

MATERIAL SAFETY DATA SHEET

DIATOMACEOUS EARTH, SILICA CEMENT INGREDIENT

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: Diatomaceous Earth, Silica Cement Ingredient

PRODUCT SYNONYMS: Diatomite, Silica

PRODUCT USE: Cement ingredient

MANUFACTURED BY: GF Industries
1000 East Valencia Drive
Fullerton, California 92831

SECTION 2. COMPOSITION INFORMATION ON INGREDIENTS

INGREDIENTS: Diatomaceous Earth, Silica Cement Ingredient is composed of the remains of diatoms from ancient seabeds. Its chemical composition is:

<u>Ingredient</u>	<u>%</u>	<u>CAS NO.</u>	<u>OSHA PEL (mg/m3)</u>	<u>ACGIH TLV (mg/m3)</u>
Silica Dioxide	73-83	7 631-86-9		
Crystalline Silica (quartz)	18-43	14808-60-7	0.14 (respirable dust)*	0.05 (respirable dust)
Amorphous Silica	25-35		15 (total dust)	10 (total dust)
Cristobalite	3-32		0.14 (respirable dust)*	N/A
Heavy Metals	< 1	1309-37-1	5.0 (total)	5.0 (total)

*Note: Using the formula $10 / \% \text{ Quartz} + 2 (\% \text{ Cristobalite} + 2) = \text{PEL}$, the PEL is approximately 0.14 mg/m3 (*using midpoint values for Quartz and Cristobalite*)

SECTION 3. HAZARDS IDENTIFICATION

DESCRIPTION: Usually shipped in bulk, Diatomaceous Earth, Silica Cement Ingredient is a tan colored diatomaceous earth in a form that ranges from six inch chunks to powder. Do not mix, pour or work with this product in enclosed areas without appropriate breathing protection. Stay upwind when using outside.

POTENTIAL HEALTH EFFECTS

INHALATION: This product contains crystalline silica (Quartz). Prolonged exposure to respirable crystalline silica is known to cause lung cancer or silicosis, a scarring of the lungs, which may be disabling. While individual susceptibility to a given exposure to respirable silica dust may vary, the risk of contracting cancer or silicosis and the severity of the diseases are clearly related to the concentration and duration (usually years) of exposure. Exposure associated with proper uses of this product(s) should be well below the permissible exposure limits; however, employers should perform workplace testing to determine actual exposure levels.

SKIN CONTACT: Prolonged handling may cause dry skin.

EYE CONTACT: Dust can cause eye irritation.

INJECTION: Not applicable under normal conditions of use.

SECTION 4. FIRST AID MEASURES

INHALATION: Remove to fresh air. If bronchial irritation occurs, keep employee away from dust until irritation abates.

SKIN IRRITATION: Wash affected areas with soap and water. Use lotion before and after exposure.

EYE IRRITATION: Remove contact lenses. Flush eyes, including under eyelids with large amounts of water. If irritation persists, get medical attention.

INJECTION: All health effects mentioned are chronic.

SECTION 5. FIRE FIGHTING MEASURES

FLASH POINT: Not applicable.

HAZARDOUS COMBUSTION PRODUCTS: None.

FLAMMABLE LIMITS: Not combustible.

AUTOIGNITION TEMPERATURE: Not applicable.

FIRE EXTINGUISHING MEDIA: Not applicable.

SECTION 6. ACCIDENTIAL RELEASE MEASURES

Use dustless vacuum. Do not sweep. If needed, use water spray to wet down and minimize dust generation. Wear approved respirator if necessary.

SECTION 7. HANDLING AND STORAGE

Do not work in closed space with visible dust present without a respirator. Use dust control techniques and practice good housekeeping. Do not use this product for sandblasting.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Provide local exhaust or enclosures as necessary to meet OSHA requirements for dust control. Use wet methods, if appropriate, to reduce generation of dust.

SKIN PROTECTION: None required.

RESPIRATORY PROTECTION: Wear appropriate NIOSH approved respirator with dust filter when permissible exposure limit (PEL) to dust may be exceeded.

HAZARD COMMUNICATION: Warn workers of the hazards mentioned herein, tell them how to control dust and provide proper Personal Protection Equipment (PPE).

EYE PROTECTION: Recommend goggles or safety glasses for nuisance dust.

SYMPTOMS OF EXPOSURE: There are few symptoms of exposure; possibly coughing and throat irritation from prolonged or excessive exposure.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: No odor, light tan to brown soil.

PHYSICAL STATE: Solid.

BOILING POINT: Not applicable.

MELTING POINT: ~ 1500°F.

PH: ~ 7

VAPOR PRESSURE: Not applicable.

SOLUBILITY IN WATER: ~ 1 %

VAPOR DENSITY: Not applicable.

SPECIFIC GRAVITY: ~ 2.5

SECTION 10. STABILITY AND REACTIVITY

STABILITY: Crystalline silica is incompatible with halogens (chlorine, fluorine etc.) and oxidizing agents. Silica will dissolve in hydrofluoric acid and produce toxic gas.

CONDITIONS TO AVOID: Visible dust.

INCOMPATIBILITY (MATERIALS TO AVOID): Halogens, acid and strong oxidizers.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

CRYSTALLINE SILICA: Crystalline silica is classified by the International Agency for Research of Cancer (IARC) as a probable human carcinogen (Group 2A) with animal evidence sufficient. Respirable crystalline silica has been classified by the National Toxicology Program (NTP) as a substance which may reasonably be anticipated to be a carcinogen.

SECTION 12. DISPOSAL CONSIDERATIONS

This product is not considered hazardous waste under Federal Hazardous Waste Regulations 40 CFR 261. Please be advised, however, state and local requirements for waste disposal may be different from federal regulations. Dispose of as inert solid in a landfill or by other procedures in accordance with local, state and federal regulations.

SECTION 13. TRANSPORT INFORMATION

This product is not a DOT hazardous material.

SECTION 14. REGULATORY INFORMATION

OSHA: Dust generated from mixing, applying or otherwise using this product may be hazardous if inhaled.

TSCA: This product is not TSCA regulated.

SARA 313: None.

RCRA: If discarded in its purchased form, this product is not classified as a hazardous waste.

CALIFORNIA PROP 65: Airborne particles of respirable crystalline silica are known by the State of California to cause cancer.

CANADIAN WHMIS: This product is not a controlled product under WHMIS.

SECTION 15. DISCLAIMERS OF LIABILITY AND OTHER INFORMATION

HMIS RATING: Health – 1; Flammability – 0; Reactivity – 0

MSDS REVISION SUMMARY: This MSDS is in ANSI format, with new information in many sections. Read this information carefully before using this product.

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