

GenFlex Roofing Systems, LLC

Material Safety Data Sheet

July 21, 2010

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SECTION 1: PRODUCT IDENTIFICATION

Product Name:	One Step Insulation Adhesive
Chemical Name /Synonym:	None
Chemical Family:	Mixture
24-Hour Emergency Phone:	(800) 424-9300 CHEMTREC
Manufacturer's Name:	GenFlex Roofing Systems, LLC
Manufacturer's Address:	250 West 96 th Street, Indianapolis, IN 46260
NFPA Hazard Rating (Part A):	Health 2, Flammability 1, Reactivity 1
HMIS Hazard Rating (Part A):	Health 2, Flammability 1, Reactivity 1
NFPA Hazard Rating (Part B):	Health 3, Flammability 0, Reactivity 0
HMIS Hazard Rating (Part B):	Health 3, Flammability 0, Reactivity 0

SECTION 2: CHEMICAL COMPOSITION

Chemical Name:	Common Name:	CAS #:	% (by wt)	Exposure Limits:
<u>PART A</u>				
Polyurethane Polymer	None	TSCA Reg.	40-60	None Established
Methylene Bisphenol Isocyanate	Monomeric MDI	101-68-8	10-30	AIHA TLV 0.005 ppm OSHA Ceiling 0.02 ppm
Polymethylene Polyphenylene Isocyanate	Polymeric MDI	9016-87-9	10-30	None Established
Dimethyl Silicone Polymer with Silica	None	67762-90-7	1-5	None Established
<u>PART B</u>				
Polypropylene Glycol	None	25322-69-4	60-100	None Established
Tertiary Amines	None	TSCA Reg.	1-5	None Established
Dimethyl Silicone Polymer with Silica	None	67762-90-7	1-5	None Established
N-[3-(Trimethoxysilyl)propyl]-1,2-ethanediamine	None	1760-24-3	1-5	None Established

SECTION 3: HAZARD IDENTIFICATION

Primary Route of Exposure:	Inhalation, skin or eye contact.
Signs and Symptoms of Exposure:	This material may irritate the eyes and skin following contact. Skin conditions ranging from localized itching to reddening, swelling, rash, scaling or blistering may occur. Vapors and aerosols can irritate eyes, nose and respiratory passages. Allergic respiratory reaction may include coughing, wheezing, chest pain/tightness, and difficulty breathing. The onset of respiratory symptoms may be delayed for several hours after exposure. Severe overexposure via inhalation may lead to pulmonary

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	edema. Although swallowing this product is an unlikely means of exposure, irritation of the mouth, pharynx, esophagus and stomach can develop following ingestion.
Medical Conditions Aggravated by Exposure:	Individuals with skin allergies or eczema, those who are sensitized to Isocyanates and those with pre-existing lung diseases or conditions, including non-specific bronchial hyperactivity or asthma.
Chronic Effects:	Prolonged contact can cause reddening, swelling, rash, scaling, blistering, and in some cases skin sensitization. MDI can induce respiratory allergic sensitization with asthma-like symptoms. Symptoms include chronic cough, tightness of chest with difficulty in breathing. These symptoms may be immediate or delayed up to several hours after exposure.
Carcinogenicity:	The ingredients of this product are not classified as carcinogenic by ACGIH or IARC, not regulated as carcinogens by OSHA, and not listed as carcinogens by NTP.

SECTION 4: FIRST AID MEASURES

First Aid Procedures:	For eyes, hold eyelids open and wash with gentle stream of water for at least 15 minutes preferably at eyewash fountain. For skin contact wash affected area thoroughly with soap and water. For inhalation, remove to fresh uncontaminated air. If breathing is difficult, give oxygen and seek medical attention. In case of accidental ingestion, if the person is conscious, wash out the mouth with water and give the person 1 or 2 glasses of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention and advise the physician or poison center of the nature of the material.
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SECTION 5: FIRE FIGHTING PROCEDURES

Suitable Extinguishing Media:	Carbon dioxide, dry chemical, dry sand, alcohol-resistant foam. If water is used, use in very large quantities. The reaction between water and hot isocyanate may be vigorous.
Hazardous Combustion Products:	Carbon monoxide, carbon dioxide, nitrogen oxides, hydrocarbons, hydrogen cyanide, and isocyanates.
Recommended Fire Fighting Procedures:	Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Self-contained breathing apparatus with full-face piece and protective clothing. Contain run-off water with temporary barriers.
Unusual Fire and Explosion Hazards:	Under intense heat MDI can polymerize/decompose causing pressure build-up in closed containers and possibly rupture. Violent reaction with alcohols. Avoid water contamination in closed containers which may cause rupture (carbon dioxide is evolved). Do not reseal contaminated containers as pressure buildup may rupture them.

SECTION 6: PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken in Case Material is Released or Spilled:	Evacuate the area and contain spill. Clean-up should only be performed by trained personnel. Prevent further leakage, spillage or entry into drains. Absorb with sawdust or other absorbent material and shovel into acceptable container. Dispose of waste in approved
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Precautions to Be Taken in Handling and Storing:	landfill. People dealing with major spills should wear full protective clothing including a full-face supplied air respirator. Surfaces may become slippery after a spill; so caution must be used to prevent injury from slips and falls. Use in well-ventilated area. Store containers in dry, well-ventilated area, at temperatures 65°-80° F. Keep tightly sealed to prevent moisture contamination. Once opened, protect contents from water. If isocyanate becomes contaminated, do not reseal. Avoid direct skin and eye contact.
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SECTION 7: EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation:	If needed, use local exhaust to keep airborne concentrations below applicable exposure limits.
Respiratory Protection:	If airborne concentrations exceed the established exposure limits based on employer determined exposure monitoring or if chemical concentrations are unknown, use a NIOSH approved respirator.
Eye Protection:	Use safety glasses with side shields or chemical tight goggles; full-face shield in addition if eye contact is possible.
Skin Protection:	Rubber gloves may be necessary to avoid direct skin contact.
Other:	Typically none required.
Work / Hygienic Practices:	Wash exposed skin prior to eating, drinking or smoking and at the end of each shift. Wash contaminated clothing prior to reuse.

SECTION 8: PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor:	Two-part epoxy system consisting of two viscous liquids; faint odor.		
Flash Point:	>350° F	Lower Explosive Limit:	Unknown
Method Used:	PM cc	Upper Explosive Limit:	Unknown
Evaporation Rate:	Unknown	Boiling Point:	Unknown
pH:	Part A: Unknown Part B: 9-10	Melting Point:	Unknown
Solubility in Water:	Insoluble, reacts	Specific Gravity:	Part A: 1.1 Part B: 0.98
Vapor Density:	Unknown	Percent Volatile:	<0.15
Vapor Pressure:	Unknown		

SECTION 9: STABILITY AND REACTIVITY

Thermal Stability:	Stable at room temperature.
Hazardous Polymerization:	Polymerization may occur from contact with water, alcohols, glycols, alkalis, tertiary amines, metal products, and other materials containing active hydrogen.
Conditions to Avoid:	Avoid any type contamination. Avoid contact with water. Reacts with water/moisture, producing carbon dioxide (pressure). Reacts with any material containing an active hydrogen group, causing an exothermic reaction. Avoid contact with alcohols, bases, acids, tertiary amines and metal compounds.

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SECTION 10: TRANSPORTATION

Regulatory Agency:	Not Regulated
Proper Shipping Name:	Not Applicable
Hazard Classification:	Not Applicable
Identification Number:	Not Applicable
Labels Required:	Not Applicable
Other Requirements:	Not Applicable

SECTION 11: MISCELLANEOUS INFORMATION

Additional Comments:	Medical supervision for all employees who handle or come in contact with respiratory sensitizers is recommended. Persons with recurrent skin eczema or skin allergies should be evaluated for their suitability for working with this product.
Date of Previous MSDS:	March 11, 2009
Changes Since Previous MSDS:	New format.
Telephone Number for Additional Information:	(317) 575-7190

DISCLAIMER

The information contained herein is based on data considered accurate which has been obtained from other companies and organizations. However, no warranty or representation is expressed or implied that the information, is accurate, complete or representative. GenFlex Roofing Systems, LLC, a subsidiary of Firestone Diversified Products, LLC, assumes no responsibility for injury to the buyer, the buyer's employees, or any third persons, if reasonable safety procedures are not followed. Additionally, GenFlex Roofing Systems, LLC assumes no responsibility for injury to buyer, the buyer's employees, or any third persons caused by abnormal use of this material, even if reasonable safety procedures are followed.