

SECTION 1 – PRODUCT INFORMATION

Product Name(s): Granite rock countertops including Pure Black, Almond Mauve, Tan, Dark Gray, Maple Red, Baltic Cream, Counter White, Serpentine Green, Majestic Mauve

Producer's Name: Imported by Granite Rock Company

Address: 350 Technology Dr., Watsonville, CA 95076
P.O. Box 50001, Watsonville, CA 95077-5001

Phone Number: (831) 768-2000

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SECTION 2 – HAZARDOUS INGREDIENT(S)

| Chemical Names | CAS Number | Quantity (Percent) | Formula | Exposure Limits in Air | | |
|-----------------------------|------------|--------------------|------------------|------------------------------|---|--------------------------|
| | | | | ACGIH TLV TWA ⁽¹⁾ | MSHA/OSHA PEL ⁽²⁾ | NIOSH REL ⁽³⁾ |
| Crystalline silica (quartz) | 14808-60-7 | 2.4 - 44.2 | SiO ₂ | 0.025 mg/m ³ | $\frac{10 \text{ mg/m}^3}{\% \text{SiO}_2 + 2}$ | 0.05 mg/m ³ |

(1) ACGIH TLV: American Conference of Industrial Hygienist Threshold Limit Value (TLV) time-weighted average (TWA).

(2) OSHA/MSHA PEL: Occupational Safety and Health Association/Mining Safety and Health Association Permissible Exposure Limit for an 8-hour time weighted average.

(3) NIOSH REL: National Institute for Occupational Safety & Health, Recommended Exposure Limit

SECTION 3 – HAZARD IDENTIFICATION

Overview

Warning! Do not breathe dust containing crystalline silica. Chronic overexposure may cause lung damage and may lead to lung cancer. When handling, cleaning, or cutting, wear proper respiratory protection (Section 8) and use dustless procedures including vacuum and/or water (Section 7).

Potential Health Effects

Inhalation: Inhalation of dust containing crystalline silica can potentially lead to:

Silicosis: Acute silicosis may occur under conditions of extremely high respirable crystalline silica (quartz) exposure. Silicosis is a fibrosis (scarring) of the lungs, and may be progressive.

Lung Cancer: Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans.

Autoimmune disorder: There is evidence that exposure to respirable crystalline silica or silicosis is associated with the increased incidence of scleroderma, an autoimmune disorder.

Tuberculosis: Several studies indicate that silicosis increases the risk of tuberculosis.

Bronchitis/Emphysema: Respiratory ailments including bronchitis and emphysema may be aggravated by exposure to respirable crystalline silica.

Eye contact: Crystalline silica (quartz) may cause abrasion, irritation, redness and/or watering of the eyes.

Skin contact: Not applicable.

Ingestion: Not applicable.

Chronic: The adverse health effects mentioned above (silicosis, cancer, scleroderma, and tuberculosis) are considered chronic effects.

Reproductive: Reproductive toxicity has not been demonstrated.

SECTION 4 – FIRST-AID MEASURES

Eye contact: Gently flush any particles from the eye with clean water. Seek medical aid if irritation persists or develops.

Skin contact: Wash with soap and water. Seek medical aid if irritation persists or develops.

Inhalation: Remove from exposure. Seek medical aid if respiratory difficulty persists or develops.

Ingestion: Seek medical aid if discomfort is experienced.

SECTION 5 – FIRE AND EXPLOSION

Will not burn or explode under any conditions. Non-flammable and non-explosive.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spill Response Procedures: Use dustless methods (such as a vacuum or water hose) for cleanup. Do not dry sweep. Wear protective equipment as described in Section 8.

Preparing Waste for Disposal: No special procedures required. Dispose of according to local, state and federal regulations. Not classified as a hazardous waste by the Resource Conservation and Recovery Act.

SECTION 7 – HANDLING AND STORAGE

Ventilation and Engineering Controls: Do not breathe dust. Dust suppression controls such as water sprays or dust collection controls such as vents or baghouses should be used where dust generation results from handling. Practice good housekeeping-do not allow dust to collect on walls, floors, ceilings.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: NIOSH/MSHA approved dust respirators with a N95 rating or better should be used where dust levels exceed or are likely to exceed exposure levels defined in Section 2. Respirator use must comply with applicable MSHA or OSHA standards which include a provision for fit testing, cleaning, training in correct usage and a fitness test for respirator use. See NIOSH Publication 2008-140 and www.cdc.gov/niosh/npptl/topics/respirators/ for more information.

Eye Protection: Safety glasses with side shields should be worn as minimum protection. Should excessively dusty conditions be present, use goggles or face shield.

Gloves: Gloves of any material can be used.

Other Clothing: No special requirements.

Work Practices: Avoid generating dust; use water to wet surfaces.

Hygiene Practices: Wash dust-exposed skin with soap and water.

Other Handling Requirements: Contain material in discrete quantities to avoid particles posing slip/trip hazard.

Protective Measures During Maintenance of Contaminated Equipment: Use respiratory protection, eye protection and gloves if dust is likely to be generated.

SECTION 9 – PHYSICAL PROPERTIES

Vapor density (air=1): None Melting point: 3,100°F

Specific gravity: 2.78 Boiling point: 4,046°F

Solubility in water: Insoluble Evaporation rate: None

Vapor pressure: None

Appearance and odor: Variety of colors, no odor

How to detect this substance: X-ray diffraction-NIOSH Methods 7500 & 7501

SECTION 10 – STABILITY AND REACTIVITY

Stability: Aggregates and aggregate dust products are stable, will not polymerize, and is known to be compatible with all other substances except strong oxidizing agents such as fluorine, chlorine trifluoride, or oxygen difluoride.

Hazardous Decomposition Products: Silica-containing respirable dust particles may be generated by handling and transport.

SECTION 11 – TOXICOLOGICAL INFORMATION

Crystalline silica is a naturally occurring substance found in soil and rock formations. Crystalline silica is present in trace amounts in the atmosphere air as particulate. Crystalline silica is one of several crystalline polymorphs (including trydimite, cristobalite) of silicon dioxide. When heated to 870°C, crystalline silica transforms to trydimite, and when heated to 1,470°C it can transform to cristobalite. The OSHA PEL for trydimite and cristobalite are one-half the PEL for crystalline silica. Chronic or ordinary silicosis is the most common form of silicosis which can occur after many years of exposure to relatively low levels of airborne respirable dust.

Crystalline silica is listed by the National Toxicology Program in a category which may reasonably be anticipated to be a carcinogen, and by the International Agency for Research on Cancer (IARC) as a Group I carcinogenic. After years of study, the non-governing IARC concluded in 1997 that there was "sufficient evidence in humans for the carcinogenicity of crystalline silica in the forms of quartz or cristobalite from occupation sources." The IARC noted that carcinogenicity was not detected in all industries, and that toxicity may depend on "external factors affecting its biological activity or distribution of its polymorphs."

Crystalline silica is listed by the Governor of the State of California, under Proposition 65, as requiring the following warning: "Detectable amounts of chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm may be found in this product."

SECTION 12 – ECOLOGICAL INFORMATION

There is no data that shows crystalline silica (quartz) is toxic to birds, fish, invertebrates, microorganisms or plants.

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