

## Material Safety Data Sheets

### 1. IDENTIFICATION OF THE SUBSTANCE OR PREPARATION AND THE COMPANY

#### UNDERTAKING

**Product name:** SILICA

**Intended use:** Rubber additive

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Product name	Content	Cas no.
Silica precipitated	93%	14808-60-7

### 3. HAZARDS IDENTIFICATION

**Appearance:** colorless to white. Causes respiratory tract irritation. May cause skin irritation. May cause eye irritation. May cause digestive tract irritation.

**Target Organs:** Lungs.

#### **Potential Health Effects**

**Eye:** Dust may cause mechanical irritation.

**Skin:** Dust may cause mechanical irritation.

**Ingestion:** May cause irritation of the digestive tract.

**Inhalation:** Dust is irritating to the respiratory tract.

**Chronic:** Prolonged exposure to respirable crystalline quartz may cause delayed lung injury/fibrosis (silicosis).

### 4. FIRST AID MEASURES

**Eyes:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Get medical aid.

**Skin:** Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.

**Ingestion:** Treat symptomatically and supportively. Get medical aid.

**Inhalation:** Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

**Notes to Physician:** None

**Antidote:** None reported

### 5. FIRE-FIGHTING MEASURES

**General Information:** Material will not burn. Use extinguishing media appropriate to the surrounding fire.

**Extinguishing Media:** For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

**Autoignition Temperature:** Not available.

**Flash Point:** Not available.

**NFPA Rating:** Not published. Explosion Limits, Lower: Not available. Upper: Not available.

### 6. ACCIDENTAL RELEASE MEASURES

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions.

## **7. HANDLING AND STORAGE**

**Handling:** Use only in a well ventilated area. Minimize dust generation and accumulation. Avoid ingestion and inhalation.

**Storage:** Store in a tightly closed container. Store in a dry area.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Engineering Controls:** Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

### **Exposure Limits**

Chemicals name	ACGIH	NIOSH	OSHA - Final PELs
Silica precipitated	10 mg/m <sup>3</sup>	none listed	see Table Z-3

**OSHA Vacated PELs:** Silica, amorphous, precipitated and gel: 6 mg/m<sup>3</sup> TWA

### **Personal Protective Equipment**

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:** Wear appropriate gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to minimize contact with skin.

**Respirators:** Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

**Physical State:** Solid

**Appearance:** colorless to white

**Odor:** odorless

**pH:** 2.3-7.4 (aqu. susp)

**Vapor Pressure:** Negligible.

**Vapor Density:** Not available.

**Viscosity:** Not applicable.

**Boiling Point:** 4046 deg F

**Freezing/Melting Point:** 3110 deg F

**Decomposition Temperature:** Not available.

**Solubility:** insoluble in water

**Specific Gravity/Density:** no

**Molecular Formula:** SiO<sub>2</sub>

## **10. STABILITY AND REACTIVITY**

**Chemical Stability:** Stable.

**Conditions to Avoid:** Incompatible materials, moisture.

**Incompatibilities with Other Materials:** Strong acids, hydrogen fluoride

**Hazardous Decomposition Products:** No data available.

**Hazardous Polymerization:** Not available.

## **11. TOXICOLOGICAL INFORMATION**

**RTECS#:**

**CAS#** 14808-60-7

**LD50/LC50:** Not available.



**Carcinogenicity:**

**CAS# 14808-60-7:** Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

**Epidemiology:** No data available.

**Teratogenicity:** No data available.

**Reproductive Effects:** No data available.

**Neurotoxicity:** No data available.

**Mutagenicity:** No data available.

**Other Studies:** No data available.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity:** No information reported.

**Environmental Fate:** No information reported.

**Physical/Chemical:** No information reported.

**Other:** None

**13. DISPOSAL CONSIDERATIONS**

Dispose of in a manner consistent with federal, state, and local regulations.

**RCRA D-Series Maximum Concentration of Contaminants:** None listed.

**RCRA D-Series Chronic Toxicity Reference Levels:** None listed.

**RCRA F-Series:** None listed.

**RCRA P-Series:** None listed.

**RCRA U-Series:** None listed.

**14. TRANSPORT INFORMATION***Land transport (ADR/ RID)*

**ADR class** not restricted

**RID class** not restricted

**Hazard Identification No.** not relevant

**TREM-Card** not relevant

**Proper Shipping Name** not relevant

**ADR/RID packing group** not relevant

**Substance Identification No.** none

**UN number** none

*Sea transport (IMDG-code/ IMO)*

**IMO/IMDG code** not restricted

**Packing group** not relevant

**EMS** not relevant

**Marine pollutant** no

**Proper Shipping Name** not relevant

**Class** not restricted

**UN number** none

**Subsidiary Risk** no

*Air transport (ICAO-TI/ IATA-DGR)*

**ICAO-TI/IATA-DGR**

**Class** not restricted

**Proper Shipping Name** not relevant

**UN number** none

**Packing group** not relevant

**15. REGULATORY INFORMATION****US FEDERAL****TSCA**

CAS# 14808-60-7 is not listed on the TSCA inventory. It is for research and development use only.

**Health & Safety Reporting List**

None of the chemicals are on the Health & Safety Reporting List.

**Chemical Test Rules**

None of the chemicals in this product are under a Chemical Test Rule.

**Section 12b**

None of the chemicals are listed under TSCA Section 12b.

**TSCA Significant New Use Rule**

None of the chemicals in this material have a SNUR under TSCA.

**SARA**

**Section 302 (RQ)**

None of the chemicals in this material have an RQ.

**Section 302 (TPQ)**

None of the chemicals in this product have a TPQ.

**Section 313**

No chemicals are reportable under Section 313.

**Clean Air Act:**

This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.

**Clean Water Act:**

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

**OSHA:**

None of the chemicals in this product are considered highly hazardous by OSHA.

**STATE**

CAS# 14808-60-7 can be found on the following state right to know lists: Pennsylvania, Minnesota, Massachusetts.

California No Significant Risk Level: None of the chemicals in this product are listed. European/International Regulations

**European Labeling in Accordance with EC Directives**

**Hazard Symbols:** Not available.

**Risk Phrases:**

**Safety Phrases:**

WGK (Water Danger/Protection)

CAS# 14808-60-7: 0

**Canada**

CAS# 14808-60-7 is listed on Canada's DSL/NDL List.

This product has a WHMIS classification of Not controlled.

CAS# 14808-60-7 is not listed on Canada's Ingredient Disclosure List.

**16. OTHER INFORMATION**

This information only concerns the above mentioned product and does not need to be valid if used with other product(s) or in any process. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.