

Material Safety Data Sheet

Revision Issued: 9/17/2010 Supercedes: 6/15/1999 First Issued: 4/10/1989

Section I - Chemical Product And Company Identification

Product Name: Desert Silica Granules

CAS Number: 14808-60-7

HBCC MSDS No. CD06000



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Section II - Composition/Information On Ingredients

Chemical Name	CAS Number
Silicon Dioxide (Respirable)	14808-60-7

See Section VIII for exposure guidelines

Section III - Hazard Identification

Routes of Exposure: Desert Brand Silica Granules can affect the body if it is inhaled, ingested, or comes in contact with the eyes and skin.

Ingestion: May be harmful if swallowed.

Inhalation: Crystalline silica can cause silicosis, a progressive and frequently incapacitating pneumoconiosis evident on x-ray and in pulmonary function testing, as well as in subjective respiratory complaints. Acute pneumoconiosis from overwhelming exposure to silica dust has occurred. Coughing and irritation of throat are early symptoms.

Skin: N/A

Eyes: May be slightly irritating to eyes. If irritation persists, GET MEDICAL ATTENTION.

Summary of Chronic Health Hazards

Signs and Symptoms of Exposure: Undue breathlessness, wheezing, cough, and sputum production.

Routes of Exposure: Desert Brand Silica Granules can affect the body if it is inhaled, ingested, or comes in contact with the eyes and skin.

Medical Conditions Generally Aggravated by Exposure: 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.

Note to Physicians: N/A

Section IV - First Aid Measures

Ingestion: N/A

Inhalation: If a person breathes in large amounts of this chemical, move the exposed person to fresh air at once, administer artificial respiration as needed. OBTAIN MEDICAL ATTENTION.

Skin: Wash skin with soap and water.

Eyes: While holding eyelids open, flush with plenty of water for 15 minutes. If irritation persists, OBTAIN MEDICAL ATTENTION.

Section V - Fire Fighting Measures

Flash Point: N/A

Autoignition Temperature: N/A

Lower Explosive Limit: N/A

Upper Explosive Limit: N/A

Extinguishing Media: N/A

Unusual Fire and Explosion Hazards: Not considered to be a fire or explosion hazard.

Special Firefighting Procedures: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

Section VI - Accidental Release Measures

Use dustless methods (vacuum) and place into closable container for disposal, or flush with water. Do not dry sweep. Vacuuming or wet sweeping may be used to avoid dust dispersal. Wear protective equipment

Section VII - Handling and Storage

Wear thick working gloves and safety glasses. Persons not wearing protective equipment as noted in Section VIII should be restricted from areas with spills or dust accumulation. Use waste containers suitable for transportation. Avoid breakage of bagged material or spills of bulk materials. Wash clothing that has become dusty; do not breathe the dust from clothing.

Other Precautions: Use dustless systems for handling, storage, and clean up so that airborne dust does not exceed the PEL.

Section VIII - Exposure Controls/Personal Protection

Exposure Controls

Engineering Controls: Use adequate ventilation and dust collection.

Work/Hygienic Practices: Practice good housekeeping. Do not permit dust to collect on walls, floors, sills, ledges, machinery, or equipment. Maintain, clean, and fit test respirators in accordance with OSHA regulations. Maintain and test ventilation and dust collection equipment. Wash or vacuum clothing which has become dusty. Wash hands thoroughly with soap and water before eating, drinking, smoking or using toilet facilities. Do NOT place food, coffee or other drinks in the area where dusting or splashing of solutions is possible.

Exposure Guideline(s): Silicon Dioxide (Respirable): CAS Number 14808-60-7, Exposure Limits (TWAs) in Air: ACGIH TLV: 0.1 mg/m³; OSHA PEL: 10 mg/m³; STEL: N/A

Silicon Dioxide (Dust): CAS Number 14808-60-7, Exposure Limits (TWAs) in Air: ACGIH TLV: 0.1 mg/m³; OSHA PEL: 30 mg/m³; STEL: N/A

Personal Protection

Personal Protection Equipment (PPE):

RESPIRATORY PROTECTION FOR CRYSTALLINE SILICA MINIMUM RESPIRATORY PROTECTION

Particulate Concentration:

5 x PEL or less: Any dust respirator.

10 x PEL or less: Any dust respirator, except single-use or quarter-mask respirator. OR Any dust respirator, except single-use or quarter-mask respirator. OR Any supplied-air respirator. OR Any self-contained breathing apparatus.

50 x PEL or less: A high efficiency particulate filter respirator with a full facepiece. OR Any supplied-air respirator with a full facepiece, helmet, or hood. OR Any self-contained breathing apparatus with a full facepiece.

500 x PEL or less: A Powered air-purifying respirator with a high efficiency particulate filter. OR A Type C supplied- air respirator operated in pressure-demand or other positive pressure or continuous-flow mode.

Greater than 500 x PEL or entry and escape from unknown concentrations: Self-contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode. OR A combination respirator which includes a Type C supplied-air respirator with a full facepiece operated in pressure-demand or other positive pressure continuous-flow mode and an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive pressure mode.

Abrasive Blasting: Any Type CE, supplied-air respirator with a full facepiece, hood, or helmet, operated in a positive-pressure mode.

Only NIOSH-approved or MSHA-approved equipment should be used.

Protective Clothing: Protective gloves are recommended. Overalls and/or coveralls are recommended.

Eye Protection: Safety glasses should be worn.

Respiratory Protection:

Ventilation:

Protective Clothing:

Eye Protection:

Other Protective Clothing or Equipment:

Work/Hygienic Practices:

Section IX - Physical and Chemical Properties

Physical State: Solid **pH:** N/A

Melting Point/Range: 3050°F **Appearance/Color/Odor:** White or tan sand, crushed, or ground, granular, odorless

Boiling Point/Range: 4046°F **Solubility in Water:** Insoluble in water

Vapor Pressure (mmHg): N/A **Specific Gravity (Water = 1):** 2.3 - 2.65

Molecular Weight: N/A **Vapor Density (Air = 1):** N/A

%Volatiles: N/A **How to detect this compound:** N/A

Section X - Stability and Reactivity

Stability: Stable

Hazardous Polymerization: Will Not Occur

Conditions to Avoid: None

Materials to Avoid: N/A

Hazardous Decomposition Products: Silica will dissolve in Hydrofluoric Acid and produce a corrosive gas - silicon tetrafluoride. At higher temperatures, can change crystal structure to form tridymite or cristobalite, which have greater health hazards.

Section XI - Toxicological Information

Quartz: NIOSH considers this substance to be a potential occupational carcinogen.

Section XII - Ecological Information

N/A

Section XIII - Disposal Considerations

May be disposed of in an unrestricted sanitary landfill. Disposal must be done in accordance with Local, State, and Federal regulations.

Section XIV - Transport Information

DOT Proper Shipping Name: N/A

DOT Hazard Class/ I.D. No.: N/A

Section XV - Regulatory Information

Reportable Quantity: N/A

NFPA Rating: Health - 2; Flammability - 0; Instability - 0

0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

Carcinogenicity Lists: NTP: Yes **IARC Monograph:** Yes **OSHA Regulated:** Yes

WARNING

This product contains crystalline silica, a chemical known to the State of California to cause cancer.

Section XVI - Other Information

Synonyms/Common Names: Silicon Dioxide, Silica Crystalline, Sand, Quartz

Chemical Family/Type: Oxides

Section(s) changed since last revision: III, V, VII, IX, X, XI, XV

IMPORTANT! Read this MSDS before use or disposal of this product. Pass along the information to employees and any other persons who could be exposed to the product to be sure that they are aware of the information before use or other exposure. This MSDS has been prepared according to the OSHA Hazard Communication Standard [29 CFR 1910.1200]. The MSDS information is based on sources believed to be reliable. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use, or misuse are beyond our control, [Hill Brothers Chemical Company](#) makes no warranty, either expressed or implied, with respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon. Also, additional information may be necessary or helpful for specific conditions and circumstances of use. It is the user's responsibility to determine the suitability of this product and to evaluate risks prior to use, and then to exercise appropriate precautions for protection of employees and others.