

MATERIAL SAFETY DATA SHEET

SECTION I

MOUNTAIN STONE
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SECTION II – HAZARDOUS INGREDIENTS/ IDENTITY INFORMATION

Cas #	Component	OSHA Pel
-		
14808-60-7	Crystalline Silica (Quartz)	30mg/ m3 (10mg respirable dust/ m3)
-		
65997-15-1	Portland Cement	15mg/ m3 (5mg respirable/ m3)
-		
13397-24-5	Gypsum	15mg/ m3 (5mg respirable/ m3)
-		
1309-37-1	Iron Oxide	5/ mg/ m3
-		
N/A	Non-Hazardous	

*NIOISH REL (8-hour TWA) = 0.05 mg respirable quartz dust/ m3

This a cured product with few hazards. If cutting or grinding takes place dust may occur exposing the individual to hazards from the above mentioned components.

SECTION III – PHYSICAL/ CHEMICAL CHARACTERISTICS

Cured concrete product of various shapes, sizes and colors.

Boiling Point: N/A Specific Gravity (H₂O = 1): N/A
Vapor Pressure: N/A Melting Point: N/A
Vapor Density: N/A Evaporation Rate: N/A (Butyl Acetate = 1)
Solubility in Water: Not Soluble
Appearance an Odor: Odorless Solid

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): N/A

Flammable Limits: N/A LEL: N/A UEL: N/A
Extinguishing Media: N/A
Special Fire Fighting Procedures: None

SECTION V – REACTIVITY DATA

Stability: Unstable: Stable: X Conditions to avoid: None
Incompatibility (Materials to Avoid): None
Hazardous Decomposition or Byproducts: None

SECTION VI – HEALTH HAZARD DATA

Route(s) to Entry:

Inhalation? Yes Skin? No Ingestion Yes

Health Hazards (Acute and Chronic):

Dry sawing or grinding of concrete masonry products may result in the release of respirable crystalline quartz. Prolonged exposure to respirable crystalline quartz may cause delayed (chronic) lung injury (silicosis). Acute or rapidly developing silicosis may occur in a short period of time in heavy exposure. Silicosis is a form of disabling pulmonary fibrosis, which can be progressive and may lead to death.

Carcinogenicity:

NTP: Yes

The National Toxicology Program (NTP) published its Sixth Annual Report on Carcinogens which concludes that “silica, crystalline (respirable)” may reasonably be anticipated to be a carcinogen. The NTP conclusion is based on sufficient evidence for the carcinogenic of respirable crystalline silica in experimental animals and limited evidence in humans.

LARC Monographs? Yes

LARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans (volume 42, 1987) concludes that there is sufficient evidence for the carcinogenicity of crystalline silica to experimental animals, and that there is limited evidence of the carcinogenicity of crystalline silica to humans. LARC Class 2A Signs and Symptoms of Exposure: Undue breathlessness, wheezing, cough and sputum production.

Medical Conditions Generally Aggravated by Exposure:

Pre-existing lung disease such as emphysema or asthma: Pulmonary function may be reduced by inhalation of respirable crystalline silica. Also lung scarring produced by such inhalation may lead to a progressive massive fibrosis of the lung which may aggravate other pulmonary conditions and diseases and which increases susceptibility to pulmonary tuberculosis. Progressive massive fibrosis may be accompanied by the right heart enlargement, heart failure and pulmonary failure. Smoking aggravates the effects of exposure.

Emergency and First Aid Procedures:

For sand in eyes during dry sawing or grinding operations, immediately flush generously with water for 15 minutes. If irritation persists, seek medical attention. For gross inhalation, remove person immediately to fresh air, give artificial respiration as needed, and seek medical attention as needed.

SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken in Case Material is Released or Spilled:

When dry sawing or grinding, use dustless systems for handling, storage and clean-up so that airborne dust does not exceed the PEL. Use adequate ventilation and dust equipment. Practice good housekeeping. Do not permit dust to collection on walls, floors, sills, ledges, machinery or equipment. Maintain clean and fit test respirators in accordance with OSHA regulations. Maintain and test ventilation and dust collection equipment. Wash or vacuum clothing which has become dusty. See also control measures in

SECTION VIII

Waste Disposal Method:

Normal breakage may be picked up and discarded as common waste. Residue from dry sawing and grinding operations should be disposed of in accordance with Federal, State and Local regulations. Precautions to be Taken in Handling and Storing: None

Other Precautions:

See OSHA Hazard Communications Rule 29 CFT Sections 1970.1200, 1915.99, 1917.28, 1918.90, 1926.39 and 1928.21, and state and local worker or community “right to know” laws and regulations. We recommend that smoking be prohibited in all areas where respirators must be used. **WARN YOUR EMPLOYEES (AND YOUR CUSTOMERS – 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 RECAUTIONS.**

See also American Society for Testing and Materials (ASTM) Standard Practice E1132-86, “Standard Practice for Health Requirements Relating to Occupational Exposure to Quartz Dust.”

SECTION VII – CONTROL MEASURES

Respiratory Protection

The following chart specifies the type of respirators which may provide respiratory protection for crystalline silica.

**RESPIRATORY PROTECTION FOR CRYSTALLINE SILICA
CONDITION MINIMUM RESPIRATORY PROTECTION***

Particulate Concentration

Up to 5 x PEL Any dust respirator

Up to 10 x PEL Any dust respirator, except single-use or quarter-mask respirator.

Any fume respirator or high efficiency particulate filter respirator.

Any supplied-air respirator.

Up to 50 x PEL A high efficiency particulate filter respirator with a full facepiece.

Any supplied-air respirator with a full facepiece, helmet, or hood.

Any self-contained breathing apparatus with a full facepiece.

Up to 500 x PEL or entry and escape from unknown concentrations Self-contained

breathing apparatus with a full facepiece operated in pressure-demand or other positive mode.

A combination respirator which includes a Type C supplied-air respirator with a full facepiece operated pressure-demand or other positive pressure continuous-flow mode and an auxiliary self contained breathing apparatus operated in pressure-demand or other positive pressure mode.

*Only NIOSH-approved or MSHA-approved equipment should be used (see 29 CFR 1910.134)

See also ANSI Standard Z88.2-1980 "Practices for Respiratory Protection."

Ventilation:

Local Exhaust: When dry sawing or grinding concrete masonry products, use sufficient local exhaust to reduce the level of respirable dust to the PEL. See ACGIH "Industrial Ventilation, a manual of

Recommended Practice, " latest edition
Mechanical

See "Other Precautions" under Section VII.

Special

See "Other Precautions" under Section VII.

Other

See "Other Precautions" under Section VII.

Protective Gloves

Optional

Eye Protection

When sawing or grinding concrete masonry products, wear protective shield or tight fitting goggles (safety glasses).

Other Protective Clothing or Equipment

Optional

Work/ Hygienic Practices

Avoid creating and breathing dust. See "Other Precautions" under Section VII.

However, no guarantee or

warranty of any kind, express or implied, is made with respect to the information

contained herein. We accept no responsibility

and disclaim all liability for any harmful health effects, which may be caused by

exposure to airborne dust particles created by

dry sawing or grinding of our products. Customers/ users of concrete masonry products

comply with all applicable health

and safety laws, regulations, and orders.

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information.

The manufacturer makes no representation and assumes no liability for any direct, incidental or consequential damages resulting from its use.