health, physical, and environmental hazards:

3.2 POTENTIAL HEALTH EFFECTS

Eye Contact:

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

Skin Contact:

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

Inhalation:

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

and throat pain.

Ingestion:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, nausea, diarrhea and vomiting.

SECTION 4: FIRST AID MEASURES

4.1 FIRST AID PROCEDURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

Eye Contact: Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

Skin Contact: Wash affected area with soap and water. If signs/symptoms develop, get medical attention.

Inhalation: Remove person to fresh air. If signs/symptoms develop, get medical attention.

If Swallowed: Do not induce vomiting. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get immediate medical attention.

SECTION 5: FIRE FIGHTING MEASURES

5.1 FLAMMABLE PROPERTIES

Autoignition temperature Not Applicable
Flash Point Not Applicable
Flammable Limits - LEL Not Applicable
Flammable Limits - UEL Not Applicable
OSHA Flammability Classification: Not Applicable

5.2 EXTINGUISHING MEDIA

Non-combustible. Choose material suitable for surrounding fire.

5.3 PROTECTION OF FIRE FIGHTERS

Special Fire Fighting Procedures: Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus.
Unusual Fire and Explosion Hazards: No unusual fire or explosion hazards are anticipated.
Note: See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition information.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: Observe precautions from other sections. Call SphereTek- HELPS line (+86-315-3215130) for more information on handling and managing the spill. Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Ventilate the area with fresh air. Collect as much of the spilled material as possible. Use wet sweeping compound or water to avoid dusting. Sweep up. Collect the resulting residue containing solution. Place in a closed container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.
In the event of a release of this material, the user should determine if the release qualifies as reportable according to local, state, and federal regulations.

SECTION 7: HANDLING AND STORAGE

7.1 HANDLING

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. For industrial or professional use only. Avoid eye contact with dust or airborne particles.

7.2 STORAGE

Store under dry, cool under-roof conditions.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 ENGINEERING CONTROLS

Provide local exhaust ventilation at transfer points. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits and/or control dust, fume, or airborne particles. If ventilation is not adequate, use respiratory protection equipment.

8.2 PERSONAL PROTECTIVE EQUIPMENT

8.2.1 Eye/Face Protection

Avoid eye contact.

The following eye protection(s) are recommended: Filtered dust masks.

8.2.2 Skin Protection

Avoid prolonged or repeated skin contact.

Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials.

8.2.3 Respiratory Protection

Avoid breathing of dust. In most cases wear filtered dust masks.

8.2.4 Prevention of Swallowing

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

8.3 EXPOSURE GUIDELINES

None Established

EXPOSURE LIMITS FOR PARTICULATES:

ACGIH TLV-TWA PARTICULATES (INSOLUBLE) NOT OTHERWISE CLASSIFIED (PNOC)

10 mg/m³, inhalable particulate

3 mg/m³, respirable fraction

OSHA PEL PARTICULATES NOT OTHERWISE REGULATED (PNOR)

15 mg/m³, total dust
5 mg/m³, respirable fraction

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Specific Physical Form: Fine Powder (ranges from 10 to 600 microns)

Odor, Color, Grade: White to gray odorless powder

General Physical Form: Hollow

Autoignition temperature Not Applicable

Flash Point Not Applicable

Flammable Limits - LEL Not Applicable

Flammable Limits - UEL Not Applicable

Boiling point Not Applicable

Density 2.49 g/cc [ground into solid powder]

Vapor Density Not Applicable

Vapor Pressure Not Applicable

Specific Gravity 0.45 to 1.5 g/cc [Ref Std: WATER=1]

pH 7 – 7.5

Melting point 1,750 °C

Solubility in Water Negligible

Bulk density 17 - 31 lb/ft³ (0.28 to 0.5g/cc)

Evaporation rate Not Applicable

Volatile Organic Compounds Not Applicable

Percent volatile Not Applicable

VOC Less H₂O & Exempt Solvents Not Applicable

Viscosity Not Applicable

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable.

Materials and Conditions to Avoid: None known

Hazardous Polymerization: Hazardous polymerization will not occur.

Hazardous Decomposition or By-Products

Substance Condition

None known. At Elevated Temperatures

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicity Data:

Acute Oral Toxicity LD₅₀ (rat): >5000 mg/kg (estimated)

Eye Irritation: May cause physical eye irritation.

Skin Irritation: May cause physical skin irritation.

Oral Toxicity: When a similar product was tested for acute oral toxicity to rats at a dosage level of 500 mg/kg body weight, all animals survived and gained weight.

Respiratory Toxicity: No appreciable increase in fibrous tissue was present.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

Not determined.

CHEMICAL FATE INFORMATION

Not determined.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method: Reclaim if feasible. For quantities <100 lbs. (50kg): dispose of waste product in a sanitary landfill. As a disposal alternative, dispose of waste product in a permitted hazardous waste facility.

EPA Hazardous Waste Number (RCRA): Not regulated

Since regulations vary, consult applicable regulations or authorities before disposal.

SECTION 14: TRANSPORT INFORMATION

ROAD & RAIL: Not defined as a Dangerous Goods.

SEA: Not a Dangerous Good according to the International Maritime Dangerous Goods Code (IMDG Code).

AIR: Not a Dangerous Good according to the International Air Transport Association (IATA) Dangerous Goods Regulations.

SECTION 15: REGULATORY INFORMATION

Contact SphereTek for more information.

311/312 Hazard Categories:

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - No

STATE REGULATIONS

Contact SphereTek for more information.

CHEMICAL INVENTORIES

Contact SphereTek for more information.

INTERNATIONAL REGULATIONS

Contact SphereTek for more information.

SECTION 16: OTHER INFORMATION

Hazard Classification

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

Hazard Classification

Health: 1 Flammability: 0 Reactivity: 0 Protection: X - See PPE section.

DISCLAIMER: The information in this Material Safety Data Sheet (MSDS) is believed to be correct as of the date issued. SphereTek 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 SphereTek product is good for a particular formulation and suitable for user's method of application. Given the variety of factors that can affect the use and application of a SphereTek product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the SphereTek product to determine whether or not it is good for a particular formulation or suitable for user's method of application.

In addition, information obtained from a database may not be as current as the information in the MSDS available directly from SphereTek.