

Material Safety Data Sheet

Nichiha Fiber Cement Products

NichiProducts™

(NichiBoard™, NichiPanel™, NichiShake™, NichiSoffit™,
NichiFrontier™, NichiStaggered™, NichiStraight™)





Contact, Hazardous Ingredients/Ingredients Information, Physical/Chemical Characteristics, Fire and Explosion Hazard Data

I. Contact

Manufactured by: Nichiha USA, Inc.
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 Norcross, GA 30092
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Manufacturing Plant: 3150 Avondale Mill Road
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II. Hazardous Ingredients/Identity Information

Hazardous Components	CAS#	ACGIH TLV (mg/m3) (resp./total)	NIOSH REL (mg/m3) (resp./total)	OSHA PEL (mg/m3) (resp./total)	Proportion (weight %)
Calcium Silicate	1344-95-2	NA/10	5/10	5/15	30~60
Natural Organic Fibers	9004-34-6	NA/10	NA/NA	5/15	5~10
Crystalline Silica (Quartz)	14808-60-7	0.025/NA	0.05/NA	10÷(%SiO ₂ +2)* 30÷(%SiO ₂ +2)**	0~10
Mica	12001-26-2	3/NA	3/NA	3/NA	3~5

*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):	1.2±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 and Health Hazard Data

V. Reactivity Data

Stability:

Unstable	
Stable	X

Conditions to Avoid: N/A

Incompatible (Materials to Avoid): Strong Acids

Hazardous Decomposition Or Byproduct: None

Hazardous Polymerization:

May Occur	
Will Not Occur	X

Conditions to Avoid: N/A

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.



Precaution For Safe Handling and Use & Control Measures

VII. Precaution For Safe Handling and Use

Steps to be taken in case material is released or spilled:

Vacuum clean dust using vacuum equipped with HEPA filter. Place dust in a closable container for disposal or flush with water. Do not dry sweep.

Waste Disposal Method:

Dispose in landfill. Comply with all local, state, and federal regulations. Waste generated during application, demolition, breakage or spillage are not classified hazardous wastes.

Precautions to be taken in handling and use:

Ventilation - Use sufficient natural or mechanical ventilation to reduce the dust below the PEL for both respirable and inhalable silica.

Other Precautions:

Wear goggles or face shield during cutting or fabricating. For personal protection measures, see Section VIII.

VIII. Control Measures

Respiratory Protection:

If respirator is required per OSHA/PEL, use respirator with HEPA cartridge as approved by NIOSH/OSHA. Personnel wearing air purifying respirators should fit-test respirators in compliance with a written respiratory protection program in accordance with OSHA regulations, see 29 CFR§1910.134 and 42 CFR§84. In addition, in circumstances in which the occupational exposure limit may be exceeded, always use the recommended protected device.

Ventilation

Local Exhaust: As Appropriate

Special: None

Mechanical: As Appropriate

Other: None

(When cutting this product, use a circular saw with dust collector with HEPA vacuum.)

Protective Gloves: For comfort

Eye Protection: Safety Glasses

Other Protective Clothing or Equipment: None

Work/Hygienic Practices:

Avoid creating and breathing dust. Practice good housekeeping to prevent dust accumulation and properly clean up dust spills. Wash or vacuum clothing which has become dusty.

The forgoing information is believed to be accurate as of the date of this document; however, no warranty or representation with respect to this information is intended or given. Nichiha USA, Inc. accepts no responsibility and disclaims all liability for any harmful effects which may be attributed to exposure of silica. Customer users of our products must comply with all applicable health and safety laws, regulations and others, including the OSHA Hazard Communication Standard.