



## SAFETY DATA SHEET

## SECTION 1. IDENTIFICATION

GHS Product Identifier: Fume Silica

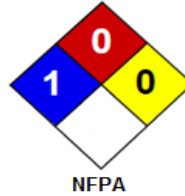
Chemical Name: Silica Fume, Amorphous Silica

Recommended Applications: Fume silica can be used in refractory and concrete formulations to enhance certain physical properties.

Manufacturer Information: TAM Ceramics, LLC (#220821)  
 4511 Hyde Park Blvd Niagara Falls, NY 14305  
 Phone Number: 716-278-9400

Website: [www.tamceramics.com](http://www.tamceramics.com)

**CHEMICAL EMERGENCY** CHEMTREC 24 HOUR EMERGENCY TELEPHONE  
**Spill, Leak, Fire, Exposure** DOMESTIC NORTH AMERICA 800-424-9300  
**or Accident** INTERNATIONAL CALL: 703-527-3887  
 Collect Calls Accepted



Health	1
Fire	0
Reactivity	0
Personal Protection	X

HMIS

## SECTION 2. HAZARDS IDENTIFICATION

GHS Pictogram:



Signal word: WARNING

GHS classification: Eye irritation, Category 2  
 Skin irritation, Category 2

Hazard Statement: Inert particles can be slightly, mechanically irritating to the eyes.  
 Prolonged skin contact may cause skin irritation or dermatitis.  
 Overexposure by inhalation may cause respiratory irritation.

Precautionary Statement: Wash hands thoroughly after handling. Minimize exposure by wearing protective gloves, clothing, eye protection and respiratory masks. Have a clean change of works clothes readily available. Avoid dust formation and utilize good housekeeping practices.

Route of Exposure: Eyes, skin, inhalation and ingestion.

Potential Health Effects:

Eye:	May cause a slight irritation.
Skin:	May cause a slight irritation.
Inhalation:	Prolonged inhalation may cause respiratory tract irritations.
Ingestion:	May irritate digestive tract if swallowed.

Chronic toxicity: Excessive inhalation of dust may cause chemical pneumonitis, cyanosis, and pulmonary edema.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	EC Number	Weight %	OSHA	ACGIH
Silica, amorphous, fumed	69012-64-2	273-761-1	>85%	6 mg/m <sup>3</sup> TWA	Not established
Zirconium Dioxide	1314-23-4	215-227-2	0 -10%	5 mg/m <sup>3</sup> TWA as Zr	10 mg/m <sup>3</sup> STEL as Zr 5 mg/m <sup>3</sup> TWA as Zr
Calcium Oxide	1305-78-8	215-138-9	0 - 4%	5 mg/m <sup>3</sup> TWA	2 mg/m <sup>3</sup> TWA

OSHA particulate (not otherwise regulated) limit: 5 mg/m<sup>3</sup> (respirable); 15 mg/m<sup>3</sup> (total).

## SECTION 4. FIRST AID MEASURES

**Eye contact:** Rinse eyes immediately with plenty of water on eye surfaces and under eyelids. Get medical attention if irritation develops.**Skin contact:** Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use. If symptoms persist, call a physician.**Inhalation:** Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If symptoms persist, call a physician.**Ingestion:** Drink plenty of water. Consult a physician if necessary. Do not induce vomiting without medical advice.**Notes to physician:** Treat symptomatically.

## SECTION 5. FIRE-FIGHTING MEASURES

**Flash point:** No data available**Suitable extinguishing media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.**Hazardous decomposition products:** Thermal decomposition can lead to release of irritating gases and vapors.**Special protective equipment for firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, NIOSH (approved or equivalent) and full protective gear.**Unusual hazards:** Dust may form explosive mixture in air.

SECTION 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Avoid dust formation. Evacuate area of all unnecessary personnel. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Fine dust dispersed in air may ignite.

**Environmental precautions:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

**Methods for cleaning up:** Use approved industrial vacuum cleaner for removal. Wear personal protective equipment. Dispose of promptly.

SECTION 7. HANDLING AND STORAGE

**Handling:** Handle in accordance with good industrial hygiene and safety practice. Avoid dust formation. Avoid contact with skin, eyes and clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Provide appropriate exhaust ventilation at places where dust is formed. Remove all sources of ignition. Wash hands thoroughly before eating, drinking or smoking.

**Storage:** Keep container tightly closed in a dry and well-ventilated place.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering measures:** Ensure adequate ventilation, especially in confined areas.

**Respiratory protection:** Use NIOSH approved respirator when ventilation is inadequate.

**Hand protection:** Impervious gloves.

**Skin and body protection:** Lightweight protective clothing.

**Eye protection:** Safety glasses with side-shields.

**Exposure limits:** See Section 2.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Color:** Light to Dark Gray

**Odor:** Odorless

**Boiling point/range (°C):** No data available

**Melting point/range (°C):** 1710

**Vapor pressure (mmHg):** No data available

**Water solubility (mg/l):** Insoluble

**Physical state:** Powder

**Molecular weight:** No data available

**pH:** No data available

**Specific gravity (Water =1):** 2.200

**Evaporation rate (Water =1):** No data available

**VOC content (%):** No data available

**Odor threshold:** No Data Available

**Vapor pressure:** No Data Available

**Flash point:** No Data Available

**Flammability (solid, gas):** No Data Available

**Upper/lower flammability or explosive limits:** No Data Available

**Vapor density:** No Data Available

**Relative density:** No Data Available

**Partition coefficient: n-octanol/water:** No Data Available

**Auto-ignition temperature:** No Data Available

**Decomposition temperature:** No Data Available

**Viscosity:** No Data Available

SECTION 10. STABILITY AND REACTIVITY

**Stability:** Stable at normal conditions.

**Polymerization:** Will not occur.

**Hazardous decomposition products:** None under normal use.

**Materials to avoid:** None known.

**Conditions to avoid:** Avoid dust formation

SECTION 11. TOXICOLOGICAL INFORMATION

**Acute toxicity:** No data is available on the product itself.

SECTION 12. ECOLOGICAL INFORMATION

**Aquatic toxicity:** No information available

**Persistence and degradability:** No information available

SECTION 13. DISPOSAL CONSIDERATIONS

**Waste from residues / unused products:** Waste must be disposed of in accordance with federal, state and local environmental control regulations. Where possible recycling is preferred to disposal or incineration.

SECTION 14. TRANSPORT INFORMATION

**DOT:**

Proper shipping name: Not regulated.

**TDG (Canada):**

Proper shipping name: Not regulated.

SECTION 15. REGULATORY INFORMATION

**U.S. Regulations:**

**Not subject to the provisions of SARA 313 Title III**

**Not subject to TSCA 12(b) Export Notification**

**State Regulations**

This product or its ingredients have been evaluated for New Jersey, Pennsylvania, and California Prop 65 supplier notification requirements. Substances that are subject to notification requirements, if any, are listed below.

**Canadian WHMIS**

WHMIS hazard class: D2B Toxic materials.

**International Inventories**

TSCA 8(b): All the ingredients are on the TSCA list.

Canadian DSL: All the ingredients are on the DSL.

EINECS: All the ingredients are on the EINECS list.

Philippines (PICCS): Listed.

Japan (ENCS): Listed.

Korea (KECL): Listed.

China (IECS): Listed.

Australia (AICS): Listed.

**For Industrial Use Only****National Fire Protection Association (U.S.A.):****Health:** 1**Fire:** 0**Physical Hazard:** 0**PPE:** X**Prepared by:** Product Manufacturer, TAM Ceramics Group of NY, LLC**Protective Equipment:** Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Safety glasses.

The information and recommendations contained in this Safety Data Sheet have been compiled from sources believed to be reliable and to represent the most reasonable current opinion on the subject when the SDS was prepared. No warranty, guaranty or representation is made as to the correctness or sufficiency of the information. The user of this product must decide what safety measures are necessary to safely use this product, either alone or in combination with other products, and determine its environmental regulatory compliance obligations under any applicable federal or state laws.

Last Updated: May 2015

**End of Safety Data Sheet**