

Material Safety Data Sheet

VERSIWELD REINFORCED TPO MEMBRANE (Standard, HS/ES and VersiFleece TPO)

Date of Preparation: 09/09/2010

Revision: 008

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: VersiWeld Reinforced TPO Membrane (Standard, HS/ES, and VersiFleece TPO)
Chemical Formula: Mixture
General Use: Roof and Waterproofing Membrane
Manufacturer: Carlisle Construction Materials Incorporated, 1285 Ritner Highway, Carlisle, PA 17013
Phone: 800-992-7663
Emergency Phone Number: CHEMTREC (USA) 800-424-9300

Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number	% wt or % vol
Propylene ethylene copolymer	9010-79-1	>50
Magnesium hydroxide	1309-42-8	>15
Stabilizers (trade secret)		>5

Hazardous Ingredients:

Ingredient	OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH IDLH
	TWA	STEL	TWA	STEL	TWA	STEL	

This product is considered to be a finished article as defined by 29 CFR 1910.1200 and is exempt from the requirements of the Hazard Communication standard. This product is nonhazardous as per 29 CFR 1910.1200.

Section 3 - Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

HMIS
H 0
F 1
P 0
PPE †
†Sec. 8

Potential Health Effects

Primary Entry Routes: None

Target Organs: Not Applicable

Acute Effects

Inhalation: Inhalation of vapor from this product during heat welding may cause respiratory tract irritation.

Eye: Vapor from this product during heat welding may irritate eyes.

Skin: Exposure to hot surfaces during heat welding may cause thermal burns.

Ingestion: Ingestion difficult, no known health effects.

Carcinogenicity: None Known

Medical Conditions Aggravated by Long-Term Exposure: None Known

Chronic Effects: None Known

Section 4 - First Aid Measures

Inhalation: If breathing becomes difficult, remove person from heat welding area and get medical attention.

Eye Contact: If eye irritation continues after welding, flush eyes with water for 15 minutes

Skin Contact: If skin is burned from welding operation, cool with running water. Get medical attention if necessary.

Ingestion: Not Applicable

After first aid, get appropriate in-plant, paramedic, or community medical support.

Note to Physicians: None

Special Precautions/Procedures: None

Section 5 - Fire-Fighting Measures

Flash Point: Above 329 °C

Flash Point Method: Setchkin

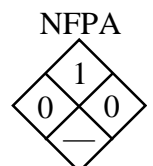
Burning Rate: Not Determined

Autoignition Temperature: >357 °C

LEL: Not Applicable

UEL: Not Applicable

Flammability Classification: Not flammable.



Extinguishing Media: Water spray, dry chemical, foam, or carbon dioxide.
Unusual Fire or Explosion Hazards: None
Hazardous Combustion Products: Toxic gases or vapors, such as carbon monoxide and other organic compounds may be released in a fire.
Fire-Fighting Instructions: Standard procedures for Class A fires. Use self-contained breathing apparatus (SCBA) and protective clothing for structural fire fighting.
Fire-Fighting Equipment: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

Section 6 - Accidental Release Measures

Spill /Leak Procedures: Handle as normal solid waste.
Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.1200).

Section 7 - Handling and Storage

Handling Precautions: Keep away from sparks and open flame.
Storage Requirements: This product may react with strong oxidizing agents and should not be stored near such materials. Best to store rolls in areas protected by automatic sprinklers. Store product below 60°C (140°F) to prevent roll sticking at installation
Regulatory Requirements: Not Applicable

Section 8 - Exposure Controls / Personal Protection

Engineering Controls: Provide adequate ventilation during heat welding.
Ventilation: Heat welding in an outdoor environment will normally provide adequate ventilation.
Administrative Controls: Assure that adequate ventilation is provided during heat welding.
Respiratory Protection: A respiratory protection program that meets OSHA 1910.134, ANSI Z88.2 and / or CSA Z94.4-93 requirements must be followed whenever workplace conditions warrant use of a respirator.
Protective Clothing/Equipment: Work boots and work clothing recommended. Sunglasses which filter out ultraviolet light are strongly recommended since the white surface is highly reflective to sunlight. White surfaces reflect heat and light. Roofing technicians should dress appropriately and wear sunscreen to protect skin from the sun.
Safety Stations: Emergency eyewash stations or source of clean running water recommended in vicinity of project
Contaminated Equipment: Not Applicable
Comments: Never eat, drink, or smoke in work areas. Best to wash hands after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Section 9 - Physical and Chemical Properties

Physical State: Solid	Water Solubility: Practically insoluble in water
Appearance and Odor: White-on-black sheet; slight waxy odor. (white may be replaced by tan, gray, etc)	Other Solubilities: Not Determined
Odor Threshold(ppm): Not Determined	Boiling Point(°C): Not Applicable
Vapor Pressure: Not Applicable	Freezing/Melting Point(°C): >120
Vapor Density (Air=1): Not Applicable	Viscosity: Not Applicable
Formula Weight: Not Applicable	Refractive Index: Not Applicable
Density:	Surface Tension: Not Applicable
Specific Gravity (H₂O=1, at 4 °C): 0.95-1.05	% Volatile: Not Determined
pH: Not Applicable	Evaporation Rate: Not Applicable

Section 10 - Stability and Reactivity

Stability: Stable.
Polymerization: Will not occur.
Chemical Incompatibilities: Any strong oxidizing agent.
Conditions to Avoid: Keep away from heat, sparks or open flame
Hazardous Decomposition Products: Gases or vapors such as carbon monoxide, carbon dioxide, or oxides of nitrogen, and other organic compounds may be released in a fire.

Section 11- Toxicological Information

Toxicity Data:

Eye Effects: None Known
Skin Effects: None Known

Acute Inhalation Effects: None Known
Acute Oral Effects: None Known
Chronic Effects: None Known
Carcinogenicity: No evidence
Mutagenicity: No evidence.
Teratogenicity: No evidence.

Section 12 - Ecological Information

Ecotoxicity: None Known
Environmental Fate: This product is not readily biodegradable
Environmental Degradation: Not Determined
Soil Absorption/Mobility: Not Determined

Section 13 - Disposal Considerations

Disposal: (1) Recycle / reprocess; (2) Incineration including energy recovery of waste material in a permitted facility in accordance with local, state or federal regulations; (3) Landfilling in a licensed facility in accordance with local, state or federal regulations
Disposal Regulatory Requirements: This product is not judged to be a hazardous waste by any local, state or federal regulation. This product is not listed in the U.S. federal hazardous waste regulations, 40 CFR261.33 paragraphs (e) or (f)
Container Cleaning and Disposal: Not Applicable

Section 14 - Transport Information

DOT Transportation Data (49 CFR 172.101):

This product is not regulated by DOT, IMO, IATA, Canadian TDG and associated regulations ADR or RID.

Section 15 - Regulatory Information

EPA Regulations:

RCRA Hazardous Waste Number: Not Listed
RCRA Hazardous Waste Classification: Not Classified
CERCLA Hazardous Substance: Not Listed
CERCLA Reportable Quantity (RQ): Not Listed
SARA 311/312 Codes: This product is not subject to SARA Title III requirements
SARA Toxic Chemical (40 CFR 372.65): Not listed
SARA EHS (Extremely Hazardous Substance) (40 CFR 355): Not Listed

OSHA Regulations:

Air Contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A): Not listed
OSHA Specifically Regulated Substance: Not Listed

State Regulations: California Proposition 65: This product contains the following chemical(s) known to the state of California to cause cancer: None.

Section 16 - Other Information

Prepared By: Research & Development (BG)
Revision Notes:

Additional Hazard Rating Systems:

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