

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

### Section 1 – Product and Company Identification

**Manufacturer:** MiTek Inc.

**Products:** TRITON® Waterproof 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 Waterproof Backer Board is intended for use as interior tile backer board in wet area vertical applications of tile or stone. TRITON Waterproof Backer Board is comprised of MiTek Waterproof Membrane factory-applied over TRITON® Backer Board, an environmental—and people-friendly water—and fire-resistant magnesium oxychloride cement tile backer board. The Waterproof Membrane gets applied to the TRITON Backer Board in the field with thin-set or during the manufacturing of the board with concrete directly applied or with an adhesive.

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

### Section 2 – Hazard Identification

#### **MiTek Waterproof Membrane**

**Route(s) of Entry:** Skin (None), Eyes (None), Inhalation (None), Ingestion (None)

**Health Hazards** (Acute and Chronic)

Skin (No Known Hazard)

Eyes (No Known Hazard)

Inhalation (No Known Hazard)

Ingestion (No Known Hazard)

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

**Signs and Symptoms of Exposure:** Skin (None), Eyes (None), Inhalation (None), Ingestion (None)

**Medical Conditions Generally Aggravated by Exposure:** None

#### **TRITON Backer Board**

**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

### MiTek Waterproof Membrane

**Preparation:** Sealing membrane in roll form and preformed components

**Chemical Characterization:** Polypropylene fleece & polyethylene

**Hazard Classification:** This material is considered not hazardous by the U.S. Occupational Safety and Health Administration's (OSHA) Hazard Communication Standard (29 CFR 19010.1200) and SIMDUT in Canada.

| Ingredient Name | CAS Number | Percent of Total Weight |
|-----------------|------------|-------------------------|
| Polypropylene   | 9003-07-0  | ~66                     |
| Polyethylene    | 9002-88-4  | ~34                     |

### TRITON Backer Board

| 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 in Case of:

- Contact with skin – remove residue with soap and water, consult a physician in case of skin reaction
- Contact with eyes – flush eyes with water for 10 to 15 minutes while holding eyelids apart; consult an ophthalmologist should symptoms persist
- Inhalation – a person affected by the formation of dust should be removed to fresh air and kept still; seek medical attention if respiratory difficulties develop
- Ingestion – Not a probable route of exposure; in the case of the formation of dust, rinse your mouth and seek medical attention if difficulties develop. If ingested, do not induce vomiting; seek immediate medical attention.

**Information to Physician** – Treat symptomatically

## Section 5 – Fire-fighting Measures

### **MiTek Waterproof Membrane**

**Melt Point:** Polypropylene fleece = 160° C; polyethylene foil = 130° C

**Flash Point:** Not applicable

**Auto Ignition Temperature:** > 350° C

**Extinguishing Media:** Water fog, foam, dry extinguishing powder, carbon dioxide

**Specific or Unusual Fire and Explosion Hazards:** Flammability characteristics will not be detected by any flash point method

**Combustion By-Products:** Smoke, carbon black, carbon monoxide, carbon dioxide, and other decomposition products of hydrocarbons

**Special Fire Fighting Procedures:** Do not use a high-power water jet. Use of foam or water may cause frothing. Apply water from as far away as possible. Do not release runoff from fire control to sewers or waterways.

**Special Protective Equipment:** Normal firefighting equipment and protective clothing. Wear a self-contained, positive-pressure breathing apparatus where smoke is present or may occur.

### **TRITON Backer Board**

**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

### **MiTek Waterproof Membrane**

**Personnel Precautions:** None

**Environmental Precautions:** Remove

**Clean-Up Method:** Remove mechanically, place in appropriate container for disposal, and dispose in a legal manner consistent with local regulations.

**Product Recovery:** Can be recycled (plastic #5)

**Waste Disposal Method:** Remove mechanically, place in appropriate container for disposal, and dispose in a legal manner consistent with local regulations.

**Precautions to Be Taken in Handling and Storing:** None

**Spill and Leak Procedures:** Collect and dispose of material in an approved container. If the product becomes molten, allow it to cool before disposal or removal from the substrate.

**Other Precautions:** Do not allow waste or residual material to enter groundwater, surface water, or drains.

### **TRITON Backer Board**

**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: A NIOSH dust mask is recommended if sawing and in a confined space.**

### **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**

### **MiTek Waterproof Membrane**

**Skin Protection:** None required for recommended use

**Eye Protection:** None required for recommended use

**Respiratory Protection:** None required for recommended use

**Ventilation:** Recommended use requires none in excess of accepted workplace safety recommendations  
**Other Protective Clothing or Equipment:** None required for recommended use  
**Permissible Exposure Limit (PEL):** Not applicable for recommended use

**TRITON Backer Board**

**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><br>(Nuisance Particulate)                                 | 10 mg/m <sup>3</sup><br>(Nuisance Particulate)                      |
| Perlite                    | 130885-09-5 | 5mg/m <sup>3</sup><br>(Nuisance Dust)  | 10mg/m <sup>3</sup><br>(Total Nuisance Dust)                        |
| Fiberglass Scrim           | 65997-17-3  | 15 mg/m <sup>3</sup> (total dust)<br>5 mg/m <sup>3</sup> (respirable fraction) | 5 mg/m <sup>3</sup> (inhalable)<br>1 f/cc (respirable fibers)       |
| Expanded Polystyrene       | 9003-53-6   | 15 mg/m <sup>3</sup> (total dust)<br>5 mg/m <sup>3</sup> (respirable fraction) | 5 mg/m <sup>3</sup> (inhalable)<br>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**

**MiTek Waterproof Membrane**

**Physical Appearance:** Solid membrane

**Form:** 1-meter wide membrane roll, sealing tape roll, and preformed components  
**Color:** TRITON® yellow  
**Odor:** None  
**pH Value:** No data available  
**Flash Point:** Not applicable  
**Melting Point:** Polypropylene fleece = 160° C; polyethylene foil = 250° C  
**Initial Boiling Point and Boiling Range:** No data available  
**Evaporation Rate:** No data available  
**Flammability:** Combustible  
**Explosive Properties:** Non-explosive  
**Explosive Limits:** Lower Explosion Limit (LEL)-not applicable; Upper Explosion Limit (UEL)-not applicable  
**Vapor Pressure:** No data available  
**Vapor Density:** No data available  
**Density:** 0.95 g/cm<sup>3</sup> (specific gravity, water=1)  
**Water Solubility:** Insoluble  
**Fat Solubility:** Almost insoluble  
**Partition Coefficient:** No data available  
**Auto Ignition Temperature:** > 250° C  
**Thermal Decomposition:** No data available  
**Oxidizing Characteristics:** Non-oxidizing  
**Other Information:** Flammable limit > 350° C

#### **TRITON Backer Board**

**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

### MiTek Waterproof Membrane

#### Toxicological Tests

**Acute Toxicity (oral):** Based on available data, the classification criteria are not met

**Acute Toxicity (dermal):** Based on available data, the classification criteria are not met

**Acute Toxicity (inhalative):** Based on available data, the classification criteria are not met

**Skin Corrosion/Irritation:** Based on available data, the classification criteria are not met

**Eye Damage/Irritation:** Based on available data, the classification criteria are not met

**Respiratory Sensitization:** Based on available data, the classification criteria are not met

**Skin Sensitization:** Based on available data, the classification criteria are not met

**Germ Cell Mutagenicity:** Based on available data, the classification criteria are not met

**Germ Cell Genotoxicity:** Based on available data, the classification criteria are not met

**Carcinogenicity:** Based on available data, the classification criteria are not met

**Reproductive Toxicity:** Based on available data, the classification criteria are not met

**Lactation Effects:** Based on available data, the classification criteria are not met

**Specific Target Organ Toxicity (single exposure):** Based on available data, the classification criteria are not met

**Specific Target Organ Toxicity (repeated exposure):** Based on available data, the classification criteria are not met

**Aspiration Hazard:** Based on available data, the classification criteria are not met

#### Other Information

##### Polyethylene

- IARC Rating: Group 3
- OSHA Carcinogen: Not listed
- NTP Rating: Not listed

##### Polyethylene

- IARC Rating: Group 3
- OSHA Carcinogen: Not listed
- NTP Rating: Not listed

### TRITON Backer Board

All risk information above is based on the raw materials. This product has no toxic data.

## Section 12 – Ecological Information

### MiTek Waterproof Membrane

**Eco Toxicological Effects:** No toxicity for the environment. The product is almost completely mechanically separated in water treatment facilities. Do not release or allow to enter into groundwater, surface water, or drains.

**Mobility in Soil:** No data available

#### **Persistence and Degradability:**

In Soil – Product is not soluble in water and is not biodegradable.

In Water – Product is not soluble in water and is not biodegradable.

**Additional Ecological Information:** 0% by Weight = 0 g/L

### TRITON Backer Board

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

## Section 13 – Disposal Considerations

### MiTek Waterproof Membrane

**Product** – The allocation of waste identity numbers and waste descriptions must be carried out according to the EEC, specific to the industry and process.

Polyethylene – Plastic #4

Polypropylene – Plastic #5

### **Contaminated Packaging**

Waste Key Number 150101 – Paper and Cardboard Packaging

Waste Key Number 150102 – Plastic Packaging

### TRITON Backer Board

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

## Section 14 – Transport Information

**US Department of Transportation (DOT):** Not controlled by DOT regulations

**Sea Transport (IMDG):** Not restricted, not a marine pollutant

**Air Transport (IATA):** Not restricted

## Section 15 – Regulatory Information

### MiTek Waterproof Membrane

#### **US Federal Regulations**

|                       |  |
|-----------------------|--|
| <b>Product:</b>       | TSCA Inventory – not listed  |
| <b>Polyethylene:</b>  | TSCA Inventory – Listed, EPA Flags XU<br>TSCA HPVC: not listed<br>Carcinogen Status: <ul style="list-style-type: none"><li>– IARC Rating: Group 3</li><li>– OSHA Carcinogen: Not listed</li><li>– NTP Rating: Not listed</li></ul> |
| <b>Polypropylene:</b> | TSCA Inventory – Listed, EPA Flags XU<br>TSCA HPVC: not listed<br>Carcinogen Status: <ul style="list-style-type: none"><li>– IARC Rating: Group 3</li><li>– OSHA Carcinogen: Not listed</li><li>– NTP Rating: Not listed</li></ul> |

### TRITON Backer Board

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%)

Warning



H 373: May cause damage to lungs through prolonged or repeated exposure via inhalation

## Section 16 – Other Information

### Hazard Rating Systems

#### NFPA Hazard Rating:

Health: 0 (minimal)  
Fire: 1 (slight)  
Reactivity: 0 (minimal)

#### HMIS Version III Rating:

Health: 0 (minimal)  
Flammability: 1 (slight)  
Physical Hazard: 0 (minimal)  
Personal Protection: X (consult your supervisor)



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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