

Material Safety Data Sheet

Material Name: GenFlex TPO Membrane, GenFlex TPO Plus Membrane, GenFlex TPO Peel & Stick™ Membrane, GenFlex TPO Half Sheets, GenFlex Peel & Stick™ Flashing GenFlex TPO Reinforced Pipe Boots & Out side Corners

GFRS- 301

*** Section 1 - Chemical Product and Company Identification ***

Chemical Description: Mixture

Product Use: Building material

Manufacturer Information

GenFlex Roofing Systems
1722 Indian Wood Circle
Suite A
Maumee, OH 43537

Phone: 800-443-4272

Emergency # 1-800-424-9300 (CHEMTREC)

General Comments

NOTE: CHEMTREC telephone number is to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure, or accident involving chemicals. All non-emergency questions should be directed to customer service.

*** Section 2- Hazards Identification ***

Emergency Overview

This product has the structure of a polymer sheet or formed object. Under normal conditions of use, this product is not expected to create any unusual emergency or health hazards. If the product is burned due to exposure to fire, use normal fire fighting procedures to prevent inhalation of smoke and gases.

Potential Health Effects: Eyes

Under normal conditions of use, this product is not expected to be an eye irritant.

Potential Health Effects: Skin

Under normal condition of use, this product is not expected to be a skin irritant.

Potential Health Effects: Ingestion

Ingestion of this product is unlikely, however, ingestion may cause nausea, vomiting and diarrhea.

Potential Health Effects: Inhalation

During the normal use of this product there is expected to be no inhalation hazard.

HMIS Ratings: Health: 1 Fire: 1 Reactivity: 0 Pers. Prot.: safety glasses/gloves

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

*** Section 3- Composition / Information on Ingredients ***

CAS #	Components	Approx. Percent
9010-79-1	Propylene/ethylene copolymer	20-80
1309-42-8	Magnesium Hydroxide	10-20
13463-67-7	Titanium Dioxide	1-3
Not Applicable	Polyester Fabric	0-30
Trade Secret	Stabilizers	<7
Not Available	Color concentrate	<3
Not Available	Adhesive backing	0-5

Component Related Regulatory Information

Certain components of this product may be regulated, have exposure limits or other information.

Component Information/Information on Non-Hazardous Components

This product has been determined to be an "article", meeting the criteria established in 29CFR1910.1200(b)(6)(v) and does not pose a physical hazard and/or health risk under normal conditions of use.

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*** Section 4 - First Aid Measures ***

First Aid: Eyes

In case of contact with dusts or particulate matter, immediately flush eyes with plenty of water for 15 minutes. If irritation persists, seek medical attention.

First Aid: Skin

For skin contact, promptly wash with soap and water. If irritation develops, get medical attention.

First Aid: Ingestion

If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting unless instructed to do so by medical personnel.

First Aid: Inhalation

If inhaled, remove immediately to fresh air. If symptoms develop or persist, seek immediate medical attention.

First Aid: Notes to Physician

Provide general supportive measures and treat symptomatically.

*** Section 5 - Fire Fighting Measures ***

Flash Point: Not determined

Method Used: Not determined

Upper Flammable Limit (UFL): Not determined

Lower Flammable Limit (LFL): Not determined

Auto Ignition: Not determined

Flammability Classification: Not determined

Rate of Burning: Not determined

General Fire Hazards

Product is a solid material which will burn with a slow, smoldering flame upon heating to high temperature.

Hazardous Combustion Products

Irritating and toxic gases or fumes may be released during a fire.

Extinguishing Media

Dry chemical, foam, carbon dioxide, water fog.

Fire Fighting Equipment/Instructions

Firefighters should wear full protective clothing including self contained breathing apparatus.

NFPA Ratings: Health: 1 Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

*** Section 6 - Accidental Release Measures ***

Containment Procedures

Due to the physical nature of this material, containment is not necessary.

Clean-Up Procedures

Reroll, sweep, shovel, or vacuum up material. Place in appropriate container for disposal.

Evacuation Procedures

Keep unnecessary personnel away.

*** Section 7 - Handling and Storage ***

Handling Procedures

Avoid breathing fumes or dust from this material. Use this product with adequate ventilation. Wash thoroughly after handling.

Storage Procedures

Keep this material in a cool, well-ventilated place.

*** Section 8 - Exposure Controls / Personal Protection ***

Exposure Guidelines

A: General Product Information

Follow all applicable exposure limits.

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B: Component Exposure Limits

Titanium Dioxide (CAS 13463-67-7)

ACGIH: 10 mg/m³ (total dust)

OSHA: 15 mg/m³ (total dust)

Magnesium Hydroxide (CAS 1309-42-8)

ACGIH: 15 mg/m³ (total dust)

OSHA: 10 mg/m³ (total dust)

ACGIH, OSHA and NIOSH have not developed exposure limits for any other components of this product present at or greater than 0.1%.

Engineering Controls

Use general ventilation and use local exhaust, where possible, in confined or enclosed spaces. Special care must be taken to avoid inhalation exposure when using this product at high temperatures and to avoid the generation of dusts.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Wear safety glasses; chemical goggles for fumes which may arise from thermal processing.

Personal Protective Equipment: Skin

Wear impervious gloves for prolonged contact. The use of protective coveralls and long sleeved clothing is recommended for prolonged or repeated contact. Wash thoroughly after use.

Personal Protective Equipment: Respiratory

If ventilation is not sufficient to effectively remove and prevent buildup of dusts or processing fumes, appropriate NIOSH approved HEPA cartridge respirator must be provided.

Personal Protective Equipment: General

Use good industrial hygiene practices in handling this material.

*** Section 9 - Physical & Chemical Properties ***

Appearance: Solid film/sheet White, Grey or Tan	Odor: Characteristic
Physical State: Solid	pH: Not available
Vapor Pressure: Not available	Vapor Density: Not available
Boiling Point: Not available	Melting Point: Not available
Solubility (H₂O): Not available	Specific Gravity: 0.8-1.0
Freezing Point: Not available	Flash Point: Not Determined

*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability

Stable.

Chemical Stability: Conditions to Avoid

Avoid open flame and excessive temperatures.

Incompatibility

This product is not reactive.

Hazardous Decomposition

Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition.

Hazardous Polymerization

Hazardous polymerization will not occur.

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*** Section 11 - Toxicological Information ***

Acute Toxicity

A: General Product Information

No data available for product.

Significant adverse health effects would not be anticipated with normal use. However, thermal processing of the product can emit fumes and vapors which may cause eye, skin, and respiratory system irritation.

B: Component Analysis - LD50/LC50

None of this product's components present at greater than 0.1% have LD50/LC50 data. The components of this product as supplied present at trace levels are not expected to exhibit acute toxicity.

Carcinogenicity

A: General Product Information

No carcinogenicity data available for this product.

Significant adverse health effects would not be anticipated with normal use. However, thermal processing of the product can release products which may be harmful.

B: Component Carcinogenicity

Titanium Dioxide (CAS 13463-67-7)

ACGIH: A4 – Not Classifiable as a Human Carcinogen

IARC: Group 3 – Non Classifiable

No other of this product's components present at or greater than 0.1% are listed by ACGIH, IARC, OSHA, NIOSH or NTP.

Epidemiology

No data available for this product.

Neurotoxicity

No data available for this product.

Mutagenicity

No data available for this product.

Teratogenicity

No data available for this product.

Other Toxicological Information

None available.

*** Section 12 - Ecological Information ***

Ecotoxicity

A: General Product Information

No data available for this product.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

No ecotoxicity data are available for this product's components.

Environmental Fate

No data available for this product.

*** Section 13 - Disposal Considerations ***

US EPA Waste Number & Descriptions

A: General Product Information

Material, if discarded, is not expected to be a characteristic hazardous waste under RCRA.

Waste should be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.

B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

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*** Section 14 - Transportation Information ***

US DOT Information

Shipping Name: Not regulated

Hazard Class: None

UN/NA #: None

Packing Group: None

Required Label(s): None

Additional Info.: None

International Transportation Regulations

Not regulated as dangerous goods.

*** Section 15 - Regulatory Information ***

US Federal Regulations

A: General Product Information

No additional information.

B: Component Analysis

None of this products components are listed under, or present in a quantity requiring reporting under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

State Regulations

A: General Product Information

Other state regulations may apply. Check individual state requirements.

B: Component Analysis - State

The following component(s) appear on one or more of the following state hazardous substance list:

Component	CAS	CA	FL	MA	MN	NJ	PA
Titanium Dioxide	13463-67-7	No	No	Yes	Yes	No	No

Other Regulations

A: General Product Information

No information available for the product.

B: TSCA 12(b) Export Notification

This material has no components listed.

C: Component Analysis – Inventory

Component	CAS #	TSC A	DSL	EINECS
Titanium Dioxide	13463-67-7	Yes	Yes	Yes
Magnesium Hydroxide	1309-42-8	Yes	Yes	Yes

D: Component Analysis - WHMIS IDL

No components are listed in the WHMIS IDL.

*** Section 16 - Other Information ***

Other Information

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use.

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Key/Legend

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; NFPA = National Fire Protection Association; HMIS = Hazardous Material Identification System; CERCLA = Comprehensive Environmental Response, Compensation and Liability Act; SARA = Superfund Amendments and Reauthorization Act

Contact: GenFlex Roofing, R&D Dept

Contact Phone: (800) 443-4272

This is the end of MSDS