



Material Safety Data Sheet

Nichiha Fiber Cement Products

Brick, Stone & Block Panels

Contact	1
Hazardous Ingredients	1
Physical / Chemical Characteristics	1
Fire & Explosion Hazard Data	1
Reactivity Data	2
Health Hazard Data	2
Precaution for Safe Handling and Use	3
Control Measures	3

I Contact

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II Hazardous Ingredients / Identity Information

Hazardous Components	CAS#	ACGIH TLV (mg/m ³) (resp./total)	NIOSH REL (mg/m ³) (resp./total)	OSHA PEL (mg/m ³) (resp./total)	Proportion (weight %)
Calcium Silicate	1344-95-2	NA/10	5/10	5/15	30~55
Natural Organic Fibers	9004-34-6	NA/10	NA/NA	5/15	10~20
Crystalline Silica (Quartz)	14808-60-7	0.025/NA	0.05/NA	10 ÷ (%SiO ₂ +2)* 30 ÷ (%SiO ₂ +2)**	3~18

*Respirable Total ** Total Dust
 These PEL's were calculated using 29CFR§1910 (Code of Federal Regulation, "OSHA") Table Z-3, assuming dust generated contains 100% Silica (most conservative).

III Physical / Chemical Characteristics

Boiling Point: N/A **Specific Gravity (H₂O=1):** 1.0±0.2
Vapor Pressure (mm Hg): N/A **Melting Point:** N/A
Vapor Density (AIR=1) : N/A **Evaporation Rate (Butyl Acetate=1)** N/A
Solubility in Water: Nil **Reactivity in Water:** Nil
Appearance and Odor: Sheet - No Odor

IV Fire and Explosion Hazard Data

Flashing Point: N/A
Flammable Limits: LEL: N/A UEL: N/A
Extinguishing Media: N/A
Special Fire Fighting Procedures: None
Unusual Fire and Explosion Hazard: None

Reactivity Data & Health Hazard Data

V Reactivity Data

Stability:	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">Unstable</td> <td style="width: 50%;"></td> </tr> <tr> <td style="text-align: center;">Stable</td> <td style="text-align: center;">X</td> </tr> </table>	Unstable		Stable	X	Conditions to Avoid: N/A
Unstable						
Stable	X					
Incompatible (Materials to Avoid): Strong Acids						
Hazardous Decomposition Or Byproduct: None						
Hazardous Polymerization:	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">May Occur</td> <td style="width: 50%;"></td> </tr> <tr> <td style="text-align: center;">Will Not Occur</td> <td style="text-align: center;">X</td> </tr> </table>	May Occur		Will Not Occur	X	Conditions to Avoid: N/A
May Occur						
Will Not Occur	X					

VI Health Hazard Data

Warning Label Text:

This fiber cement product contains forms of silica and natural organic fiber. This product does not pose a cancer risk in the manufactured state. However, dust generated should be controlled, follow the recommendations on the MSDS. Inhalation of crystalline silica dust can cause silicosis and lung cancer.

Route(s) of Entry:

Inhalation?	Yes	Skin?	No
Ingestion?	No	Eyes?	Yes

Health Hazards (Acute and Chronic):

Acute - Dust may irritate upper respiratory system and may abrade skin and eyes. Chronic - dust may contain silica in both respirable and inhalable size fractions; exposure to crystalline silica causes silicosis, lung cancer and pose other significant health risks.

WARNING:

This product contains silica. Inhalation of crystalline silica dust can cause silicosis, a potentially disabling lung disease, which can elevate the risk of other diseases. When drilling, cutting, sawing, or abrading product during installation or handling, use best work practices to reduce airborne dust concentrations. Work outdoors where feasible, otherwise use mechanical ventilation when possible. Wear a dust mask or, if dust may exceed PEL, use NIOSH approved respirator, warn others in the area. For further information, refer to Material Safety Data Sheet or consult employer.

Carcinogenicity:

This product does not have a cancer risk in the manufactured state. Crystalline silica dust generated during handling and installation can cause lung cancer.

NTP?	Yes (respirable silica)	OSHA Regulated?	Yes (silica dust)
LARC Monograph?	Group I (silica)		

Sign and Symptoms of Exposure:

Excessive exposure to product dust may cause upper respiratory irritation.

Medical Condition Generally Aggravated by Exposure:

Pre-existing upper respiratory or lung disease such as, but not limited to, bronchitis, emphysema, and asthma. Smoking can aggravate the effects of exposure to silica dust.

Emergency and First Aid Procedures:

Inhalation - remove to fresh air. Eyes and skin - flush with water, treat skin with moisturizer.



