



Mia 64 Ceramic Spheres				
Section 1 Identification				
Relevant identified us Identified uses: Details of the supplier Freeman Manuf		HMIS H 1 F 0 R 0 PPE Sec. 8		
24 Hour Emergency Pl	none Number: (800) 424-9300 (CHEMTREC)			
	Section 2 Hazards Identification			
GHS Label elements				
Signal word	Danger			
-	ige to lungs through prolonged or repeated exposure if inhaled. ratory irritation.			
-	ust. gloves/eye protection/face protection.			
Do not eat, drinl	in well ventilated area. x, or smoke when using this product.			
Get medical adv If on skin: Wash If skin irritation If in eyes: Rinse Remove contact	we to fresh air and keep comfortable for breathing. ice/attention if you feel unwell. with plenty of soap and water. or rash occurs: Get medical advice/attention. continuously with water for at least 15 minutes. lenses, if present and easy to do. persists: Get medical advice/attention.			

If eye irritation persists: Get medical advice/attention.

Storage

Store in a well-ventilated place.



Section 2 Hazards Identification continued

Disposal

Dispose of contents and container to an appropriate waste site in accordance with local and national regulations.

Hazards not otherwise classified (HNOC) or not covered by GHS

None known

Section 3 Composition/Information on Ingredients

Ingredient Name	CAS Number	Weight Concentration %
Fly ash; Cenospheres	68131-74-8	>99.0
Crystalline Silica (Quartz)	14808-60-7	<1.5
Calcium oxide	1305-78-8	<1.0
Potassium oxide	12136-45-7	<1.0

Section 4 First Aid Measures

Description of first aid measures

If inhaled

Move person into fresh air. Get medical attention if respiratory symptoms persist.

In case of skin contact

Wash off with soap and plenty of water. Get medical attention if symptoms occur.

In case of eye contact

Flush eyes with water for at least 15 minutes. Remove contact lenses if present and easy to do. Get medical attention if irritation occurs or persists.

If swallowed

No specific first aid measures are required.

Most important symptoms and effects, both acute and delayed

Acute effects: Direct exposure may cause respiratory irritation, eye irritation and skin irritation. The product dust can dry and irritate the skin and cause dermatitis and can irritate eyes and skin through mechanical abrasion.

Chronic effects: Chronic exposure may cause lung damage from repeated exposure. Chronic inhalation of dusts containing respirable crystalline silica may result in silicosis.

Indication of any immediate medical attention and special treatment needed

Seek first aid or call a doctor or Poison Control Center if contact with eyes occurs and irritation remains after rinsing.

Section 5 Fire-Fighting Measures

Suitable extinguishing media

Product is not flammable. Use extinguishing media appropriate for surrounding fire.

Special hazards arising from the substance or mixture

None known.

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.



Section 6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Avoid breathing dust. For personal protection see section 8.

Environmental precautions

Do not let product enter drains or waterways.

Methods and materials for containment and cleaning up

Do not use brooms or compressed air to clean surfaces. Use dust collection vacuum and extraction systems. Dampened material should be removed by mechanical means and recycled or disposed of according to local and national regulations. Keep in suitable, closed containers for disposal.

Section 7 Handling and Storage

Precautions for safe handling

Practice good housekeeping. Use adequate exhaust ventilation, dust collection and/or water mist to maintain airborne dust concentrations below permissible exposure limits (note: respirable crystalline silica dust may be in the air without a visible dust cloud). Do not permit dust to collect on walls, floors, sills, ledges, machinery, or equipment. Maintain and test ventilation and dust collection equipment. In cases of insufficient ventilation, wear a NIOSH approved respirator for silica dust when handling or disposing dust from this product. Avoid contact with skin and eyes. Wash or vacuum clothing that has become dusty. Avoid eating, smoking, or drinking while handling the material.

Conditions for safe storage, including any incompatibilities

Store in a dry, cool, clean, and ventilated area to avoid heat and humidity.

Section 8 Exposure Controls/Personal Protection

Components with workplace control parameters

Ingredient	OSHA PEL	NIOSH REL	ACGIH
	TWA	TWA	TWA
Calcium Oxide	5 mg/m ³	2 mg/m ³	2 mg/m ³
Particulates not otherwise regulated (total dust)	15 mg/m ³	15 mg/m ³	not established
Particulates not otherwise regulated (respirable fraction)	5 mg/m ³	5 mg/m ³	not established
Total Quartz	30 mg/m ³ / (%SiO2+2)	not established	not established
Respirable Crystalline Silica	10 mg/m ³ / (%SiO2+2)	0.05 mg/m ³	0.025 (α-quartz & cristobalite)

Appropriate engineering controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of mists and/or vapors below the recommended exposure limits. An eye wash station and safety shower should be located near the workstation.



Section 8 Exposure Controls/Personal Protection continued

Personal protective equipment

Eye/face protection

Use safety glasses equipped with side shields. Avoid wearing contact lenses.

Skin protection

Hand Protection

With product at ambient temperatures, use disposable neoprene, butyl rubber, nitrile, or other suitable material gloves. Gloves should be replaced at the first sign of wear.

Body Protection

Prevent skin contact when handling material.

Respiratory Protection

The need for respiratory protection is not anticipated under normal use conditions and with adequate ventilation. If elevated airborne concentrations above applicable workplace exposure levels are anticipated, a NIOSH-approved organic vapor respirator equipped with a dust/mist prefilter should be used.

Safety Stations

Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

General Hygienic Practices

Avoid breathing vapor or mist. Avoid contamination of food, beverages, or smoking materials. Wash thoroughly after handling, and before eating, drinking or smoking. Remove contaminated clothing promptly and clean thoroughly before reuse.

Appearance	Fine tan/gray particulate
Odor	Odorless
Odor Threshold	No data available
рН	No data available
Melting Point	No data available
VOC Content	No data available
Initial boiling point & boiling ra	nge No data available
Flash Point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	Not combustible
Explosive limit - LEL	No data available
Vapor Pressure	No data available
Vapor density	No data available
Relative density (g/cc)	0.60 – 0.95
Water Solubility	Slight
Coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available



Section 10 Stability and Reactivity Reactivity Non-reactive **Chemical stability** Stable under normal use and recommended storage conditions Possibility of hazardous reactions None **Conditions to avoid** Product can become airborne in moderate winds. Dry material should be stored in silos. Materials stored out of doors should be covered or maintained in a damp condition. **Incompatible materials** None known Hazardous decomposition products None known **Section 11 Toxicological Information** Information on toxicological effects Acute oral toxicity LD50 > 2000 mg/kg Acute inhalation toxicity LD50 > 5.0 mg/LAcute dermal toxicity LD50 > 2000 mg/kg Skin corrosion/irritation Not irritating to skin Serious eye damage/eye irritation Slight, but reversible **Respiratory or skin sensitization** Not a respiratory or dermal sensitizer Germ cell mutagenicity Not mutagenic in in vitro and in vivo assays with or without metabolic activation. **Carcinogenicity:** IARC Respirable Crystalline Silica Quartz is known to be carcinogenic to humans. NTP Respirable Crystalline Silica has been identified as a carcinogen. No component of this product present at levels greater than or equal to 0.1% **OSHA** is identified as a carcinogen or potential carcinogen. **Reproductive toxicity** Not expected to be a hazard Specific target organ toxicity - single exposure No specific target organ toxicity after a single exposure to the substance is expected; however, presence as a nuisance dust may result in respiratory irritation. Specific target organ toxicity - repeated exposure NOAEC=4.2 mg/m³ dust; as no effects were observed at the highest dose tested during the 180 day inhalation study, it is not possible to assess the level at which toxicologically significant effects may occur. **Aspiration hazard** Not applicable

Section 12 Ecological Information

Toxicity	No data available
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Results of PBT & vPvB assessment	No data available



Section 13 Disposal Considerations

Disposal

Use safety containers for disposal. Contact a licensed contractor for detailed recommendations. Follow applicable Federal, State, and local regulations.

Section 14 Transport Information

DOT:Not regulatedTDG:Not regulatedIMDG:Not regulatedIATA:Not regulated

Section 15 Regulatory Information

US Federal Regulations

RCRA Hazardous Waste Number (40 CFR 261.33): Not listed RCRA Hazardous Waste Classification (40 CFR 261): Not classified CERCLA Hazardous Substance Reportable Quantity (RQ): None SARA 311/312 Codes: Not subject to reporting requirements SARA Toxic Chemical (40 CFR 372.65): Not listed TSCA Inventory Status: All ingredients listed on TSCA inventory requirements

US State Regulations

California Proposition 65: A WARNING: This product can expose you to Respirable Crystalline Silica, which is known to the State of California to cause cancer. For more information go to <u>www.P65Warnings.ca.gov</u>

Section 16 Other Information

Disclaimer

The following supersedes Buyer's documents. SELLER MAKES NO REPRESENTATION OR WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. No statements herein are to be construed as inducements to infringe any relevant patent. Under no circumstances shall Seller be liable for incidental, consequential or indirect damages for alleged negligence, breach of warranty, strict of liability arising in connection with the product(s). Buyer's sole remedy and Seller's sole liability for any claims shall be Buyer's purchase price. Data and results are based on controlled lab work and must be confirmed by Buyer by testing for its intended conditions of use. The product(s) has not been tested for, and is therefore not recommended for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended; or for uses for which implantation within the human body is intended.