

GenFlex Roofing Systems Material Safety Data Sheet

Material Name: Waterstop

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)

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

Product is a flammable gray paste. This product is harmful by inhalation, when in contact with the skin and if it is swallowed. Inhalation of vapors may cause CNS depression. This product is a pulmonary aspiration hazard. Firefighters should wear full protective clothing and self contained breathing apparatus. Dry chemical, foam, or carbon dioxide should be used as an appropriate extinguishing media. Water may be ineffective, but water may be used to cool fire-exposed containers and to protect personnel.

Potential Health Effects: Eyes

This product may cause irritation to the eyes. Symptoms include redness, swelling, tearing and blurred vision. Overexposure to vapors, fumes, or particles from this material may cause eye damage, including vacuoles in the cornea and conjunctival irritation.

Potential Health Effects: Skin

This product may be harmful if it is absorbed through the skin. This product 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

This product may be harmful or fatal if swallowed. Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Ingestion of large amounts may produce more serious toxicities. Aspiration of small amounts into the lung may produce severe lung damage, including chemical pneumonitis.

Potential Health Effects: Inhalation

Inhalation of vapors may cause irritation of the respiratory tract. Other symptoms may include signs of CNS depression involving weakness, dizziness, giddiness, loss of coordination and judgment. Cutting, sanding or grinding this dried material may release particles of crystalline silica (quartz). Exposure to airborne particles may cause lung damage including a risk of cancer.

HMIS Ratings: Health: 2* Fire: 3 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	Approx. Weight Percent
471-34-1	Carbonic acid, calcium salt (1:1)	25-50
64742-47-8	Petroleum distillates, hydrotreated light	0-30
64742-54-7	Petroleum distillates, hydrotreated heavy paraffinic	0-30
9002-88-4	Polyethylene	0-30
9003-29-6	Polybutene	0-30
14808-60-7	Quartz	<1

Component Related Regulatory Information

This product may be regulated, have exposure limits or other information identified as the following: Calcium carbonate (1317-65-3), Silica, crystalline (general form).

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Component Information/Information on Non-Hazardous Components

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

*** 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.

First Aid: Notes to Physician

This material, if aspirated into the lungs, may cause chemical pneumonitis; treat the affected person appropriately.

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

Flash Point: 50° F (10° C)

Method Used: Estimated based on flash point of the most volatile component

Upper Flammable Limit (UFL): Not available

Lower Flammable Limit (LFL): 0.9%

Auto Ignition: Not available

Flammability Classification: Flammable

Rate of Burning: Not available

General Fire Hazards

Product is a flammable paste. Highly toxic fumes and gases will be released upon combustion. Empty containers may retain product residue including Flammable or Explosive vapors. Do not cut, drill, grind, or weld near full, partially full, or empty product containers.

Hazardous Combustion Products

Upon combustion the product may yield smoke, fumes, aldehydes, carbon monoxide, carbon dioxide and other 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: 2* Fire: 3 Reactivity: 0

(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

Absorb spilled material with nonflammable inert absorbent. Do not allow the spilled product to enter public drainage system or open water courses. Ventilate the contaminated area. Thoroughly wash the area with water after a spill or leak clean-up.

Evacuation Procedures

Evacuate the area promptly. Keep upwind of the spilled material and isolate exposure.

Special Procedures

Avoid skin contact and inhalation of vapors during disposal of spills.

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

Handling Procedures

Do not breathe gas/fumes/vapor/spray. Use this product with adequate ventilation. Do not get this material in your eyes, on your skin, or on your clothing. 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.

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

Exposure Guidelines

A: General Product Information

Follow all applicable exposure limits.

B: Component Exposure Limits

Carbonic acid, calcium salt (1:1) (471-34-1)

ACGIH: 10 mg/m³ TWA (particulate matter containing no asbestos and <1% crystalline silica) (related to Calcium carbonate)

OSHA: 15 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable fraction) (related to Calcium carbonate)

NIOSH: 10 mg/m³ TWA (total); 5 mg/m³ TWA (respirable dust) (related to Limestone)

Quartz (14808-60-7)

ACGIH: 0.025 mg/m³ TWA (respirable fraction)

OSHA: 30 mg/m³/% SiO₂ + 2 TWA (respirable dust)

NIOSH: 0.05 mg/m³ TWA (respirable dust)

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.

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:	Grey paste.	Odor:	Aliphatic solvent naphtha
Physical State:	Paste	pH:	Not available
Vapor Pressure:	45 mm Hg @ 78 °F (26 °C)	Vapor Density:	3.8 (air = 1)
Boiling Point:	240-285 °F (115-141 °C)	Melting Point:	Not available
Solubility (H₂O):	0.5%	Specific Gravity:	1.20-1.30
Evaporation Rate:	9.2 (ethyl ether = 1)	Weight % Volatile:	13-17%
Weight % VOC:	Approximately 97% by weight	Flash Point	50° (10° C)

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

Chemical Stability

Stable under normal conditions.

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Chemical Stability: Conditions to Avoid

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

Incompatibility

This product may react with strong acids, strong bases and oxidizing agents. Avoid extreme heat which can result in thermal decomposition releasing toxic gases.

Hazardous Decomposition

Upon decomposition this product may yield smoke, fumes, aldehydes, carbon monoxide, carbon dioxide and other low molecular weight hydrocarbons.

Hazardous Polymerization

Hazardous polymerization will not occur.

* * * Section 11 - Toxicological Information * * *

Acute Toxicity

A: General Product Information

No information available for the product. Vapors may be irritating to the skin, eyes and respiratory system. Overexposure to this product may cause central nervous system (CNS) depression with symptoms including nausea, vomiting, weakness, dizziness, giddiness, loss of coordination and judgment. Severe overexposure may cause coma and death due to respiratory failure.

B: Component Analysis - LD50/LC50

Carbonic acid, calcium salt (1:1) (471-34-1)

Oral LD50 Rat: 6450 mg/kg

Petroleum distillates, hydrotreated heavy paraffinic (64742-54-7)

Oral LD50 Rat: >15 gm/kg

Dermal LD50 Rabbit: >5 gm/kg

Polyethylene (9002-88-4)

Inhalation LC50 Mouse: 12 gm/m³/30M

Carcinogenicity

A: General Product Information

No information available for the product. 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 rat's intrapleurally.

B: Component Carcinogenicity

Polyethylene (9002-88-4)

IARC: Supplement 7, 1987; Monograph 19, 1979 (Group 3 (not classifiable))

Quartz (14808-60-7)

ACGIH: A2 - Suspected Human Carcinogen

OSHA: Present

NTP: Known Carcinogen (Select Carcinogen)

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

NIOSH: occupational carcinogen

Epidemiology

No information available for this product.

Neurotoxicity

No information available for this product. Solvents found in this product are central nervous system depressants. Chronic overexposure may produce nervous system damage including intelligence and behavioral changes, loss of memory, fatigue, reduced awareness and damage to hearing and eyesight.

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Mutagenicity

No information available for the product.

Teratogenicity

No information available for the product.

*** Section 12 - Ecological Information ***

Ecotoxicity

No information available for product. Organic solvents may produce significant toxicity to aquatic organisms and ecosystems.

Environmental Fate

No information available for the product.

*** Section 13 - Disposal Considerations ***

US EPA Waste Number & Descriptions

A: General Product Information

If discarded, this product is considered a RCRA ignitable waste, D001. 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: Adhesives

Hazard Class: 3

UN/NA #: UN1133

Packing Group: II

Required Label(s): FLAMMABLE LIQUID

Additional Info.: None.

International Transportation Regulations

International Transportation Regulations

International Air Transportation Association (IATA):

Adhesives

Hazard Class: 3

UN/NA #: UN1133

Packing Group: III

Required Label(s): Flammable Liquid

International Maritime Dangerous Goods (IMDG) Code:

Adhesives

Hazard Class: 3

UN/NA #: UN1133

Packing Group: III

Required Label(s): Flammable Liquid

*** Section 15 - Regulatory Information ***

US Federal Regulations

No additional information.

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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:

Component	CAS	CA	FL	MA	MN	NJ	PA
Carbonic acid, calcium salt (1:1) (related to Calcium carbonate) (related to Limestone)	471-34-1	No	No	Yes ¹	Yes ¹	No	Yes ²
Quartz	14808-60-7	No	Yes	Yes	Yes	Yes	Yes

Other Regulations

A: General Product Information

No additional information.

B: Component Analysis – Inventory

Component	CAS #	TSCA	DSL	EINECS
Carbonic acid, calcium salt (1:1)	471-34-1	Yes	Yes	Yes
Petroleum distillates, hydrotreated light	64742-47-8	Yes	Yes	Yes
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	Yes	Yes	Yes
Polyethylene	9002-88-4	Yes	Yes	No
Polybutene	9003-29-6	Yes	Yes	No
Quartz	14808-60-7	Yes	Yes	Yes

C: Component Analysis - WHMIS IDL

No components are listed in the WHMIS IDL.

*** 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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