

# GenFlex Roofing Systems

## Material Safety Data Sheet

Material Name: TPO Heat Weldable Walkway Pad

February 5, 2008

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

**Product Use:** Walkway pad

**Manufacturer Information**

GenFlex Roofing Systems, LLC  
250 West 96<sup>th</sup> 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 a composite plastic structure. Under normal conditions of use, this product is not expected to create any unusual emergency hazards. If the product is burned due to exposure to fire, use normal fire fighting procedures to prevent inhalation of smoke and gases. Irritating and toxic fumes and gases may be released from this product upon processing or heating.

**Potential Health Effects: Eyes**

Processing or heating of this product may cause dusts, particulates, vapors, and fumes which may cause irritation to the eyes. Symptoms include redness, swelling, tearing and blurred vision.

**Potential Health Effects: Skin**

Processing or heating of this product may cause dusts, particulates, vapors, and fumes which may cause irritation to the skin. Prolonged or repeated contact may cause redness, cracking and may dry and/or defat the skin.

**Potential Health Effects: Ingestion**

Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Potential Health Effects: Inhalation**

Heating this product may release harmful vapors. Excessive inhalation of vapors from this product may be harmful to the respiratory tract. Chronic lung disease (silicosis) and/or lung cancer may result from prolonged/repeated breathing of the dust of this material.

**HMIS Ratings: Health: 1\* Fire: 1 Reactivity: 0 Pers. Prot.:** chemical goggles, impervious gloves

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

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

CAS #	Component	Percent
1317-65-3	Calcium carbonate	25-55
Not Available	Polyolefinic polymers	35-40
Not Available	Phthalate/terephthalate plasticizers	7-10
Not Available	Color Concentrate	1-3
14808-60-7	Quartz	TRACE

**Component Related Regulatory Information**

This product contains mixture components that may be regulated, have exposure limits or other information identified as the following: Silica, crystalline (general form) and calcium carbonate.

**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**

Immediately flush eyes with plenty of water for at least 15 minutes. If irritation develops, seek medical attention.

**First Aid: Skin**

For skin contact, wash with soap and water. If irritation develops, seek 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.

### \*\*\* Section 5 - Fire Fighting Measures \*\*\*

**Flash Point:** Not determined

**Method Used:** Not applicable

**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 not considered a fire hazard, but may burn.

**Hazardous Combustion Products**

Irritating and toxic gases or fumes may be released during a fire. Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

**Extinguishing Media**

Dry chemical, foam, carbon dioxide, water fog. Use water to cool fire-exposed containers and to protect personnel.

**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**

Contain by any means necessary. Eliminate all sources of ignition or flammables that may come into contact with a spill of this material.

**Clean-Up Procedures**

Sweep, shovel, or vacuum up material. Place in appropriate container for disposal. Ventilate the contaminated area. Thoroughly wash the area with water after a spill or leak clean-up.

**Evacuation Procedures**

Isolate area. Keep unnecessary personnel away. Keep materials which can burn away from spilled material.

**Special Procedures**

No information available.

### \*\*\* Section 7 - Handling and Storage \*\*\*

**Handling Procedures**

Avoid breathing dust or fumes if this product is used at high temperatures. Use this product with adequate ventilation. Avoid getting this material into contact with your skin and eyes. Wash thoroughly after handling. Keep this product from heat, sparks, or open flame.

**Storage Procedures**

Keep this material in a cool, well-ventilated place. Eliminate all sources of ignition.

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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

###### Calcium carbonate (1317-65-3)

ACGIH: 10 mg/m<sup>3</sup> TWA (The value is for total dust containing no asbestos and <1% crystalline silica)

OSHA: total dust: 15 mg/m<sup>3</sup> TWA; respirable fraction: 5 mg/m<sup>3</sup> TWA

NIOSH: total: 10 mg/m<sup>3</sup> TWA; respirable dust: 5 mg/m<sup>3</sup> TWA

###### Quartz (14808-60-7 crystalline silica)

ACGIH: 0.025 mg/m<sup>3</sup> TWA (this TLV is for the respirable fraction of dust)

OSHA: respirable dust: 10 mg/m<sup>3</sup> ÷ (% SiO<sub>2</sub> +2) TWA

NIOSH: as respirable dust: 0.05 mg/m<sup>3</sup> TWA; NIOSH Potential Occupational Carcinogen

#### Engineering Controls

Use general ventilation and use local exhaust, where possible, in confined or enclosed spaces. Special care must be taken to avoid generation of dusts.

#### PERSONAL PROTECTIVE EQUIPMENT

##### Personal Protective Equipment: Eyes/Face

Wear chemical goggles; face shield (if splashing is possible).

##### Personal Protective Equipment: Skin

Use impervious gloves. Use of protective coveralls and long sleeves is recommended.

##### Personal Protective Equipment: Respiratory

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

##### Personal Protective Equipment: General

Use good industrial hygiene practices in handling this material.

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

**Appearance:** White Composite plastic structure

**Odor:** None

**Physical State:** Solid

**pH:** Not available

**Vapor Pressure:** Not available

**Vapor Density:** Not available

**Boiling Point:** Not available

**Melting Point:** Not available

**Solubility (H<sub>2</sub>O):** Not available

**Specific Gravity:** Not available

**Flash Point:** Not Determined

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

#### Chemical Stability

Stable under normal conditions.

#### Chemical Stability: Conditions to Avoid

Avoid open flame and excessive temperatures. Keep away from ignition sources and incompatible materials.

#### Incompatibility

Avoid strong oxidizers which react with organic materials.

#### Hazardous Decomposition

Irritating and toxic gases or fumes may be released during a fire. Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

#### Hazardous Polymerization

Hazardous polymerization will not occur.

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### \*\*\* Section 11 - Toxicological Information \*\*\*

#### Acute Toxicity

##### A: General Product Information

No information available for the product. Processing of this product can include formation of dusts, particulates, or fumes which may be irritating to eyes, skin, and respiratory system.

##### B: Component Analysis - LD50/LC50

No LD50/LC50's are available for this product's components.

#### Carcinogenicity

##### A: General Product Information

No information available for the product. This product may contain small amounts of crystalline silica. Silica crystalline, quartz has been shown to cause liver tumors when administered by inhalation to rats; lung tumors when administered to rats intratracheally; blood tumors when administered to rats intrapleurally.

##### B: Component Carcinogenicity

###### Quartz (14808-60-7)

NIOSH: occupational carcinogen

NTP: Suspect Carcinogen; (under Silica, Crystalline (Respirable Size)) (Possible Select Carcinogen)

IARC: Monograph 68, 1997 (inhaled in the form of quartz or cristobalite from occupational sources) (Group 1 (carcinogenic to humans))

#### Epidemiology

No information available for this product.

#### Neurotoxicity

No information available for this product.

#### Mutagenicity

No information available for the product.

#### Teratogenicity

No information available for the product.

### \*\*\* Section 12 - Ecological Information \*\*\*

#### Ecotoxicity

##### A: General Product Information

No information available for product.

##### B: Component Analysis - Ecotoxicity - Aquatic Toxicity

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

#### Environmental Fate

No information available for the 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.

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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.

### \*\*\* 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. This product may contain trace amounts (<0.1%) of Silica, crystalline quartz (14808-60-7).

**B: Component Analysis - State**

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

Component	CAS #	CA	FL	MA	MN	NJ	PA
Calcium carbonate	1317-65-3	No	No	Yes	Yes	No	Yes
Quartz	14808-60-7	No	Yes	Yes	Yes	Yes	Yes

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause cancer.

#### Other Regulations

**A: General Product Information**

No additional information.

**B: Component Analysis - Inventory**

Component	CAS #	TSCA	DSL	EINECS
Calcium carbonate	1317-65-3	Yes	No	Yes
Quartz	14808-60-7	Yes	Yes	Yes

**C: Component Analysis - WHMIS IDL**

No components are listed in the WHMIS IDL.

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**\*\*\* Section 16 - Other Information \*\*\***

**Date of Previous MSDS:** April 4, 2007

**Changes Since Previous MSDS:** Section 1 – Product name change 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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