

MATERIAL SAFETY DATA SHEET

Cenospheres, All Grades

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Cenospheres, All Grades

Other Name: Floating Microspheres, Ceramic Microspheres, Hollow Microspheres.

COMPANY INFORMATION:

Manufacturer: Langfang Olan Glass Beads Co., Ltd.

Address: 202-6-6, City Garden, Langfang, Hebei, China

In case of emergency call: 0086-316-2013621

Fax: 0086-316-2013621

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The MSDS is prepared by the Laboratory of Langfang Olan Glass Beads Co., Ltd.

Approved date: May 18, 2009

2. COMPOSITION AND INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	RANGE IN %
Ceramic Microspheres	66402-68-4 97	97
Quartz Silica	14808-60-7 3	3

3. HAZARD IDENTIFICATION

APPEARANCE: Grey to white powder

ODOR: None, odorless

WARNING STATEMENT: Grinding or crushing cenospheres can cause crystalline silica particles to form. Exposure to these particles can cause lung cancer.

POTENTIAL HEALTH EFFECTS

EYE: Common irritations include tearing and marked redness. Continued exposure can lead to corneal injuries.

SKIN: Brief contact may cause slight irritation including itching and redness.

INHALATION: Excessive concentrations of a nuisance dust may cause coughing, sneezing, nasal irritation, and headaches. Over exposure may cause severe respiratory irritation and trouble breathing.

INGESTION: Swallowing may result in gastrointestinal irritation.

SYSTEMATIC (OTHER TARGET ORGAN) EFFECTS: May cause target organ effects.

CANCER INFORMATION: Contains a chemical which may cause cancer.

Quartz Silica, CAS# 14808-60-7

4. FIRST AID MEASURES

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EYES: Immediately flush with large amounts of running water for 10-15 minutes. If discomfort persists, seek medical attention.

SKIN: Wash skin with plenty of soap and water for several minutes. If skin irritation persists, seek medical attention.

INHALATION: Remove person to fresh air. Seek medical attention for any breathing difficulty.

INGESTION: If swallowed, give water to drink and seek medical advice. Do not induce vomiting.

5. FIRE FIGHTING MEASURES

FIRE: Not considered a fire hazard, non-combustible

FLASH POINT: Not Applicable

FLAMMABILITY LIMITS: Not applicable

EXTINGUISHING MEDIA: This material does not burn. If exposed to fire from another source, use a suitable extinguishing agent for that fire.

SPECIAL EQUIPMENT FOR FIREFIGHTERS: Wear full protective clothing and a NIOSH approved positive pressure breathing apparatus with a full face piece.

6. ACCIDENTAL RELEASE MEASURES

PROCEDURE FOR BREAKAGE OR LEAKAGE: Ventilate the area. Avoid breathing any dust. Pressure demand air respirators should always be worn. Other protective equipment appropriate for the hazard should be utilized. This includes wearing gloves, goggles, and protective clothing. Sweep up any spillage and reclaim for disposal.

7. HANDLING AND STORAGE

HANDLING: Care should be taken to avoid creating dust. Avoid eye contact and inhalation of airborne product.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.

PERSONAL PROTECTIVE EQUIPMENT

EYES/FACE: Avoid eye contact. Wear chemical safety goggles.

SKIN: Avoid skin contact. Gloves and clothing such as apron, overalls, long sleeve shirt, should be worn to prevent exposure.

RESPIRATORY PROTECTION: Airborne concentrations should be kept to the lowest levels possible. Atmospheric levels should be maintained below the exposure guideline. A NIOSH approved respirator should be worn at all times.

EXPOSURE GUIDELINE: Quartz Silica is 0.1 mg/m³.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Grey to white powder
ODOR: Odorless
BOILING POINT: Not applicable
MELTING POINT: 1,300-1700 °C
SPECIFIC GRAVITY (WATER = 1): 0.30-0.95
VAPOR PRESUURE: Not applicable
VISCOSITY: Not applicable
VOC CONTENT: Not applicable
SOLUABILITY IN WATER: None

10. STABILITY AND REACTIVITY

STABILITY: Stable
CONDITIONS TO AVOID: None known
HAZARDOUS POLYMERIZATION: Will not occur
HAZARDOUS DECOMPOSITION: Does not decompose

11. TOXICOLOGICAL INFORMATION

Not Determined

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE: No information found
ENVIRONMENTAL TOXICITY: No information found

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS: Whatever cannot be saved for recycling or recovery should be managed in an appropriate and approved waste disposal facility.

14. TRANSPORTATION INFORMATION

DOT: Not regulated

15. REGULATORY INFORMATION

Chemical Hazards Control Regulation (Issued by China Government at March 15, 2002). It is not a regulated hazardous material according to Hazardous Chemical Classification and Identification (GB13690-92).

Hazard Symbols: No significant hazard.

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Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

1. The information on this data sheet is believed to be accurate and it is the best information available to Langfang Olan Glass Beads Co., Ltd.

2. This document is intended only to be a guide to the appropriate precaution for handling, using, storing, transporting and disposing of Cenospheres.

3. The information in this document only applies to Cenospheres. It does not apply to any mixture with other substances or the produce of the mixing unless it is noted in hereby.

Legal Disclaimer: The information contained in this safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and it is not to be considered a warranty or quality specification.

The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text.