MITEK® PRE-SLOPED SHOWER BOARD & COMPONENTS SAFETY DATA SHEET (SDS)

Section 1 – Product and Company Identification

Manufacturer: MiTek Inc.
Products: Pre-Sloped Shower Board, Benches, Niches and Curbs
Address: 560 East Richey Road, Houston, Texas 77073
Phone Number: 1-800-328-5934
Email: barriersystems@mii.com
Website: www.mii.com/watertight
Recommended use: Pre-Sloped Shower Board and associated foam products are intended for use in place of traditional mud set tile beds and are comprised of two (2) primary components: 1) MiTek polyethylene and polypropylene Waterproof Membrane factory adhered to 2) a pre-sloped expanded polystyrene (EPS) shower board.
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

Pre-Sloped Expanded Polystyrene (EPS) Shower Board
Emergency Overview: Material is flammable and will emit an acrid smoke and potentially toxic fumes when heated to decomposition. Accumulated fine dust may present a risk of explosion in the presence of open flame, sparks, or static electricity discharges.
Route(s) of Entry: Skin (None), Eyes (None), Inhalation (None), Ingestion (None)
Health Hazards (Acute and Chronic):
- Skin: Potential mechanical irritation from repetitive handling
- Eyes: Potential mechanical irritation from contact with fines
- Inhalation: Potential irritation to the respiratory system from inhalation of fines
- Ingestion: May be harmful if swallowed, mechanical irritation and blockage of the digestive tract

Carcinogenicity: No Known Toxicity Effects (Skin, Eyes, Inhalation, Ingestion)
Signs & Symptoms of Exposure: Skin (None), Eyes (None), Inhalation (None), Ingestion (None)
Medical Conditions Generally Aggravated by Exposure: None

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 & 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**

Pre-Sloped Expanded Polystyrene (EPS) Shower Board
Preparation: Pre-sloped shower board
Chemical Characterization: Expanded polystyrene (EPS)
Hazard Classification: This material is considered not hazardous by the U.S. Occupational Safety & Health Administration's (OSHA) Hazard Communication Standard (29 CFR 1910.1200) and SIMDUT in Canada.

Ingredient Name	CAS Number	Percent of Total Weight
Polystyrene	**9003-53-6**	**92-97**
n-Pentane	**109-66-0**	**3-8***
Isopentane	**78-78-4**	**0-3***
	***All pentanes (normal- and iso-) combined**	**3-8**

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

See Section 9, Physical & Chemical Properties, for flammability limits, flash point, and auto ignition information.
General Fire Hazards: Dangerous fire risk, vigorously supports combustion. When heated to decomposition, the product will emit acrid smoke and potentially toxic fumes. Vapors are heavier than air and may travel along the ground to some distant source of ignition and flash back. Remove additional product from the fire area if it is safe to do so.

Explosion Hazards: Vapors are heavier than air and may travel along the ground to some distant source of ignition and flash back. Accumulated fine dust may form an explosive mixture with air. Prevent contact with electrostatic discharges and other ignition sources. Rick if explosion is increased in the presence of flammable vapors.
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: Styrene, oxides of carbon, smoke, carbon black, carbon monoxide, carbon dioxide, and other toxic gasses and decomposition products of hydrocarbons.
Special Fire Fighting Procedures: Do not use direct water stream. 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. Use water spray to cool exposed products.
Special Protective Equipment: Normal firefighting equipment and thermal protective clothing. Wear a self-contained, positive-pressure breathing apparatus where smoke is present or may occur.
Fire Fighting Equipment/Instructions: Reference the 2008 Emergency Response Guidebook, Guide No. 133, for additional details and instructions. Position upwind and keep unnecessary personnel away. Remove additional product from the fire area if safe to do so. For massive fore, use unmanned holders or monitor nozzles, If not possible, withdraw from area and allow fire to burn. Cool surrounding material with flooding quantities of water until well after fire is extinguished. Control runoff water to prevent entry into sewers, drains, underground or confined spaces, and waterways.

Section 6 – Accidental Release Measures

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.
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 into groundwater, surface water, or drains.

Section 7 – Handling and Storage

Handling

- Provide adequate ventilation and local exhaust as needed.
- Avoid generation of dust
- Avoid inhalation of dust generated
- Precaution for safe handling – no specific measures
- Personnel precautions – non-hazardous
- Precautions against fire and explosion – slow to ignite, relatively easy to combust

Storage

- Storage conditions – store away from heat sources
- Avoid for storage – do not freeze

- Incompatible materials – none
- Recommended container – store in original packaging
- Containers not recommended - none

Section 8 – Exposure Controls / Personal Protection

Skin Protection: None required for recommended use
Eye Protection: Safety glasses
Respiratory Protection: Dust mask as needed
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

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^3 (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

Pre-Sloped Expanded Polystyrene (EPS) Shower Board
Physical Appearance: White beads formed into solid
Form: Various dimensions with a 2% slope to drain
Color: White
Odor: Slight hydrocarbon
pH Value: Not applicable
Flash Point: -49° C (Pentane)

Melting Point: -129.8° C (Pentane)
Initial Boiling Point and Boiling Range: 36° C (Pentane)
Evaporation Rate: Not applicable
Flammability: Extremely Flammable (Pentane)
Explosive Properties: Non-explosive
Flammability Limits: Lower Flammability Limit (LFL) – 1.4% (Pentane); Upper Flammability Limit (UFL) – 8.3% (Pentane)
Vapor Pressure: 400 mmHg @ 20° C (Pentane)
Vapor Density @ 0° C (air=1): 2.5 (Pentane)
Density: 0.95-1.05 g/cm^3 (specific gravity, water=1)
Water Solubility: Insoluble
Solubility: Methanol, methylethylketone, benzene, toluene, or xylene; partially soluble in diethyl ether, n-octanol, acetone
Partition Coefficient: Not applicable
Auto Ignition Temperature: 260° C (Pentane)
Thermal Decomposition: No data available
Oxidizing Characteristics: Non-oxidizing
Other Information: None

Section 10 – Stability and Reactivity

MiTek Waterproof Membrane
Reactivity: No data Available
Chemical Stability: Stable under recommended usage and storage conditions
Possibility of Hazardous Reactions: No hazardous reaction when material is handled and stored as recommended
Conditions to Avoid: Protect from frost, heat, and sunlight
Incompatible Materials: Strong oxidizing agents and solvents
Hazardous Decomposition Products: If heated to decomposition, the product may emit smoke, carbon monoxide, carbon dioxide, and other decomposition products of hydrocarbons
Thermal Decomposition: No data available

Pre-Sloped Expanded Polystyrene (EPS) Shower Board
Chemical Stability: Stable under recommended usage and storage conditions
Chemical Stability – Conditions to Avoid: Keep away from heat and ignition sources. Static electricity discharges and incompatible materials
Incompatibility: Not resistant to oxidizing agents, dissolves in organic solvents
Hazardous Polymerization: Not expected to occur
Hazardous Decomposition: Styrene, oxides of carbon, and other gasses at elevated temperatures
Special Remarks: Strong oxidizers can increase fire and explosion hazard. Powders or dust may form an explosive mixture with air. Risk of dust-air explosion is increased in the presence of flammable vapors.

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

Pre-Sloped Expanded Polystyrene (EPS) Shower Board

A: Acute Toxicity – General Product Information

This product has not been tested. Extremely low toxicity risk when used in the intended manner. Exposure to high levels of dusts may be irritating to the eyes. Skin/eye contact with molten or heated may cause burns. Vapors/fumes may be irritating to the respiratory system.

Pentanes, mixed – Contact can irritate the eyes and skin, causing a rash and a burning sensation. Inhalation can irritate the nose, throat, and lungs, causing coughing, wheezing, and/or shortness of breath.

B: Acute Toxicity – LD50/LC50

n-Pentane (109-66-0)
Inhalation LC50 Rat: 364g/m3/4H; Dermal LD 50 Rabbit: 3000 mg/kg; Oral LD50 Rat: >2000 g/kg

Isopentane (78-78-4)
Inhalation LC50 Rat:280000 mg/m3/4H

C: Chronic Toxicity – General Product Information

Pentanes, mixed – Prolonged, repeated skin contact can cause defatting dermatitis with dryness, cracking, redness, and blisters. Chronic pentane exposure may damage the nervous system, causing numbness, “pins and needles,” and weakness in the arms and legs.

D: Chronic Toxicity – Carcinogenic Effects

ACGIH, EPA, ISHA, and NTP carcinogen lists have been checked for similar materials or those components with CAS registry numbers

Polystyrene (9003-53-6)

IARC: Supplement 7, 1987; Monograph 19, 1979 (Group 3 (not classifiable))

Section 12 – Ecological Information

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

Section 13 – Disposal Considerations

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
Expanded polystyrene – Not applicable

Contaminated Packaging

Waste Key Number 150101 – Paper and Cardboard Packaging
Waste Key Number 150102 – Plastic Packaging

Section 14 – Transport Information

US Department of Transportation (DOT)/Sea Transport (IMDG)/Air Transport (IATA)

Shipping Name: Polymeric beads, expandable
UN#: 2211
Hazard Class: 9
Packing Group: III
Required Label(s): Class 9: Miscellaneous
Additional Information – US DOT: 2008 Emergency Response Guidebook, Guide No. 133
Additional Information – IMDG: EmS Code: F-A, S-I. Not a marine pollutant
Additional Information – IATA: None

Section 15 – Regulatory Information

US Federal Regulations

Product: TSCA Inventory – not listed

Polyethylene: TSCA Inventory – Listed, EPA Flags XU
TSCA HPVC: not listed
Carcinogen Status:
- IARC Rating: Group 3
- OSHA Carcinogen: Not listed
- NTP Rating: Not listed

Polypropylene: TSCA Inventory – Listed, EPA Flags XU
TSCA HPVC: not listed
Carcinogen Status:
- IARC Rating: Group 3
- OSHA Carcinogen: Not listed
- NTP Rating: Not listed

EPS: TSCA Inventory – Listed, EPA Flags XU
TSCA HPVC: not listed
Carcinogen Status:
- IARC Rating: Group 3
- OSHA Carcinogen: Not listed
- NTP Rating: Not listed

Section 16 – Other Information

Hazard Rating Systems

NFPA Hazard Rating:
Health: 1 (minimal)
Fire: 3 (slight)
Reactivity: 0 (minimal)

HMIS Version III Rating:
Health: 0 (minimal)
Flammability: 1 (slight)
Physical Hazard: 0 (minimal)
Personal Protection: Dust mask, safety glasses

Safety Data Sheet (SDS) issued July 23, 2024

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