

1. Identification & Company Identification

Trade Names:

Crystal Quartz Sand (including all various sizes)

Product Description:

White and Tan Granules

Company Name:

Cal-Silica LLC.

1420 S. Bon View Ave., Ontario, CA 91761

Emergency phone:

(800) 325-6851

Recommended Use:

Glass sand; traction sand; filtration sand; foundry sand; golf course and recreation sand; roofing sand; industrial filler sand; and equestrian sand.

* The "Recommended use" identified for this product is provided solely to comply with a US Federal requirement and is not part of Cal-Silica LLC. published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in Cal-Silica LLC. Sales Agreement.

2. Hazard(s) Identification

Hazard Statements (GHS-US/CA)

H335 - May cause respiratory irritation.

H350 - May cause cancer.

H372 - Causes damage to organs through prolonged or repeated exposure.

Hazard Pictogram:

Signal Word: Danger

Precautionary Statements (GHSUS/CA)

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P260 - Do not breathe vapors, mist, or spray.

P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P271 - Use only outdoors or in a well-ventilated area.

P280 - Wear protective gloves, protective clothing, and eye protection.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P308+P313 - If exposed or concerned: Get medical advice/attention.

P312 - Call a POISON CENTER or doctor if you feel unwell.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P405 - Store locked up.

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

3. Composition/Information on Ingredients

| Substance Name | CAS Number | UN Number | EINECS Number | Proportion (by weight) |
|--------------------------------|------------|------------|---------------|------------------------|
| Crystalline Silica (Quartz) | 14808-60-7 | 238-878-4 | 238-878-4 | > 95% |
| Ferric Oxide | | 1332-37-2 | | > 2% |
| Feldspar | | 68476-25-5 | | > 2% |
| Mica | | 12001-26-2 | | > 2% |

4. First-Aid Measures**Description of necessary measures**

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.

Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

Most Important Symptoms and Effects Both Acute and Delayed

General: Dust may cause mechanical irritation to eyes, nose, throat, and lungs. May cause respiratory irritation. May cause cancer. Causes damage to organs (lungs) through prolonged or repeated exposure (inhalation).

Inhalation: Irritation of the respiratory tract and the other mucous membranes. This product contains crystalline silica. Prolonged or repeated inhalation of respirable crystalline silica from this product can cause silicosis, a seriously disabling and fatal lung disease.

Skin Contact: Prolonged exposure may cause skin irritation. Prolonged contact with large amounts of dust may cause mechanical irritation.

Eye Contact: May cause slight irritation to eyes.

Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: May cause cancer. Causes damage to organs (lungs) through prolonged or repeated exposure (inhalation). Repeated or prolonged exposure to respirable (airborne) crystalline silica dust will cause lung damage in the form of silicosis. Symptoms will include progressively more difficult breathing, cough, fever, and weight loss. Pre-existing lung diseases such as emphysema or asthma may be aggravated by exposure to dusts. Pulmonary function may be reduced by inhalation of respirable crystalline silica. Also lung scarring produced by such inhalation may lead to a progressive massive fibrosis of the lung which may aggravate other pulmonary conditions and diseases and which increases susceptibility to pulmonary tuberculosis. Progressive massive fibrosis may be accompanied by right heart enlargement, heart failure, and pulmonary failure. Smoking aggravates the effects of exposure.

Most Important Symptoms and Effects Both Acute and Delayed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

5. Fire-Fighting Measures

Flammability of the Product: Non-flammable and non-combustible

Suitable extinguishing agents: Treat for surrounding material

Special hazards arising from the substance or mixture: None

Products of Combustion: None

Explosion Hazards in Presence of Various Substances: Non-explosive in presence of shocks

6. Accidental Release Measures

Precautions if Material is Spilled or Released

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Methods and materials for containment and cleaning - up

Methods for Containment: Pick up large pieces, then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for Cleaning-Up:

Vacuum or sweep material and place in a disposal container.

7. Handling and Storage

Precautions for Safe Handling

Additional Hazards When Processed: Repeated or prolonged exposure to respirable (airborne) crystalline silica dust will cause lung damage in the form of silicosis. Symptoms will include progressively more difficult breathing, cough, fever, and weight loss.

Precautions for Safe Handling: Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid contact with eyes, skin and clothing. Do not breathe dust.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations. Avoid creating or spreading dust.

Storage Conditions: Keep container closed when not in use. Store in a well-ventilated place. Keep/store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Incompatible Materials: Strong oxidizers. Fluorine. Fluorinated compounds. Acetylene. Ammonia. Hydrogen peroxide. Hydrofluoric acid.

8. Exposure Controls/personal Protection

OSHA Permissible Exposure Limit (or ACGIH):

Values have not been established.

Recommended Threshold Limit:

The National Institute of Occupational Safety and Health also has a Recommended Exposure Limit (REL) of 0.05 mg/m³ for respirable crystalline silica, based on a 10-hour time weighted average.

Respiratory Protection:

Use and maintain respirators that conform to ANSI Standard (Z88.2) particulate respirators. Select respirators based on the level of exposure to crystalline silica as measured by dust sampling. Use respirators that offer protection to the highest concentrations of crystalline silica if the actual concentrations are unknown. Put in place a respiratory protection and monitoring program that complies with MSHA or OSHA (e.g. 29 CFR 1910.134) standards, which include provisions for a user training program, respirator repair and cleaning, respirator fit testing, and other requirements. Comply with all other federal state laws.

Gloves:

Plastic, rubber or cotton.

Eye Protection:

Safety glasses or chemical goggles. Refer to 29 CFR 1910.133 or European Standard EN166.

Other Protective Equipment:

N/A

Personal Hygiene:

Avoid breathing dust.

Engineering Control:

Use with adequate ventilation.

9. Physical and Chemical Properties

| | |
|---|--|
| Physical State : Solid | Flammability (solid, gas) : Not available |
| Appearance : Granular white/tan solid | Lower Flammable Limit : Not available |
| Odor : Odorless | Upper Flammable Limit : Not available |
| Odor Threshold : Not available | Vapor Pressure : Not available |
| pH : Not available | Relative Vapor Density at 20°C : Not available |
| Evaporation Rate : Not available | Relative Density : Not available |
| Melting Point : Not available | Specific Gravity : 2.65 |
| Freezing Point : Not available | Solubility : Not available |
| Boiling Point : ≈ 4000 °F (≈ 2204.44 °C) | Partition Coefficient: N-Octanol/Water : Not available |
| Flash Point : Not available | Viscosity : Not available |
| Auto-ignition Temperature : Not available | |
| Decomposition Temperature : Not available | |

10. Stability and Reactivity**Stability:**

Crystalline silica is stable under ordinary conditions.

Conditions to Avoid:

Excessive dust generation during storage and handling.

Incompatibility (Materials to Avoid):

Incompatibility: Hydrofluoric acid will dissolve silica and can generate silicon tetrafluoride, a corrosive gas. Contact with strong oxidizing agents such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride, or oxygen difluoride may cause fires and/or explosions.

NFPA Hazard Ratings:

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

11. Toxicological Information

Acute Toxicity (Oral): Not classified

Acute Toxicity (Dermal): Not classified

Acute Toxicity (Inhalation): Not classified

LD50 and LC50 Data: Not available

Skin Corrosion/Irritation: Not classified

Eye Damage/Irritation: Not classified

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Carcinogenicity: May cause cancer.

Specific Target Organ Toxicity (Repeated Exposure): Causes damage to organs through prolonged or repeated exposure.

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Repeated Exposure): May cause respiratory irritation.

Aspiration Hazard: Not classified

Symptoms/Injuries after Inhalation: Irritation of the respiratory tract and the other mucous membranes. This product contains crystalline silica. Prolonged or repeated inhalation of respirable crystalline silica from this product can cause silicosis, a seriously disabling and fatal lung disease.

Symptoms/Injuries after Skin Contact: Prolonged exposure may cause skin irritation. Prolonged contact with large amounts of dust may cause mechanical irritation.

Symptoms/Injuries after Eye Contact: May cause slight irritation to eyes.

Symptoms/Injuries after Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: May cause cancer. Causes damage to organs (lungs) through prolonged or repeated exposure (inhalation).

Repeated or prolonged exposure to respirable (airborne) crystalline silica dust will cause lung damage in the form of silicosis. Symptoms will include progressively more difficult breathing, cough, fever, and weight loss. Pre-existing lung diseases such as emphysema or asthma may be aggravated by exposure to dusts. Pulmonary function may be reduced by inhalation of respirable crystalline silica. Also lung scarring produced by such inhalation may lead to a progressive massive fibrosis of the lung which may aggravate other pulmonary conditions and diseases and which increases susceptibility to pulmonary tuberculosis. Progressive massive fibrosis may be accompanied by right heart enlargement, heart failure, and pulmonary failure. Smoking aggravates the effects of exposure

12. Ecological Information

There is a limited amount of ecological data available on this product, primarily because it is a naturally occurring mineral. An adequate representation of this data is beyond the scope of this document.

13. Disposal Considerations

Dispose of material as inert, non-metallic mineral in conformance with local, state, and federal regulations. Crystalline silica is not a RCRA hazardous waste.

14. Transport Information

DOT Shipping Name: Non-Hazardous for Transport

DOT Hazard Class: Not Regulated

UN/NA ID No.: None

UN TDG Class: Not Regulated

Hazard Id No. (HIN): None

IMDG Hazard Class: Not Regulated

IATA Hazard Class: Not Regulated

RID/ADR Code: Not Regulated

Label: None Required

Hazard Symbols: None

15. Regulatory Information**TSCA (U.S.A. – Toxic Substance Control Act)**

All components of this product are listed on the U.S. Toxic Substances Control Act Chemical Inventory or are exempted from listing because a Low Volume or Polymer Exemption has been granted in accordance with 40 CFR 723.50.

SARA TITLE III (U.S.A. – Superfund Amendments & Reauthorization Act)

311/312 Hazard Categories-Immediate Health, 313 Reportable Ingredients-None

CERCLA (U.S.A. – Comprehensive Response Compensation & Liability Act)

None

California Prop 65, Safe Drinking Water & Toxic Enforcement Act of 1986

WARNING: This product contains Crystalline Silica, a chemical known to the State of California to cause cancer. For more information visit www.P65Warnings.ca.gov.

CPR (Canadian Controlled Products Regulations)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. WHMIS Classification: Not controlled

IDL (Canadian Ingredient Disclosure List)

Components of this product identified by CAS number and listed on the Canadian Ingredient Disclosure List are shown in Section 2.

DSL/NDSL (Canadian Domestic Substances List / Non-Domestic Substances List)

Components of this product identified by CAS number are not listed on the DSL or NDSL, or are otherwise in compliance with the New Substances Notification (NSN) regulations. Only ingredients classified as “hazardous” are listed in Section 2 unless otherwise indicated.

EINECS (European Inventory of Existing Commercial Chemical Substances)

Components of this product identified by CAS numbers are on the European Inventory of Existing Commercial Chemical Substances unless indicated as “not found”.

WGK Water Quality Index: nwg **VbK Index:** not applicable

16. Other InformationNotes

This form has been prepared to meet current Federal OSHA hazard communication regulations, and is offered without any warranty or guarantee of any type. Cal-Silica LLC. cannot control the use of its products, and therefore specifically disclaims liability and responsibility arising from the use, misuse, and alteration of its products. The information contained in this SDS was produced without independent scientific or medical studies analyzing the effects of silica upon human health. The information contained herein is based upon scientific and other data that Cal-Silica LLC. believes is valid and reliable as previously referenced in this SDS.

The information contained herein relates only to specific materials listed in the document, and does not address the effects of silica when used in combination with other materials or substances, or when used in other processes. Because conditions of use are beyond Cal-Silica LLC.'s control, the company makes no representations, guarantees or warranties, either express or implied warranties as to the fitness of the product for use, and assumes no liability related to the information contained above.

Cal-Silica LLC. requires, as a condition of use of its products, that purchasers comply with all applicable Federal, State and local health and safety laws, regulations, orders, requirements, and strictly adhere to all instructions and warnings, which accompany the product.

Disclaimer

The information presented is believed to be accurate but is not warranted to be. Whether originating with the company or not. Recipients are advised to confirm in advance of need, that the information is current, applicable and suitable to their circumstance.