

## TRITON® BACKER BOARD SAFETY DATA SHEET (SDS)

### Section 1 – Product and Company Identification

**Manufacturer:** MiTek Inc.

**Products:** TRITON® Backer Board

**Address:** 560 East Richey Road, Houston, Texas 77073

**Phone Number:** 1-800-328-5934

**Email:** [barriersystems@mii.com](mailto:barriersystems@mii.com)

**Website:** [www.mii.com/watertight](http://www.mii.com/watertight)



**Recommended use:** TRITON Backer Boards are used for tile backer and flooring underlayment.

**Product Type:** Construction Sheathing

**Chemical Family:** Magnesium Cement

**Synonyms:** MOC cement, Magnesium Oxide cement, Magnesium Nanoceramic cement

**TSCA Inventory Status:** Not listed

### Section 2 – Hazard Identification

**Emergency Overview:**

**Hazard Symbol:**



**WARNING:**

PROLONGED EXPOSURE TO DUST MAY CAUSE LONG-TERM LUNG DAMAGE

This product contains very low levels of materials suspected to cause cancer. These materials are at such low levels that there is no expected danger; however, minimizing exposure to dust will eliminate any potential and is a good practice when cutting any construction material.

**Route(s) of Entry:** Skin (None), Eyes (Dust and Chip Form), Inhalation (Dust and Chip Form), Digestion (Dust and Chip Form)

**Health Hazards (Acute and Chronic):**

- Eyes (Dust and Chip Form - Irritation Hazard)
- Inhalation (Dust and Chip Form – Irritation Hazard)
- Skin (Fiberglass may cause itching irritation)
- Ingestion (No Known Hazard)

**Carcinogenicity:** No Known Toxicity Effects (Skin, Eyes, Inhalation, Ingestion)

**Signs & Symptoms of Exposure:** Skin (None), Eyes (Irritation), Inhalation (Coughing), Ingestion (None)

**Medical Conditions Generally Aggravated by Exposure:** Asthma (Inhalation Exposure of Dust Form and Combustion Products) (Avoid Inhalation)

### Section 3 – Composition / Information on Ingredients

Ingredient Name	CAS Number	Percent of Total Weight
Magnesium Oxide	1309-48-4	<50
Magnesium Chloride	7786-30-3	<20
Perlite	130885-09-5	<10
Expanded Polystyrene	9003-53-6	<2
Fiberglass Scrim	65997-17-3	<2
Quartz, crystalline silica	14808-60-7	<3

### Section 4 – First-aid Measures

**Emergency and First Aid Procedures:** Skin (Wash with Soap and Water), Eyes (Immediately Flush with Water. Contact Physician if Irritation Persists), Inhalation (Remove to Fresh Air), Ingestion (Seek Professional Medical Advice. Do Not Induce Vomiting)

### Section 5 – Fire-fighting Measures

**Flash Point:** Solid - Not Applicable

**Flammable Limits:** Solid - Not Applicable...keeps shape even after intense heat exposure.

**LEL:** Solid - Not Applicable

**UEL:** Solid - Not Applicable

**Extinguishing Media:** None, E84 0/0 Rated; Does not burn.

**Special Fire Fighting Procedures:** none

**Unusual Fire and Explosion Hazards:** none

### Section 6 – Accidental Release Measures

**Steps to be taken in Case Material Is Released or Spilled:** Beneficial to water and soil, no environmental concerns with release and disposal. Dust and Chips can be swept, scooped, or vacuumed and removed. Sheets shall be collected and removed.

**Waste Disposal Method:** Follow Local, State, and Federal Regulations for nonhazardous refuse waste.

**Precautions to Be Taken in Handling and Storing:** Protective Gloves to prevent skin irritations; careful not to touch eyes during handling of material.

**Other Precautions:** None

## Section 7 – Handling and Storage

**Restrictions on use:** No known adverse chemical reactions.

**Minimize dust exposure:** If sawing and in a confined space, a NIOSH dust mask is recommended

### Respirator Recommendations:

NIOSH

Up to 0.5 mg/m<sup>3</sup>

(APF=10) Any Particulate respirator equipped with an N95, or P95 filter (including N95, R95, and P95 filtered face pieces) except quarter-mask respirators. The following filters may also be used: N99, R99, P99, N100, R100, and P100.

Store products in the manufacturer's unopened packaging bearing the brand name and manufacturer's identification until ready for installation.

Materials should be stored on level supports off the ground to prevent sagging. Cover loosely with waterproof material to prevent condensation from forming while protecting against weather, direct sunlight, surface contamination, and construction traffic.

Never stack more than 4 pallets high for wooden pallets and 2 for steel pallets.

## Section 8 – Exposure Controls / Personal Protection

**Skin Protection:** Protective Gloves and Clothing

**Eye Protection:** Safety Glasses or Goggles

**Respiratory Protection:** NIOSH dust mask. See Section 7 for guidance

**Ventilation:** General under Standard Conditions. Local Exhaust is recommended in High Dust Formation Areas.

**Other Protective Clothing or Equipment:** None

**Work/Hygienic Practices:** General Clean-up After Exposure. Score and snap generate less dust than sawing, which minimizes nuisance dust.

### Ingredients- Exposure Limits

Component	CAS Number	OSHA-PEL	ACGIH-TLV
Magnesium Oxide	1309-48-4	15 mg/m <sup>3</sup> (Nuisance Particulate)	10 mg/m <sup>3</sup> (Nuisance Particulate)
Perlite	130885-09-5	5mg/m <sup>3</sup> (Nuisance Dust)	10mg/m <sup>3</sup> (Total Nuisance Dust)
Fiberglass Scrim	65997-17-3	15 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable fraction)	5 mg/m <sup>3</sup> (inhalable) 1 f/cc (respirable fibers)
Expanded Polystyrene	9003-53-6	15 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable fraction)	5 mg/m <sup>3</sup> (inhalable) 3 mg/m <sup>3</sup> (respirable)
Quartz, crystalline silica	14808-60-7	50 mg/m <sup>3</sup> (total dust)	-

\*The weight percent for Crystalline Silica represents the total Crystalline Silica and not the respirable fraction.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Crystalline silica has a detection limit of 3% in solid products. At levels below this, it is not expected to have any adverse health effects or be detectable in the dust. EU has determined that levels of crystalline silica in products at levels of about 10 wt.% are dangerous. The US has yet to set a product limit and only specifies dust exposure levels. These products contain less than 3%, and it is reported only because it is detectable. It is contained as an impurity in the Magnesium Oxide and is not added. It has been considered previously under the Magnesium Oxide CAS number but has been added in the 2017 revisions for transparency to EU users.

**Additional Information:** Products listed in this SDS do not contain any form of Asbestos.

## Section 9 – Physical and Chemical Properties

**Boiling Point:** Solid

**Vapor Pressure (mm Hg):** Solid

**Vapor Density (AIR = 1):** Solid

**Solubility in Water:** Solid

**Specific Gravity (H<sub>2</sub>O = 1):** 0.85

**Melting Point (°F):** Blow torch applied for 30 minutes straight by local fire marshal with no significant side effects - also tested with flame temperatures of 1400 degrees Celsius.

**Heat Deflection Temperature:** Not Available

**Evaporation Rate (Butyl Acetate = 1):** Solid

**Appearance and Odor:** Sheet

## Section 10 – Stability and Reactivity

**Stability:** Stable (Non-reactive to known substances)

**Conditions to Avoid:** No Known Conditions

**Incompatibility (Materials to Avoid):** No Known Substances

**Hazardous Decomposition or Byproducts:** No Known Conditions

**Hazardous Polymerization:** No Known Conditions

**Conditions to Avoid:** No Known Conditions

## Section 11 – Toxicological Information

All risk information above is basis the raw materials. This product has not toxic data.

## Section 12 – Ecological Information

This product is safe for disposal and has no known adverse effects.

## Section 13 – Disposal Considerations

Dispose of per federal, state and local government regulations. Recycle if possible.

## Section 14 – Transport Information

Not regulated for transportation.

## Section 15 – Regulatory Information

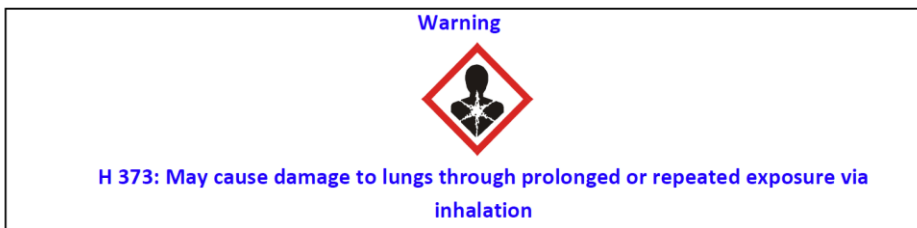
US:

TSCA Inventory Status: Not listed

EPCRA 311/312 (Hazard Categories): Acute

EU regulation declaration:

Hazard elements of the STOT RE 2 label for products containing quartz (fine fraction 1-10%) or cristobalite (fine fraction 1-10%)



## Section 16 – Other Information

This material is categorized as Non-Hazardous for transportation purposes. The information contained herein is accurate to the best of all available knowledge at the time of printing. Hazardous conditions due to alterations of the material have not been established.

Safety Data Sheet (SDS) issued July 23, 2024

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