

# Firestone Building Products Company

## Material Safety Data Sheet

October 3, 2012

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### SECTION 1: PRODUCT IDENTIFICATION

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Product Name: UltraFlash Liquid Flashing, Part B Activator II  
Chemical Name /Synonym: Polymeric Diisocyanate  
Chemical Family: Diisocyanate  
24-Hour Emergency Phone: (800) 424-9300 CHEMTREC  
Manufacturer's Name: Firestone Building Products Company  
Manufacturer's Address: 250 West 96<sup>th</sup> Street, Indianapolis, IN 46260  
NFPA Hazard Rating: Health 3, Flammability 1, Reactivity 1  
HMIS Hazard Rating: Health 3, Flammability 1, Reactivity 1

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### SECTION 2: CHEMICAL COMPOSITION

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Chemical Name:	Common Name:	CAS #:	% (by wt)	Exposure Limits:
Polymethylene Polyphenyl Isocyanate <i>containing</i>	Polymeric MDI	9016-87-9	100	None Established
Diphenylmethane diisocyanate	Monomeric MDI	101-68-8		ACGIH TLV 0.005 ppm OSHA Ceiling 0.02 ppm

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### SECTION 3: HAZARD IDENTIFICATION

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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, including localized itching, redness, burning sensation, and/or dermatitis may occur from prolonged or repeated skin contact. Vapors and aerosols can irritate eyes, nose and respiratory passages. The onset of respiratory symptoms may be delayed for several hours after exposure. Severe overexposure via inhalation may lead to pulmonary edema. Although swallowing this product is unlikely a means of exposure, irritation of the mouth, pharynx, esophagus and stomach can develop following ingestion.

Medical Conditions Aggravated by Exposure: Individuals who are sensitized to Isocyanates and those with pre-existing lung diseases or conditions, including non-specific bronchial hyperactivity or asthma.

Chronic Effects: Skin sensitization and/or irritation may develop after repeated and/or prolonged contact with human skin. MDI can induce respiratory allergic sensitization with asthma-like symptoms. Symptoms include chronic cough and 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.

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### SECTION 4: FIRST AID MEASURES

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**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

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**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 isocyanate may be vigorous.

**Hazardous Combustion Products:** Carbon monoxide, carbon dioxide, nitrogen oxides, MDI, hydrogen cyanide.

**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.

**Unusual Fire and Explosion Hazards:** Water contamination will produce carbon dioxide. Avoid water contamination in closed containers which may cause rupture (carbon dioxide is evolved). Containers may burst under intense heat. Violent reaction with alcohols. Do not reseal contaminated containers as pressure buildup may rupture them.

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### SECTION 6: PRECAUTIONS FOR SAFE HANDLING AND USE

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**Steps to Be Taken in Case Material is Released or Spilled:** Contain spill. Clean-up should only be performed by trained personnel. Absorb with sawdust or other absorbent material and shovel into acceptable container. Dispose of waste in approved landfill. People dealing with major spills should wear full protective clothing including a full-face supplied air respirator. Evacuate the area. Prevent further leakage, spillage or entry into drains.

**Precautions to Be Taken in Handling and Storing:** Store containers between 70° F and 95° F, out of sunlight. Keep tightly sealed to prevent moisture contamination. Relieve pressure slowly when opening container. Once opened, protect contents from water with dry atmosphere. If material becomes contaminated, do not reseal.

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### SECTION 7: EXPOSURE CONTROLS / PERSONAL PROTECTION

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**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:** As determined by the end-user, safety glasses with side shields or chemical tight goggles may be warranted. A full-face shield in addition to glasses if splashing is possible.

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Skin Protection:	Rubber gloves is warranted if prolonged and/or repeated skin contact is likely.
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.

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### SECTION 8: PHYSICAL AND CHEMICAL PROPERTIES

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Appearance and Odor:	Brown liquid, musty odor.		
Flash Point:	>400° F	Lower Explosive Limit:	Unknown
Method Used:	Unknown	Upper Explosive Limit:	Unknown
Evaporation Rate:	Unknown	Boiling Point:	597° F (decomposes)
pH:	Unknown	Melting Point:	Unknown
Solubility in Water:	Reacts with water	Specific Gravity:	1.24 g/ml
Vapor Density:	8.5 (air = 1)	Percent Volatile:	Unknown
Vapor Pressure:	<0.00001 mm Hg @ 77° F		

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### SECTION 9: STABILITY AND REACTIVITY

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Thermal Stability:	Stable when properly stored. Polymerizes at temperatures above 320° F.
Hazardous Polymerization:	May occur from contact with strong bases, or at temperatures above 320° F.
Conditions to Avoid:	Avoid contamination or contact with water, acid or strong alkalies, alcohols, amines, alkalies, metal compounds (catalysts), soaps and detergents, strong oxidizers.

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### SECTION 10: TRANSPORTATION

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Regulatory Agency:	Not regulated
Proper Shipping Name:	Not applicable
Identification Number:	Not applicable
Packaging Group:	Not applicable
Labels Required:	Not applicable

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### SECTION 11: MISCELLANEOUS INFORMATION

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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:	August 17, 2010
Changes Since Previous MSDS:	Throughout due to change to product composition.
Telephone Number for Additional Information:	(317) 575-7190

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## DISCLAIMER

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