



ZEEOSPHERES CERAMICS, LLC

Zeeospheres Ceramic Microspheres

Material Safety Data Sheet

3/12/2010

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SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Zeeospheres Ceramic Microspheres™

MANUFACTURER: Zeeospheres Ceramics, LLC

ADDRESS: 129 Valentine Drive
Lockport, LA 70374

Issue Date: 3/12/2010

Intended Use: Additive for Paints, Coatings, Plastics, and other polymer-based compounded products

SECTION 2: INGREDIENTS

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>% by Wt</u>
Ceramic Microspheres	66402-68-4	100

SECTION 3: HAZARDS IDENTIFICATION

3.1 EMERGENCY OVERVIEW

Specific Physical Form: Fine Powder (less than 200 microns diameter)

Odor, Color, Grade: Gray odorless powder

General Physical Form: Solid

Immediate health, physical, and environmental hazards:

3.2 POTENTIAL HEALTH EFFECTS

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

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

Inhalation: 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, stomach upset, nausea, vomiting and diarrhea.

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 unless instructed to do so by medical personnel. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get medical attention.

SECTION 5: FIRE FIGHTING MEASURES**5.1 FLAMMABLE PROPERTIES**

Autoignition temperature	<i>Not Applicable</i>
Flash Point	<i>Not Applicable</i>
Flammable Limits - LEL	<i>Not Applicable</i>
Flammable Limits - UEL	<i>Not Applicable</i>
OSHA Flammability Classification	<i>Not Applicable</i>

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 (SCBA).

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 ZEEOSPHERES CERAMICS, LLC ~ HELP line (985)-532-2551 X-10 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 normal warehouse 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 (PPE)**8.2.1 Eye/Face Protection**

Avoid eye contact.

The following eye protection(s) are recommended: Indirect Vented Goggles.

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. Gloves made from the following material(s) are recommended: Neoprene, Nitrile Rubber.

8.2.3 Respiratory Protection

Avoid breathing dust.

Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: Half facepiece or fullface air-purifying respirator with N95 particulate filters. Consult the current Zeeospheres Ceramics, LLC Respiratory Selection Guide for additional information or call (985) 532-2551 X-10 for ZEEOSPHERES CERAMICS, LLC technical assistance.

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 (less than 200 microns diameter)
Odor, Color, Grade:	Gray odorless powder
General Physical Form:	Solid
Autoignition temperature	<i>Not Applicable</i>
Flash Point	<i>Not Applicable</i>
Flammable Limits - LEL	<i>Not Applicable</i>
Flammable Limits - UEL	<i>Not Applicable</i>
Boiling point	<i>Not Applicable</i>
Density	2.1 - 2.5 g/cm ³
Vapor Density	<i>Not Applicable</i>
Vapor Pressure	<i>Not Applicable</i>
Specific Gravity	2.1 - 2.5 g.cm ³
pH	3 - 10 [Details: 1% aqueous solution]
Melting point	<i>Not Applicable</i>
Solubility in Water	Negligible
Bulk density	60 - 80 lb/ft ³
Evaporation rate	Not Applicable
Volatile Organic Compounds	Not Applicable
Percent volatile	Not Applicable
VOC Less H ₂ O & Exempt Solvents	Not Applicable
Viscosity	Not Applicable

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable

Materials and Conditions to Avoid: Not known

Hazardous Polymerization: Hazardous polymerization will not occur.

Hazardous Decomposition or By-Products:

<u>Substance</u>	<u>Condition</u>
None Known	No Specified

SECTION 11: TOXICOLOGICAL INFORMATION

Please contact the address listed on the first page of the MSDS for Toxicological Information on this material and/or its components.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

Not Determined.

CHEMICAL FATE INFORMATION

Not Determined.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method: Reclaim if feasible. 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

Zeeospheres Ceramics G & N Series product is a Class 50 for transportaton.

Not regulated per U.S. DOT, IATA or IMO.

*These transportation classifications are provided as a customer service. As the shipper YOU remain responsible for complying with all applicable laws and regulations, including proper transportation classification and packaging . ZEEOSPHERES CERAMICS, LLC's transportation classifications are based on product formulations, packaging, ZEEOSPHERES CERAMICS, LLC's policies and ZEEOSPHERES CERAMICS, LLC's understanding of applicable current regulations. ZEEOSPHERES CERAMICS, LLC does not guarantee the accuracy of this classification information. This information applies only to transportation classification and **not the packaging, labeling, or marking requirements**. The original ZEEOSPHERES CERAMICS, LLC package is certified for U.S. ground shipment only. If you are shipping by air or ocean, the package may not meet applicable regulatory requirements.*

SECTION 15: REGULATORY INFORMATION**US FEDERAL REGULATIONS**

Contact Zeeospheres Ceramics, LLC 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 Zeeospheres Ceramics, LLC for more information.

CHEMICAL INVENTORIES

This product is an article as devined by TSCA regulations, and is exempt from TSCA Inventory listing requirements.

Contact Zeeospheres Ceramics, LLC for more information.

Additional Information: this product is an article as defined by EINECS CDSL, MITI, KECI, AICS, PICCS and CICS regulations, and is exempt from chemical inventory listing requirements. Korea and China also requires product registration.

INTERNATIONAL REGULATIONS

Contact Zeeospheres Ceramics, LLC for more information.

This MSDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16: OTHER INFORMATION**NFPA Hazard Classification**

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

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

HMIS Hazard Classification

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

Hazardous Material Identification Systems (HMIS[r]) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS(r) ratings are to be used with a fully implemented HMIS(r) program. HMIS(r) is a registered mark of the National Paint and Coatings Association (NPCA).

Revision Changes:

Heading: Product Name was modified.

Section 1: Product name was modified.

Section 3.1: Emergency Overview was modified.

Section 4.1: First Aid Procedures was modified.

Section 6: Accidental Release Measure was modified.

Section 8:2.3: Respiratory Protection was modified.

Section 9: Physical and Chemical Properties was modified.

Section 10: Stability and Reactivity was modified.

Section 13: Disposal Considerations was modified.

Section 14: Transportation Information was modified.

Section 15 Regulatory Information was modified.

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