MATERIAL SAFETY DATA SHEET

Cenospheres, All Grades

Qingdao Eastchem Inc

MSDS Ref Num: 1150 Date Approved: 05/07/2011 Revision No: 3

This document has been prepared to meet the requirements of the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200. Please read this MSDS and understand it before handling or disposing of the product.

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Cenospheres, All Grades

COMPANY INFORMATION: Qingdao Eastchem Inc 21CE, B Tower, Shenye Plaza, No.9 Shandong Road, Qingdao, 266071, China

2. COMPOSITION AND INFORMATION ON INGREDIENTS

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

Hazardous Material Information System (HMIS) H1 F0 R0

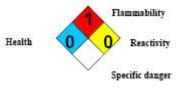
 Health
 1

 Fire
 0

 Reactivity
 0

 Personal protection
 ()

National Fire and Protection Association (NFPA) H1 F0 R0



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

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

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

FEDERAL REGULATIONS

SARAH 313: To the best of our knowledge, this product contains no chemical subject to SARA Title III Section 313 supplier notification requirements.

CERCLA: To the best of our knowledge, this product contains no chemical subject to reporting under CERCLA.

TSCA: This product, or its components, are listed on, or are exempt from the Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

STATE REGULATIONS: This product in natural form is not known to contain any substances subject to the disclosure requirements of CA, CT, IL, MA, NJ, or PA.

16. OTHER INFORMATION

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REVISION DATE: Not Applicable