

GenFlex Roofing Systems

Material Safety Data Sheet

Material Name: GenFlex® II EPDM Membrane, GenFlex® AFR EPDM Membrane, GenFlex® II FRM Membrane EPDM Flashing (Various Widths), EPDM Pipe Boot, Reinforced Perimeter Strip

February 5, 2008

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

Product Use: Building material

Manufacturer Information

GenFlex Roofing Systems, LLC
250 West 96th Street
Indianapolis, IN 46260

Phone: 317-575-7190 (Non-Emergency)

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

International # 1-703-527-3887 (CHEMTREC)

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

Product is in the form of a flat or molded black solid sheet with rubber odor. Product may be of varying widths and thickness. Under normal conditions of handling this product is not considered hazardous. If dusts, particulates, or fumes are generated they may be irritating to eyes, skin, and respiratory system. Toxic fumes or gases may be released during fire. Fire fighters should wear a self-contained breathing apparatus with a full face piece.

Potential Health Effects: Eyes

Thermal processing or heating of this product may cause dusts, particulates, vapors, and fumes which may cause irritation to the eyes.

Potential Health Effects: Skin

Thermal processing or heating of this product may cause dusts, particulates, vapors, and fumes which may cause irritation to the skin.

Potential Health Effects: Ingestion

Not expected to be an ingestion hazard; however, thermal processing or heating of this product may cause dusts, particulates, vapors, and fumes which may cause temporary irritation of the throat, stomach and gastrointestinal tract.

Potential Health Effects: Inhalation

Inhalation of dried, sanded, or ground dusts and particulates may cause respiratory irritation. Continued overexposure to such dusts and particulates may cause lung damage. Processing dusts contain carbon black which can cause obstructive lung disorders including pneumonitis, chronic bronchitis and lung cancer.

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 #	Component	Percent
1333-86-4	Carbon Black	<20
Not Available	Ethylene-propylene ethylidene (EPDM) mixture	Varies

Component Information/Information on Non-Hazardous Components

This product has been determined to be an (article), meeting the criteria established in 29 CFR1910.1200(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, 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

Upper Flammable Limit (UFL): Not determined

Auto Ignition: Not determined

Rate of Burning: Not determined

General Fire Hazards

Product is non-explosive. This product can react when exposed to higher than normal temperatures. Heavy, dense, black smoke is emitted upon burning.

Hazardous Combustion Products

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Extinguishing Media

Water (preferred), dry chemical, foam.

Fire Fighting Equipment/Instructions

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

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

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

Shovel the material into waste container. If it cannot be reused, place in covered container for disposal.

Evacuation Procedures

Keep unnecessary personnel away.

Special Procedures

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

Handling Procedures

Do not breathe 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.

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

Exposure Guidelines

A: General Product Information

Follow all applicable exposure limits.

B: Component Exposure Limits

Carbon Black (1333-86-4)

ACGIH: 3.5 mg/m³ TWA

OSHA: 3.5 mg/m³ TWA

NIOSH: 0.1 mg PAH's/m³ [carbon black in presence of polycyclic aromatic hydrocarbons (PAHs)]; NIOSH Potential Occupational Carcinogen - see Appendix A; see Appendix C for supplementary exposure limits

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:	Molded or Flat Rubber Sheet	Odor:	Not available
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:	Not available
Freezing Point:	Not available	Flash Point	Not Determined

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

Chemical Stability

Stable.

Chemical Stability: Conditions to Avoid

Avoid open flame and excessive temperatures.

Incompatibility

This product may react with strong oxidizing agents.

Hazardous Decomposition

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Hazardous Polymerization

Hazardous polymerization will not occur.

*** Section 11 - Toxicological Information ***

Acute Toxicity

A: General Product Information

No data available for product. Fumes may be irritating and cause chest discomfort and symptoms of bronchitis. Inhalation of zinc dusts or fumes may cause metal fume fever, an influenza like illness generally lasting 24 hours or less. Carbon black acts as a nuisance dust and can interact with disease states or other exposures (smoking, silica) to reduce pulmonary function or induce fibrosis. Carbon black has been known to weaken the senses of smell and hearing and increase the metabolic rate.

B: Component Analysis - LD50/LC50

Carbon Black (1333-86-4)

Oral LD50 Rat : >15400 mg/kg

Dermal LD50 Rabbit : >3 gm/kg

Carcinogenicity

A: General Product Information

No carcinogenicity data available for this product. Carbon black produced lung tumors in rats chronically exposed to high concentrations via inhalation.

B: Component Carcinogenicity

Carbon Black (1333-86-4)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

NIOSH: occupational carcinogen

IARC: Monograph 65; 1996 (Group 2B (sufficient animal data))

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.

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***** 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

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.

***** 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 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 components appear on one or more of the following state hazardous substances lists:

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Component	CAS #	CA	FL	MA	MN	NJ	PA
Carbon Black	1333-86-4	Yes	No	Yes	Yes	Yes	Yes

Other Regulations

A: General Product Information

No information available for the product.

B: Component Analysis - Inventory

Component	CAS #	TSCA	DSL	EINECS
Carbon Black	1333-86-4	Yes	Yes	Yes

C: Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Carbon Black	1333-86-4	1% item 309 (1271)

*** Section 16 - Other Information ***

Date of Previous MSDS: April 4, 2007

Changes Since Previous MSDS: Section 1 – Deleted size reference in product name and company address change.

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

*** Disclaimer ***

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