

## 1. Identification

Product Identifier: **Fumed Silica**  
Product Code(s): FUMEDSILICA  
Use: Filler for Liquid Polyurethane Rubbers and Plastics. For Industrial/Professional use only.  
Manufacturer: Polytek Development Corp.  
55 Hilton St., Easton, PA 18042  
Phone Number: 610-559-8620 (9 a.m. to 5 p.m. EST)  
Emergency Phone: CHEMTREC 800-424-9300 or +1 (703) 527-3887  
E-mail: [sds@polytek.com](mailto:sds@polytek.com)

## 2. Hazards Identification

**GHS Classification:** Not classified as hazardous under GHS/OSHA's Hazard Communication Standard (29 CFR 1010.1200).

**Label Elements:** Not required.

**Supplemental Information:** May cause mild eye, skin and respiratory irritation. Avoid contact with eyes and skin. Read and understand the hazard information on relevant liquid rubber or liquid plastic components before use.

## 3. Composition/Information on Ingredients

Chemical Name	CAS #	%
Silicon dioxide, fumed	112945-52-5, 7631-86-9	100

## 4. First-Aid Measures

**Eye Contact:** Rinse thoroughly with water, holding the eyelids open to be sure the material is washed out. Get medical attention if irritation persists.

**Skin Contact:** Wash contact area thoroughly with soap and water. Get medical attention if irritation persists.

**Inhalation:** If breathing is difficult, remove person to fresh air and keep comfortable. If experiencing respiratory symptoms: Call a doctor.

**Ingestion:** If swallowed, rinse mouth. Drink water. Induce vomiting only with medical supervision.

**Most Important Symptoms/Effects:** Mild eye, skin and respiratory irritation.

**Indication of Immediate Medical Attention/Special Treatment:** Not expected to be required.

## 5. Fire-Fighting Measures

**Extinguishing Media:** Carbon dioxide, dry chemical, foams, or water spray.

**Specific Hazards:** Not classified as flammable or combustible. May generate toxic/irritating compounds and dense smoke in fire conditions.

**Special Protective Equipment and Precautions for Fire-Fighters:** Wear SCBA & full-body protective suit. Cool hot containers with water.

## 6. Accidental Release Measures

**Personal Precautions, Protective Equipment and Emergency Procedures:** Remove ignition sources. Clear non-emergency personnel from the area. Wear appropriate protective clothing to prevent eye and skin contact.

**Methods and Materials for Containment and Cleanup:** Contain spill and prevent/minimize release to the environment. Collect and containerize material. Dispose of in accordance with state and local regulations.

## 7. Handling and Storage

**Safe Handling:** Use in well-ventilated area. Avoid contact with eyes, skin and clothing. Do not eat, drink or smoke in work area. Wash hands after handling. See Section 8.

**Safe Storage:** Store indoors at temperatures between 60 and 95°F. Store in original containers. Avoid getting moisture into containers. Keep containers tightly closed.

## 8. Exposure Controls/Personal Protection

### Exposure Limits:

Fumed Silica (Synthetic amorphous silicon dioxide, crystalline-free) ACGIH TLV: 2 mg/m<sup>3</sup> TWA  
OSHA PEL: 20 mppcf

**Engineering Controls:** Provide general or local exhaust to minimize airborne concentrations.

**Personal Protective Equipment:** Wear eye protection (e.g., chemical safety glasses) and protective gloves (e.g., nitrile rubber). Wear a dust mask or a half-face air-purifying respirator with HEPA filter cartridges. Observe respirator limitations specified by manufacturer and OSHA respiratory protection standard (29 CFR 1910.134).

**Other Protective Measures:** None.

## 9. Physical and Chemical Properties

**Appearance:** White powder

**Odor:** None

**Odor Threshold:** No data available

**pH:** Not applicable

**Melting Point:** ~1700°C

**Boiling Point:** No data available

**Flash Point:** Not applicable

**Evap. Rate:** No data available

**Flammable Limits:** No data available

**Vapor Pressure:** Not applicable

**Vapor Density:** Not applicable

**Relative Density:** 2.2 @ 25°C

**Solubility:** Insoluble in water

**Partition Coefficient: n-octanol/Water:** No data available

**Auto-Ignition Temp:** No data available

**Decomposition Temp:** No data available

**Viscosity:** Not applicable

## 10. Stability and Reactivity

**Reactivity:** Not normally reactive.

**Chemical Stability:** Stable.

**Possibility of Hazardous Reactions:** No data available.

**Conditions to Avoid:** Excessive heat.

**Incompatible Materials:** Strong acids and bases.

**Hazardous Decomposition Products:** Thermal decomposition generates oxides of carbon.

## 11. Toxicological Information

**Eye Contact:** May cause mild irritation.

**Skin Contact:** May cause mild irritation.

**Inhalation:** May cause mild respiratory irritation. Individuals with asthma and/or bronchitis may be more susceptible to developing symptoms upon exposure.

**Ingestion:** Single oral dose toxicity is low. Large amounts may cause gastrointestinal effects. No other data available.

**Chronic Health Effects:** None known.

**Acute Toxicity Values:** No data available.

**Germ Cell Mutagenicity:** Components are not known mutagens.

**Carcinogenicity:** Components are not listed as known or suspected carcinogens by NTP, IARC or OSHA.

**Reproductive Toxicity:** Components are not known or suspected reproductive toxins.

**Specific Target Organ Toxicity:** Components are not known or suspected specific target organ toxins upon single or repeat exposure.

## 12. Ecological Information

**Ecotoxicity:** Not expected to be dangerous to aquatic organisms.

**Persistence and Degradability:** Not readily biodegradable.

**Bioaccumulative Potential:** No data available.

**Mobility in Soil:** No data available.

## 13. Disposal Considerations

Dispose according to local, regional and national regulations.

**For U.S.:** Upon disposal, this product is not RCRA hazardous waste (per 40 CFR 261).

## 14. Transport Information

Not regulated for transport in any mode.

**Emergency Shipping Information:** Call CHEMTREC, 800-424-9300 or +1-703-527-3887

## 15. Regulatory Information

### U.S. FEDERAL REGULATIONS:

**CERCLA 103 Reportable Quantity:** Not subject to reporting under CERCLA.

### SARA TITLE III:

**Hazard Category for Section 311/312:** Not Hazardous

**Section 313 Toxic Chemicals:** Contains no chemicals subject to SARA Title III Section 313 Reporting requirements.

**Section 302 Extremely Hazardous Substances (TPQ):** None

**EPA Toxic Substances Control Act (TSCA) Status:** Components are listed on the TSCA inventory.

### STATE REGULATIONS:

**California Proposition 65:** This product does not contain substances known to the State of California to cause cancer and/or reproductive harm.

## 16. Other Information

**Training Advice:** All personnel using/handling this product should be trained in proper chemical handling and the need for and use of engineering controls and protective equipment.

**Recommended Uses and Restrictions:** This product is intended for industrial or professional use only.

**SDS Revision Notes:** New GHS classification and format: June 2, 2015. Supersedes MSDS dated Aug. 15, 2011.

**Disclaimer:** The information contained herein is considered accurate; however, Polytek® makes no warranty regarding the accuracy of the information. The user must determine the suitability of the product for the intended use and accepts all risk and liability associated with that use.