

# Material Safety Data Sheet

**CARLISLE POLYPROPYLENE GEOMEMBRANE**

**MSDS No. 305233**

Date of Preparation: 09/09/2010

Revision: 001

## Section 1 - Chemical Product and Company Identification

**Product/Chemical Name:** Carlisle Polypropylene Geomembrane (Industrial and Potable Grades)  
**Chemical Formula:** Mixture  
**General Use:** Geosynthetic membrane for pond liners, water reservoirs, floating water covers, etc.  
**Manufacturer:** Carlisle Construction Materials Incorporated, 1285 Ritner Highway, Carlisle, PA 17013,  
 Phone: 800-479-6832  
**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	>10
Stabilizers (trade secret)		>5

**Hazardous Ingredients:**

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

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 ☆☆☆☆☆

<b>HMIS</b>	
<b>H</b>	0
<b>F</b>	1
<b>P</b>	0
<b>PPE†</b>	
†Sec. 8	

### Potential Health Effects

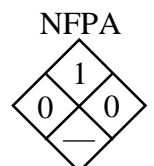
**Primary Entry Routes:** None  
**Target Organs:** Not Applicable  
**Acute Effects**  
**Inhalation:** Inhalation of vapor from this product during heat welding may cause respiratory tract irritation.  
**Eye:** Vapor from this product during heat welding may irritate eyes.  
**Skin:** Exposure to 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 for application of white geomembrane since the white surface is highly reflective to sunlight. White surfaces reflect heat and light.

**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

**Appearance and Odor:** Black-on-black sheet; slight waxy odor. (black top may be replaced by tan, gray, etc)

**Odor Threshold(ppm):** Not Determined

**Vapor Pressure:** Not Applicable

**Vapor Density (Air=1):** Not Applicable

**Formula Weight:** Not Applicable

**Density:**

**Specific Gravity (H<sub>2</sub>O=1, at 4 °C):** 0.95-1.05

**pH:** Not Applicable

**Water Solubility:** Practically insoluble in water

**Other Solubilities:** Not Determined

**Boiling Point(°C):** Not Applicable

**Freezing/Melting Point(°C):** >120

**Viscosity:** Not Applicable

**Refractive Index:** Not Applicable

**Surface Tension:** Not Applicable

**% Volatile:** Not Determined

**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:** Section 1 – Carlisle SynTec Incorporated to Carlisle Construction Materials Incorporated

### Additional Hazard Rating Systems:

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