



Vapor Sentinel™ Vapor Barrier SAFETY SHEET

PRODUCT NAME

Vapor Sentinel™ Vapor Barrier

PRODUCT USE

Under-slab and below-grade water vapor barrier

MANUFACTURER

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HAZARD POTENTIAL IDENTIFICATION

Hazard Information	None as defined under OSHA Hazard Communication Standard: 29 CFR Part 1910.1200.
GHS Classification	Not classified/not a dangerous substance per Globally Harmonized System of Classification and Labeling of chemicals (GHS).
Inhalation	Inhalation is not a likely exposure at room temperature. Respiratory irritation may occur in the case of critical situations (i.e. fire, overheating, or combustion) due to excessive inhalation of fumes.
Skin Contact	The product poses an unlikely hazard in contact with skin when the product is used in recommended conditions. Molten product may cause thermal burns.
Eyes	It is not likely that this product cause irritation to eyes when used in recommended conditions. Mechanical irritation is possible, but unlikely under recommended conditions of use. Molten product may cause thermal burns.
Ingestion	Ingestion of this product is not a likely route of exposure.
Carcinogenicity	The components of this product are not considered hazardous chemicals per OSHA Hazard Communication Standard: 29 CFR Part 1910.1200. No Ingredient of this product present at levels greater than or equal to 0.1 % is identified as probable, possible or confirmed human carcinogen by IARC. No ingredient of this product present at levels greater than or equal 0.1% is identified as a known or anticipated carcinogen by NTP. No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

FIRST AID MEASURES

The following first aid recommendations assume that appropriate personal and industrial hygiene practices are followed.

If Inhaled	Inhalation is not likely to occur. With recommended use, the material is neither an irritant nor gives off hazardous vapors. If excessive inhalation of fumes does occur due to critical situations, move the person to fresh air. If symptoms persist, seek medical attention.
In Case of Skin Contact	Under recommended use, the material is unlikely to be hazardous when in contact with skin. If molten material contacts skin, quickly cool in water, seek immediate medical attention. Do not try to peel solidified material from the skin or use solvents or thinners to dissolve it.
In Case of Eye Contact	For recommended use, the product is unlikely to be hazardous to the eyes. If physical contact with eyes occurs, rinse immediately and generously with water and seek medical advice. In critical situations where eyes may be exposed to excessive fumes, move the person to fresh air. If symptoms persist, seek medical attention.
If Swallowed	Under recommended use and instruction, the material should not be ingested. If ingested, do not induce vomiting. Seek immediate medical attention.

COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Characterization: Polyolefins and additives. *

Description: Film made of polyolefins. **

MIXTURE:

Chemical Characters: Polyolefin and additives.

Hazard Information: The material is not expected to be classified as hazardous.

FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Water, Water Mist, Dry Chemical, Carbon Dioxide, and Foam. If possible water should be applied as a spray from a fogging nozzle since this is a surface burning material. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific Hazards During Fire Fighting: In its normal form, this product offers no unusual explosion hazards. See Hazardous Decomposition Products below.

ACCIDENTAL RELEASE MEASURES

Personal Precautions: Collect spilled material. Danger of slipping on spilled product.

Environmental Precautions: No special measures required. Prevent product from entering drains.

Methods and Materials for Containment and Cleaning Up: Clean up promptly by physical collection, sweeping or vacuum. Recycle product or dispose of properly.

HANDLING AND STORAGE

Safe Handling Precautions	Practice good housekeeping and personal hygiene and always wash hands after handling the product. Take precaution when handling the product in bulk as it may present a crushing hazard due to the large volume and mass involved - possibly resulting in severe injury or death. Take caution against static electricity and minimize dust generation.
Safe Storage Precautions	Keep conditions cool, dry, and well-ventilated. Product should not be stored in excessive cold, direct sunlight, or temperatures exceeding 90°F. Compliance of this policy should ensure optimum performance of this product. Store in accordance with local regulations. Materials should be stored away from heat, sources of ignition, direct sunlight, oxidizing agents and other incompatible materials. Treat as a solid that can burn.
Installation Temperature Range	Below 110°F (ambient). Please also see technical and safety data sheets for accessory products installation/application temperature ranges.
In-Service Temperature Range	Below 85°F (soil and slab temperature, beginning 28 days following slab placement). Please also see technical and safety data sheets for accessory products installation/application temperature ranges.
Exposure to Ultraviolet Radiation/Weather Events	After installation, Vapor Sentinel™ Vapor Barrier exposure to sunlight and/or weather events should be minimized and should not exceed 7 days between installation and concrete placement (or other complete protection from the elements).

If any of the conditions cited above pose a problem for the typical installation of Vapor Sentinel™ Vapor Barrier, please contact Vapor Products Group for additional information and solutions.

EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls	Potential exposure conditions will effect the level of protection and types of engineering controls required. Use local exhaust ventilation when routinely heat sealing Vapor Sentinel™ Vapor Barrier and take proper measures to ventilate the area to prevent accumulation of dust and fumes. Follow best practices for good ventilation in the workplace.
Exposure Limits	No applicable exposure limits available for this product or its components.
Personal Protection	These recommendations are made only based on an understanding of product usage under normal conditions. Personal protective equipment may vary depending on condition factors such as application, handling practices, concentration, and ventilation. Decisions about appropriate personal protective equipment should be evaluated based on the performance characteristics of the protective equipment relative to: task(s) to be performed, area conditions, duration of uses, and the hazards and/or potential hazards that may be encountered during use.
Respiratory Protection	None should be required with the peoper engineering controls in place.
Eye Protection	Safety glasses with side shields is recommended when contact is possible as use of safety glasses is good industrial practice.

Skin Protection	When installing the product outdoors, take proper precaution against exposure to sun and other weather elements. Risk of skin irritation is not likely when handling the product. If irritation does occur from contact with the product, wear protective gloves when handling this material.
Occupational Exposure Limits	Consult local authorities for acceptable exposure limits.
Environmental Controls	Comply with applicable environment regulations limiting discharge to air, water, and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions.
Specific Hygiene Measures	Always observe good personal hygiene measures. Wash after handling the material and before eating, drinking, using tobacco products, or using toilet facilities. Routinely wash work clothes and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping. Materials spilled on hard surfaces can a serious slipping or falling hazard. Use care in walking on spilled material.

PHYSICAL AND CHEMICAL PROPERTIES

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Film
General Physical Form	Solid plastic film
Physical State	Solid
Odor	Mild to no odor
Odor Threshold	No data available
pH-Value	Not applicable
Melting Point (C)	90-140 degrees
Freezing Point (C)	No data available
Flash Point	No data available
Flammability (solid, gas)	Not classified. Polymer will burn but does not easily ignite.
Solubility in water	Insoluble
Auto-ignition Temp	No data available
Density	1.00 - 0.91 g/cc
Lower Explosion Limit	Not applicable
Upper Explosion Limit	Not applicable
Explosive Properties	No data available

STABILITY AND REACTIVITY

Chemical Stability	This material is considered stable under normal ambient and anticipated storage and handling conditions.
Conditions to Avoid	Avoid elevated temperatures for prolonged periods of time, contact with strong oxidizers, sparks or open flame. Minimize dust generation and accumulation.
Materials to Avoid	Avoid contacts with strong oxidizing agents. Material product performance and/or service life may be adversely affected by some aromatic hydrocarbons or other known polymer pro-degradants.
Hazardous Decomposition Products	Material does not decompose at ambient temperature.
Hazardous Polymerization	Under normal conditions of storage use, hazardous polymerization will not occur.

TOXICOLOGICAL INFORMATION**ACUTE TOXICITY**

Oral Toxicity	Health injuries are not known or expected under normal use. Presumed not toxic.
Inhalation Toxicity, Vapor	Health injuries are not known or expected under normal use. Presumed not toxic.
Dermal Toxicity	Health injuries are not known or expected under normal use. Presumed not toxic.
Skin Irritation	No data available. No adverse effects expected.
Eye Irritation	No data available. No adverse effects expected.
Sensitization	No data available. No adverse effects expected.
Carcinogenicity	See Page 1 Section <i>Hazard Potential Identification</i> .
Additional Toxicological Information	This product contains additives that are encapsulated in the film. Under the normal conditions for use of the product, these additives are not expected to pose any health hazards per our experience and the information provided to us.

TRANSPORT INFORMATION

U.S. DOT Hazard Class: Not regulated.

REGULATORY INFORMATION**US REGULATIONS:**

TSCA: All components of this product are on the TSCA inventory or are exempt from listing.

ECOLOGICAL INFORMATION

Persistence and Degradability: This material is persistent in the environment. Not readily biodegradable. Bioaccumulation: No data available. No bioaccumulation expected.

Mobility: Product is insoluble and floats on water.

Ecotoxicity (Aquatic and Terrestrial): Not expected to be harmful to aquatic or terrestrial organisms.

Biodegradability: The material is not expected to be readily biodegradable.

Other Information: Recycle material or dispose of properly.

DISPOSAL CONSIDERATIONS

Waste Disposal (recommendations based on product as supplied): Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal. It is recommended that all waste be analyzed for compliance to applicable laws and regulations governing proper recycling and/or disposal methods and reporting requirements. Consult your local or regional authorities.

OTHER INFORMATION**MEDICAL APPLICATION CAUTION:**

Do not use this material in medical applications involving permanent implantation in the human body or permanent contact with internal body fluids or tissues.

* Article; product meets definition of an article as defined by official OSHA interpretations.

** As per paragraph (i) of OSHA Hazard Communication Standard 29 CFR Part 1910.1200, formulation is considered a trade secret and specific chemical identity and exact percentage of composition may have been withheld. Specific chemical identity and exact percentage composition will be provided to health professionals, employees, or designation representatives in accordance with applicable provisions of paragraph (i).

Disclaimer: the information contained herein only applies to the noted product. To the best of our knowledge, having been obtained through our suppliers or third parties, this information is accurate. We make no warranties, express or implied, concerning this information or the safe use of the noted product, and we disclaim liability from loss, damage, or other from the product's use, handling, or storage. Users are responsible for verifying the fitness/suitability of the product for any purposes/applications and for confirming compliance with any/all relevant codes or regulations.