

Pool Clay Co. = Pool Clay Co

Silicon Dioxide

MATERIAL SAFETY DATA SHEET
CENTRAL SILICA COMPANY
ZANESVILLE, OHIO

G. ADDRESS:

806 MARKET ST.
ZANESVILLE, OHIO
43701

IDENTIFICATI

A. Product Name: All Products
B. Manufacturer: Central Silica Company

D. Emergency Phone Number(s)

Business: 614-452-2775
Other: 614-454-3147

E. Chemical Name(s) & Molecular Formula(s).
Give Specific IUPAC Name(s).
~~Central Silica Company~~
Silica

G. CAS No.(s)

14808-60-7

F. Synonyms: Quartz; Coesite; Cristobalite; Tridymite

H. Chemical Family

SiO₂ (99%)

INGREDIENTS

A. MATERIALS OR COMPONENTS

B. % w/w

C. CAS#

D. HAZARD DATA (TLV, LD50, LC50, etc.)

Include all carcinogens at levels >0.1% and all other ingredients at levels >1.0%.

N/A

N/A

N/A

N/A

REQUIREMENTS

A. Post area where sand is used warning of possible lung injury from repeated inhalation of respirable silica dust. Follow OSHA standard for free silica.

B. Handling: Wear NIOSH, MSHA or OSHA approved respirator. Dampen sand to minimize dust.

C. Storage: Same as A

PROPERTIES

A. Boiling Point/Range: 2230 °C 4046 °F
B. Melting Point: 1600 °C 2912 °F
C. Freezing Point: N/A °C °F
D. Molecular Weight (Calculated): 60.1

E. Specific Gravity (H₂O=1): 2.65 @ °C °F
F. Vapor Pressure (mm Hg): N/A @ °C °F
G. Vapor Density (Air=1): Essentially 0
H. pH: 6-8

I. Solubility in H₂O: Insoluble
J. % Volatiles by Volume: N/A
K. Evaporation Rate: N/A
 Ether = 1 Water = 1 Butylacetate = 1

L. Appearance and Odor: White or tan color granular or powder consistency
M. Other: N/A

EXPLOSION DATA

A. Flash Point: Not Combustible
Test Method: _____
B. Flammable Limits: N/A
Lower: _____ Upper: _____
C. Autoignition Temperature/Fire Point: N/A °C °F

D. EXTINGUISHING MEDIA: N/A
 Water-spray Water-fog Water-stream CO₂ Dry chemical Alcohol foam Foam Earth or sand

E. SPECIAL FIRE FIGHTING PROCEDURES
 Do not enter building Allow fire to burn Water may cause frothing Do not use water None

F. UNUSUAL FIRE AND EXPLOSION HAZARDS
 Dust explosion hazard Sensitive to shock Contact with _____ Temperature _____ None Other (specify): _____

REACTIVITY DATA

A. STABILITY: Stable Unstable
B. CONDITIONS CONTRIBUTING TO INSTABILITY:
 Thermal decomposition Photo degradation Polymerization Contamination None

C. INCOMPATIBILITY - Avoid contact with:
 Strong acids Strong alkalis Strong oxidizers Reducers Water None Other (specify): _____

D. HAZARDOUS DECOMPOSITION PRODUCTS - THERMAL AND OTHER (list):
N/A

E. CONDITIONS TO AVOID: (List conditions attacked by hydrogen fluoride (or hydrofluoric acid))
 Heat Open flames Sparks Ignition sources None Other (specify): _____

SPILL LEAK

A. STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:
 Flush with water Absorb with sand or inert material Neutralize Sweep or scoop up and remove Keep upright. Evacuate enclosed spaces. Prevent spread or spill
 Dispose of immediately Other (specify): from area. Use approved dustless methods (water vacuum)

B. WASTE DISPOSAL METHOD (Specific):
Any secured sanitary landfill. Dampen waste to reduce airborne dust. If dust is generated, use NIOSH, MSHA, or OSHA approved respirator.

SiO₂ not hazardous waste under 40 CFR Part 261 EPS Regulations.

CONTINUED ON REVERSE SIDE

1. Applicable

A. PRIMARY ROUTE(S) OF ENTRY:

Skin absorption Inhalation Ingestion

B. EXPOSURE LIMITS (Specify if TLV/TWA, Ceiling (c), PEL, etc.) TLV for Respirable dust: 10 milligrams silica per cubic meter of air divided by percent SiO₂ + 2 averaged over 8 hr. work shift. Total Dust: Same except 30 mg/m³. OSHA 19 10.100 Table 2-3 Other:

ACGIH 19 _____

C. INGESTION

Acute: None - But recommend seeking medical advice
Chronic: None - But recommend seeking medical advice

D. DERMAL:

Acute: Irritant Corrosive Sensitizer Defatler None Other
Chronic: Irritant Corrosive Sensitizer Defatler None Other
Gloves Optional
Gloves Optional

E. EYE:

Acute: Severe Irritant Mild Irritant Corrosive None Other
Chronic: Severe Irritant Mild Irritant Corrosive None Other
Recommend Full Eye Protection
Same as above

F. INHALATION:

Acute: Irritant Allergen Asphyziant Sensitizer Edema None
 Narcotic effect Cyanosis Other: See B&H this section
Chronic: Irritant Allergen Sensitizer Carcinogen None Other: See B&H this section

G. SYSTEMIC:

Acute: Specific effect(s) Cough and shortness of breath. Pulmonary distress.
Chronic: Specific effect(s)

H. OTHER TOXIC EFFECTS (include Aquatic Toxicity and no effect level): Repeated inhalation of crystalline silica or quartz dust may cause silicosis, a form of disabling, progressive and sometimes fatal pulmonary fibrosis characterized by the presence of typical nodulations in the lungs. Good industrial hygiene ventilation practices should be used to reduce environmental concentrations to the permissible exposure level or NIOSH, MSHA, or OSHA approved respiratory protection should be used to avoid inhaling dust.

Effects of Exposure

FIRST AID

PROTECTION INFORMATION

RECOMMENDATIONS

A. INGESTION Induce vomiting Do NOT induce vomiting Give plenty of water Get medical attention No ill effects Other (specify): Seek Medical Advice

B. SKIN CONTACT No ill effect or injury expected Wash area, remove contaminated clothing immediately. Wash area, remove garment within reasonable time. Flush area remove clothing immediately. Report to Medical Dept.

C. EYE CONTACT Flush with plenty of water for at least 15 minutes Get medical attention No ill effects Other (specify): See Attached Addendum

D. INHALATION Remove to fresh air If not breathing, provide appropriate life support Give oxygen Get medical attention No ill effects Other (specify):

A. VENTILATION REQUIREMENTS - Always maintain exposure below permissible exposure limits
 Consult an industrial hygienist or environmental health specialist. Local exhaust Use with adequate ventilation Check for air contaminant and oxygen deficiency (Abrasive Blasting)
 Store in well ventilated area None required Other (specify): ANSI Z-9.2-1960 OSHA 1910:94(a)

B. EYE Safety glasses Face shield Goggles
C. HAND (GLOVE TYPE) Butyl rubber Polyvinyl alcohol Cloth Leather
 Safety glasses Goggles Polyvinyl chloride Neoprene Natural rubber Polyethylene Other (specify): Gloves Optional

D. RESPIRATOR TYPE - Use only NIOSH/MSHA approved equipment
 Self-contained Supplied air Can or cartridge gas or vapor Filter: dust, fume, mist Other (specify): See Attached Addendum

E. OTHER PROTECTIVE EQUIPMENT: N/A
 Rubber boots Apron Other (specify):

A. PRECAUTIONS
 Wash thoroughly after handling Do not get in eyes, on skin or clothing Do not breathe dust Keep container closed Keep away from heat, sparks and open flames Store in tightly closed containers
 Do not store near combustibles Keep from contact with clothing and other combustible materials Empty container may contain hazardous residues Use explosion proof equipment Other (specify): See Attached Addendum

B. TRANSPORTATION & OTHER PRECAUTIONS
Advise and post warning to employees where product is used, handled, or stored. Follow existing OSHA standards or hereafter amended, modified or adopted.

Prepared by: A. Jeffrey Pitcock Date: 5/13/86 Address: 806 Market St. Zanesville, Ohio 43701 Phone: 614-452-2775