



Safety Data Sheet (SDS)

[1. PRODUCT AND COMPANY IDENTIFICATION]

PRODUCT NAME	Nichiha NichiProducts: NichiBoard, NichiPanel, NichiShake, NichiStaggered, NichiStraight, NichiSoffit, NichiTrim, NichiFrontier
MANUFACTURER	Nichiha USA, Inc.
ADDRESS	3150 Avondale Mill Road, Macon, GA 31216
HEADQUARTERS ADDRESS	6565 East Johns Crossing, Johns Creek, GA 30097
PHONE	866-424-4421
DATE PREPARED	June 2015

[2. SUMMARY OF HAZARDOUSNESS/HARMFULNESS]

GHS classification

Health harmfulness

- Skin corrosivity/irritation: Classification 1
- Serious eye damage/eye irritation: Classification 1
- Carcinogenicity: Classification 1A
- Specific target organ toxicity (single exposure): Classification 1 (respiratory system)
- Specific target organ toxicity (repeated exposures): Classification 1 (respiratory system, kidney)

GHS label element(s)

Symbols



Signal Word: DANGER

Hazard Statements

- Serious chemical damage to skin
- Serious eye damage
- Carcinogenicity
- May damage the respiratory system if inhaled.
- May damage the respiratory system or kidneys through long-term or repeated exposures.

Safety Measures

- Wash your hands and face thoroughly after handling the product.
- Wear protective gloves, clothes, goggles and mask.
- Do not inhale powder dust.
- Do not eat, drink or smoke while using this product.

First-aid Measures

- Inhalation: Move the victim to a place with fresh air and rest patient in the posture comfortable for breathing.
- Skin contact: Immediately take off/remove all contaminated clothes. Wash the skin under running water.
- Eye contact: Rinse the eye with water carefully for a few minutes. Next, if contact lenses are worn, remove them if easy to remove. Continue washing the eye with water. Immediately seek medical advice/attention.
- When ingested: Wash the mouth. Do not induce vomiting.
- When reusing the contaminated clothes: Wash them prior to use.
- Seek medical attention if you were exposed or feel sick.

Disposal

- Follow applicable local, state, and federal construction waste management requirements. Prevent potential dust exposure for others.

[3. COMPONENT/INFORMATION ON INGREDIENTS]

Classification of single product or mixture: Mixture

Ingredients: Cement, silicate material, organic fiber, additives

NAME	CAS#	%content
Crystalline silica	14808-60-7	0 ~ 10
Calcium silicate	1344-95-2	30 ~ 60
Cellulose	9004-34-6	5 ~ 10
Mica	12001-26-2	3 ~ 5

- The product does not contain asbestos.
- The product does not contain formaldehydes.

[4. FIRST AID]

Eye contact: Immediately wash the eye for at least 15 minutes using clean water and then seek attention of a doctor.

Skin contact: Immediately wash the skin thoroughly with soap and water. Seek medical attention as needed if irritation develops or persists.

Inhalation: Immediately move to a place with fresh air away from dust, gargle with water, and seek medical attention as needed.

Ingestion: Wash the inside of the mouth thoroughly with water and seek medical attention. If the victim is groggy or unconscious, do not induce vomiting, but seek medical attention without delay.

When exposed or potentially exposed to silica dust: Seek medical attention/treatment as necessary.

[5. MEASURES TAKEN IN CASE OF FIRE]

Flammability of the product: Non-combustible when tested under ASTM E136.

Extinguishing method: Cut off the combustion path to the source of fire and extinguish the fire using water and fire-extinguishing medium. Fight the fire from the upwind side and wear respiratory protection gear if necessary.

Fire-extinguishing media: Water, powder, carbonic acid gas, foam

[6. MEASURES TAKEN IN CASE OF LEAK]

The product is normally in a solid sheet-shaped state, so no special measures are needed.

[7. HANDLING AND STORAGE PRECAUTIONS]

Handling:

- Wear protective gloves (work gloves, etc.) when handling the product.
- Provide local exhaust measures when cutting the material and use cutting equipment with anti-dust function. Also wear proper protective equipment (anti-dust mask, protective goggles, etc.) so as not to inhale powder dust or let it enter the eyes.
- Clean dust with HEPA filter equipped vacuum. Do not dry sweep or use compressed air.
- Do not wet the product.
- Rinse face, hands, mouth, etc., with water after handling the product.

Storage: Store the product away from water.

[8. MEASURES FOR PREVENTION OF EXPOSURE]

See below if powder or dust is generated from cutting or otherwise processing the product.

Japan Society for Occupational Health (2014)

Inhalant crystalline silica	0.03 mg/m ³ (TWA)
Inhalant powder dust	1 mg/m ³ (TWA)
Total powder dust	4 mg/m ³ (TWA)

ACGIH TLV (2006):	
Crystalline silica	0.025 mg/m ³ (TWA)
Inhalant powder dust	3 mg/m ³ (TWA)
Total powder dust	10 mg/m ³ (TWA)

OSHA PEL (2015) (Refer to 29 CFR 1910 Table Z-3 regarding mineral dusts):

Crystalline silica (Quartz) (Action Level)	25 µg/m ³ (TWA)
(Permissible Exposure Limit [PEL])	50 µg/m ³ (TWA)
Calcium Silicate (Respirable Fraction)	5 mg/m ³ (TWA)
(Total)	15 mg/m ³ (TWA)
Cellulose (Respirable Fraction)	5 mg/m ³ (TWA)
(Total)	15 mg/m ³ (TWA)
NIOSH REL (2015)	
Mica (Respirable Fraction)	3 mg/m ³ (TWA)

Facility/Engineering Measures: Cut the product outdoors or in a well-ventilated place using a saw with fiber cement saw blades and dust-collecting function. When handling the product indoors, provide a ventilation system, etc., to keep the concentration of airborne dust to the controlled level or below or cut using fiber cement shears.

Personal Protective Equipment:

Eyes:	Anti-dust goggles compliant with ANSI Z87.1.
Hands:	Protective work gloves, regularly washed.
Respiratory:	Use a properly-fitted N, O, or P 100 respirator when cutting or otherwise abrading product.
Skin:	Select personal protective equipment for the body based on the task being performed. Pants, long-sleeve shirts recommended to prevent skin from dust exposure.

[9. PHYSICAL AND CHEMICAL PROPERTIES]

Appearance:	Sheet shaped
Bulk specific gravity:	1.2 ± 0.2
Solubility:	Insoluble in water

[10. STABILITY AND REACTIVITY INFORMATION]

Stability/Reactivity:	Stable
Hazardous/harmful reaction potential:	Not applicable
Hazardous/harmful decomposition products:	Not applicable

[11. INFORMATION ON TOXICOLOGY/HARMFULNESS]

Acute toxicity: No data is available.

Skin corrosivity/irritation and serious damage/irritation to eye:

- If product comes into contact with water, it may exhibit strong alkalinity (pH12 to 13) and cause irritation to the eye, nose and skin as well as inflammation to the cornea, tissues inside the nose, and skin.

Respiratory organ sensitization or skin sensitization:

- The cement contains a trace amount of chromium compound and may cause allergic reaction in people sensitive to hexavalent chromium.

Carcinogenicity: No data is available.

- The product is classified under carcinogenicity classification 1A because it contains crystalline silica.

Reproductive cell mutagenicity: No data is available.

Reproductive toxicity: No data is available.

Specific target toxicity (single exposure): No data is available.

- The product is classified as specific target toxicity (single exposure) classification 1 (respiratory system) because it contains crystalline silica that is classified as having specific target toxicity (single exposure).

Specific target toxicity (repeated exposures): The product may cause pneumoconiosis if inhaled in large quantities over a long period of time.

- The product is classified as specific target toxicity (repeated exposures) classification 1 (respiratory system) because it contains crystalline silica that is classified as having specific target toxicity (repeated exposures).

[12. INFORMATION ON ENVIRONMENTAL IMPACT]

Environmental impact/bio-toxicity

- Exercise caution to prevent negative environmental impact, water may exhibit strong alkalinity (pH12 to 13) with prolonged exposure.

[13. PRECAUTIONS ON DISPOSAL]

Follow all local, state, and federal regulations with respect to construction waste material disposal. When cleaning up dust, never dry sweep. Wet the dust prior to sweeping or use a HEPA vacuum. Take measures to prevent potential dust exposure to others.

[14. PRECAUTIONS ON TRANSPORT]

Information on codes and classifications under international regulations: Not applicable

Specific safety measures and conditions for transport:

- Prevent collapse of cargo, etc., without fail.
- Pay attention to prevent wetting.

[15. REGULATORY INFORMATION]

United States inventory (TSCA) listed items: Quartz – Crystalline Silica (14808-60-7), Calcium Silicate (1344-95-2).

SARA 302/303: No Extremely Hazardous Substances.

SARA 311/312:

	<u>Acute</u>	<u>Chronic</u>	<u>Fire</u>	<u>Pressure</u>	<u>Reactive</u>
Crystalline Silica (Quartz)	yes	yes	no	no	no

[16. OTHER INFORMATION]

Cited Literatures

- JIS Z 7253: 2012 (Japan)
- Health, Labour and Welfare Ministry's Workplace Safety Site, Information on GHS-compliant Model Labeling/Model SDS (Japan)

This data sheet has been prepared based on documents, information and data currently available, but the contents, physical/chemical properties, hazardousness information and other values are not guaranteed. Also note that the cautionary instructions assume normal handling, and if the product will be handled in any special manner, implement safety measures appropriate for the specific application/method of use.