

Pennsylvania Glass Sand Corp.
"SDS for Silica"

1 -Section I (General Information)

MANUFACTURER'S NAME:

Pennsylvania Glass Sand Corp.

EMERGENCY TELEPHONE NUMBER:

(304) 258-2500

ADDRESS (NUMBER, STREET, CITY, STATE, ZIP):

Route 522 North, P.O. Box 187
Berkeley Springs, WV 25411

CHEMICAL NAME AND SYNONYMS:

Silicon Dioxide (SiO₂)

TRADE NAME AND SYNONYMS:

Silica
Min-U-Sil
Penn Sand
Q-Rok
Supersil

CHEMICAL FAMILY:

Silica sand
Quartz
Flint
Crystalline silica
Free Silica

FORMULA:

NA

DATE OF PREPARATION:

April, 1985

PREPARED BY:

NA

DISCLAIMER:

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein.

PLAINTIFF'S EXHIBIT

H&G-6

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2 -Section II - Hazardous Ingredients

MATERIAL
Silica (Quartz) 99.2 to 99.8 % free silica
PEL = 0.1 mg SiO₂ per cu m. of air.
Formula: (10 mg/m³) / (%SiO₂ + 2)
(See OSHA regulations (CFR) Title 29, 1910.1000 Table Z-3 for respirable quartz)

3 -Section III - Physical Data

BOILING POINT(INDICATE IF "F" OR "C"):
4,046 F.

VAPOR PRESSURE(mm Hg):
NA

POR DENSITY (AIR = 1):
NA

SPECIFIC GRAVITY (H₂O=1):
2.65 (H₂O = 1)

PERCENT VOLATILE BY VOLUME (%):
NA

EVAPORATION RATE (= 1):
NA

SOLUBILITY IN WATER:
Insoluble in water.

APPEARANCE AND ODOR:
Sand - granular, crushed, or ground. No odor or taste.

4 -Section IV - Fire and Explosion Hazard Data

FLASH POINT (METHOD USED):
NA

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4 -Section IV - Fire and Explosion Hazard Data (continued)

FLAMMABLE LIMITS:

LEL: NA

UEL: NA

EXTINGUISHING MEDIA:

NA

SPECIAL FIRE FIGHTING PROCEDURES:

NA

UNUSUAL FIRE AND EXPLOSION HAZARDS:

NA

5 -Section V - Health Hazard Data

THRESHOLD LIMIT VALUE:

EL = 0.1 mg SiO₂ per cu m. of air.

EFFECTS OF OVEREXPOSURE:

Harmful if inhaled.

Repeated and prolonged inhalation may cause delay injury to lungs (silicosis)

Symptoms: Undue breathlessness, cough, sputum production.

EMERGENCY AND FIRST AID PROCEDURES:

None

6 -Section VI - Reactivity Data

STABILITY (choose one): () UNSTABLE

(X) STABLE

CONDITIONS TO AVOID:

NA

INCOMPATIBILITY (MATERIALS TO AVOID):

Hydrofluoric acid (HF), in which silica will dissolve and produce the corrosive gas silicon tetrafluoride (SiF₄).

HAZARDOUS DECOMPOSITION PRODUCTS:

NA

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6 -Section VI - Reactivity Data (continued)

HAZARDOUS POLYMERIZATION (choose one): ☐ MAY OCCUR
☒ WILL NOT OCCUR

CONDITIONS TO AVOID:

NA

7 -Section VII - Spill or Leak Procedures

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Use dustless methods - vacuum and place into closable container for disposal, or flush with water. Do not dry sweep. Wear protective equipment specified in Section VIII.

WASTE DISPOSAL METHOD:

Dispose in accordance with federal, state and local regulations.

8 -Section VIII - Special Protection Information

RESPIRATORY PROTECTION (SPECIFY TYPE):

Use NIOSH approved dust mask respirator under appropriate OSHA Standards and regulations.

VENTILATION:

Use sufficient local exhaust to reduce the dust to the PEL for respirable quartz.

PROTECTIVE GLOVES:

Optional.

EYE PROTECTION:

Protect from dust particles.

OTHER PROTECTIVE EQUIPMENT:

None

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9 -Section IX - Special Precautions

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Use dustless systems for handling, storage, and clean up so that air borne dust does not exceed the PEL. Use adequate ventilation and dust collection. Practice good housekeeping. Do not permit dust to collect on walls, floors, sills, ledges, machinery, or equipment. Maintain, clean, and test respirators in accordance with OSHA regulations. Maintain and test ventilation and dust collection equipment. Wash clothing which has become dusty; do not beat the dust from the clothing. We recommend that smoking be prohibited in all areas where respirators must be used. WARN YOUR EMPLOYEES (AND YOUR CUSTOMER-USERS IN CASE OF RESALE) BY POSTING AND OTHER MEANS OF THE HAZARD AND OSHA PRECAUTIONS TO BE USED. PROVIDE TRAINING FOR YOUR EMPLOYEES ABOUT THE OSHA PRECAUTIONS.

OTHER PRECAUTIONS: