

Material Safety Data Sheets

May be used to comply with
OSHA's Hazard Communication Standard.
29 CFR 1920.1200. Standard must be
consulted for specific requirements

U.S. Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

Identity (As Used on Label and List)

SafSil®

CAS No. 7631-86-9

Note: Blank spaces are not permitted. If any item is not applicable, or
information is not available, the space must be marked to indicate that.
(N/A = Not Applicable)

Section I

Manufacturer's Name:

CR Minerals Company

Emergency Telephone Number:

24 hr Assistance - CHEMTREC 800-424-9300

Address (Number, Street, City, State, and ZIP Code):

P.O. Box 4305

Santa Fe, NM 87502

Telephone Number for Information:

800-748-2048

Date Prepared:

April 1, 2004

Section II – Hazardous Ingredients / Identity Information

Hazardous Components (Specific Chemical Identity: Common Names)

Silica, amorphous

OSHA PEL
80 mg/m³
%SiO₂

ACGIH TLV
10 mg/m³ (inhalable)
3 mg/m³ (respirable)

Other principal, inert components: **Complex silicates or oxides of Al, K, Na, Fe, Ca, Mg, Ti.**

Chemical Identity, major components:

Amorphous Silicon Dioxide (SiO₂),

M_xO_y • SiO₂ M=Al, Ca, Mg + other minor metal oxides, with bound silica (SiO₂)

Common Names: **Volcanic glass**

HMIS (Hazardous Materials Identification System Ratings – NPCA/CPCA)

Based on hazard rating of 4 = Most severe

Health 0

Flammability 0

Reactivity 0

Personal Protection Use approved dust mask; goggles to prevent eye irritation

Section III – Physical/Chemical Characteristics (N/A = Not Applicable)

Boiling Point:

N/A

Specific Gravity:

2.4

Vapor Pressure (mm Hg):

N/A

Melting Point:

N/A

Vapor Density:

(Air = 1)

N/A

Evaporation Rate:

(Butyl Acetate = 1)

N/A

Solubility in Water:

Negligible

Appearance and Odor:

Fine, slightly off-white powder. No odor.

Section IV – Fire and Explosion Hazard Data

Flash Point: **N/A**

Flammable Limits: **N/A**

LEL: **N/A**

UEL: **N/A**

Extinguishing Media: **N/A**

Special Fire Fighting Procedures: **N/A**

Unusual Fire and Explosion Hazards: **None**

Section V – Reactivity Data

SafSil

Stability	Unstable	Conditions to Avoid
	Stable X	No special precautions

Incompatibility (Materials to Avoid): **No incompatibility. (Reacts with hydrofluoric acid; soluble in HF)**

Hazardous Decomposition of Byproducts: **None**

Hazardous Polymerization	May Occur	Conditions to Avoid
	Will Not Occur X	No other hazards in the regard

Section VI – Health Hazard Data

Route(s) of Entry: Inhalation? **Yes** Skin? **No** Ingestion? **Non-hazardous**

Health Hazards (Acute and Chronic): **Irritation of the upper respiratory tract and lungs may result from accidental or chronic occupational exposure to the dust of this product. Dust may also cause lung damage when inhaled.**

Carcinogenicity: NTP? **No** IARC Monographs? **Vol. 68 (1997), In Group 3. (Not classifiable as to carcinogenicity to humans.)** OSHA Regulated? **No**

Signs and Symptoms of Exposure: **Exposure may result in coughing, wheezing, shortness of breath, tightness in chest, irritation of the upper respiratory tract, and damage to lung tissue.**

Medical Conditions Generally Aggravated by Exposure: **Pre-existing asthma, bronchitis, emphysema and other lung and respiratory ailments may be aggravated by exposure to dust.**

Emergency and First Aid Procedures: **Material is non-poisonous. Eyes – Flush with copious amounts of cool, fresh water for 15 minutes. Inhalation – Blow nose, rinse mouth, drink water to clear throat. Remove to fresh air. If symptoms persist, see a physician promptly.**

Section VII – Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled: **Mist lightly with water, sweep up and transfer to a closed container, or vacuum with equipment fitted with an effective filter. Transfer any broken bags to new bags without emptying original bags.**

Waste Disposal Method: **Bury as non-toxic waste in an approved landfill.**

Precautions to be Taken in Handling and Storing: **Use techniques that minimize generating dust.**

Other Precautions: **Material, when wet, may be slippery on a smooth flooring. Use caution.**

Section VIII – Control Measures

Respiratory Protection: **Use an approved dust mask, such as a particulate filter respirator.**

Ventilations	Local Exhaust: Recommended	Special, Other:
	Mechanical (General): Vacuum all spills	Use filter-equipped vacuum to remove dust; do not blow off with compressed air.

Protective Gloves: **Not Required**

Eye Protection: **Goggles recommended.**

Other Protective Clothing or Equipment: **Not required.**

Work/Hygienic Practices: **Avoid vigorous shaking of bags. Clean clothes with vacuum hose, not by blowing off.**