

**NICHIHA FIBER CEMENT BUILDING PRODUCT
MATERIAL SAFETY DATA SHEET**

Identity : Nichiha KuraStone

Section I

Manufactured by : NICHIHA DECORATION BM (JIAXING) CO.,LTD.

Address : No.321 Wa Shan Road, Zhapu Development Zone, Jiaxing, China, 314201

Telephone No. for information :

Importer : Nichiha USA, Inc.

Address : 6659 Peachtree Industrial Boulevard, Suite-AA, Norcross, GA 30092

Emergency Telephone No. : 770-805-9466

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Section II - Hazardous Ingredients and Exposure Controls

| <u>Hazardous Components</u> | <u>CAS#</u> | <u>ACGIH TLV</u> (mg/m ³) (resp./ total) | <u>NIOSH REL</u> (mg/m ³) (resp./ total) | <u>OSHA PEL</u> (mg/m ³) (resp./ total) | <u>Proportion</u> (weight %) |
|-----------------------------|-------------|--|--|--|---------------------------------|
| Crystalline Silica (Quartz) | 14808-60-7 | 0.025/NA | 0.05/NA | respirable total 10÷(%SiO ₂ +2) 30÷(%SiO ₂ +2) | 15~40 |
| Calcium Carbonate | 471-34-1 | NA/10 | 5/10 | 5/15 | 5~25 |
| Calcium Hydrate | 1305-62-0 | NA/5 | NA/5 | 5/15 | 2~25 |
| Calcium Silicate (Hydrate) | 1344-95-2 | NA/10 | 5/10 | 5/15 | 10~25 |
| Fibrous Glass | 65997-17-3 | NA/5 | NA/5 | 5/15 | 0~3 |
| Iron Oxide | 1309-37-1 | NA/5 | NA/5 | NA/10 | 0~3 |
| Titanium Dioxide | 13463-67-7 | NA/10 | NA/15 | NA/15 | 0~3 |
| Mica | 12001-26-2 | 3/NA | 3/NA | NA/20 (mppcf) | 0~1 |
| Non-hazardous Ingredients | N/A | - | - | - | 5~15 |

Section III - Physical / Chemical Characteristics

Boiling Point: N/A

Specific Gravity (H²O=1): 1.9 ± 0.1

Vapor Pressure (mm Hg): N/A

Melting Point: N/A

Vapor Density (AIR=1): 1.9 ± 0.1

Evaporation Rate (Butyl Acetate=1): N/A

Solubikity in Water: Nil

Reactivity in Water: Nil

Appearance and Odor: Sheet - No odor.

Section 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

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Section 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

Section VI - Health Hazard Data

Warning Label Text: This fiber cement product contains forms of silica and fibrous glass. This product does not pose a cancer risk in the manufactured state. However, dust generation should be controlled, follow the recommendation on the MSDS. Inhalation of crystalline silica dust can cause silicosis and lung cancer.

| | | | | |
|---------------------------|-------------|------------|-------|------------|
| Route(s) of Entry: | Inhalation? | <u>Yes</u> | Skin? | <u>No</u> |
| | Ingestion? | <u>No</u> | Eyes? | <u>Yes</u> |

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 cause silicosis, lung cancer and pose other significant health risk.

--WARNING--

Silica Dust Warning: NICHIHA products contain crystalline silica [a.k.a. sand, silicon dioxide], which is a common Earth's naturally occurring mineral. Inhalation of crystalline silica into the lungs and repeated exposure to silica, can cause health disorders, such as silicosis, lung cancer, or a potentially death depending upon various factors. To be conservative, Nichiha recommends that whenever drilling, cutting, sawing, sanding or abrading the product, users must observe the following safety practices. 1] Use best work practices to reduce airborne dust concentrations. 2] Use a fiber cement circular saw with a dust collector for cutting (e.g., Makita 5057KB). The dust collector must be connected to a HEPA vacuum. 3] Do not use compressed air for cleaning dust. 4] Work outdoors where feasible, otherwise use mechanical ventilation. 5] Everyone handling Nichiha products or in the vicinity of others using Nichiha products must wear safety glasses and properly fitted respirators prior to handling Nichiha products. Nichiha requires that users wear a **NIOSH/OSHA approved respirator with a rating of N100, O100, P100, or R100** in accordance with applicable government regulations and manufacturer instructions. 6] All employers must comply with the OSHA PEL and ACGIH TLV-TWA. 7] Warn others in area. These requirements are designed to help minimize exposure to crystalline silica. We also require that you read all instructions and warnings [including MSDS] prior to using NICHIHA's products. For further information or questions, please consult the MSDS or your employer. The MSDS for Nichiha products are available at nichiha.com, at your local

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? | LARC Monograph? | OSHA Regulated? |
| <u>Yes (respirable silica)</u> | <u>Group I (silica)</u> | <u>Yes (silica dust)</u> |

Sings 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.

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Section VII - Precaution For Safe Handling and Use

Steps to be taken in case material is released or spilled: Vacuum clean dust using a vacuum equipped with a 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 regulation. 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.

Section VIII - Control measures

Respiratory Protection: Respirator with HEPA cartridge as approved by NOISH/MSHA. Personal 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 additionally, in circumstances in which the occupational exposure limit may be exceeded always use the recommended protective device.

Ventilation:

| | | | |
|----------------|----------------|----------|------|
| Local Exhaust: | As Appropriate | Special: | None |
| Mechanical: | As appropriate | Other: | None |

(Cut this product with a power saw equipped with vacuum dust catcher.)

Protective gloves: For comfort

Eye Protection: Safety Glasses

Other Protective Clothing or Equipment: None

Work/Hygienic Practices: Avoid creating and breathing dust. Practice good house-keeping to prevent dust accumulation and properly clean up dust spills. Wash or vacuum clothing which has become dusty.

The foregoing 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 disclaim 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, regulation and others, including the OSHA Hazard Communication Standard.