

# Firestone Building Products Company

## Material Safety Data Sheet

September 3, 2009

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### SECTION 1: PRODUCT IDENTIFICATION

Product Name: Modified Bitumen Cold Adhesives  
 Chemical Name / Synonym: MB Cold Adhesive, MB 2C Cold Adhesive, MB Flashing Cement, and Firestone SBS Flex Adhesive  
 Chemical Family: Mixture  
 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 1, Flammability 2, Reactivity 0  
 HMIS Hazard Rating: Health 1, Flammability 2, Reactivity 0

### SECTION 2: CHEMICAL COMPOSITION

Chemical Name:	Common Name:	CAS #:	% (by wt)	Exposure Limits:
Asphalt (Petroleum)	Bitumen	8052-42-4	<55	TLV 0.5 mg/m <sup>3</sup> (Inhalable)
Stoddard Solvent	Mineral Spirits	8052-41-3	<20	PEL 500 ppm TLV 100 ppm
Nonhazardous as per 29 CFR 1910.1200.	None	None	>25	None Established

### SECTION 3: HAZARD IDENTIFICATION

Primary Route of Exposure: Inhalation

Signs and Symptoms of Exposure: Eye contact may cause moderate eye irritation, redness, tearing and blurred vision. Prolonged or repeated skin contact may cause irritation, dermatitis and drying of the skin. Inhalation may cause respiratory system irritation and central nervous system depression (narcosis) characterized by headache, dizziness, muscular weakness and fatigue. May cause unconsciousness if exposure is excessive. Stoddard solvent LC<sub>50</sub>: 8 gm/m<sup>3</sup>/8H-C, dog; stoddard solvent LD<sub>50</sub>: >5 g/kg, Rat.

Medical Conditions Aggravated by Exposure: Pre-existing lung, skin or nervous system disorders may be aggravated by exposure to this material.

Chronic Effects: May cause kidney, ureter, bladder and blood damage based upon animal studies.

Carcinogenicity: Animal inhalation studies have not yielded sufficient evidence of asphalt induced lung cancer and only limited investigation has been done on the chemical properties and the metabolic changes caused by petroleum asphalt fumes. A roofing petroleum asphalt proved non-carcinogenic to the skin of mice and rabbits, although the condensates of coal tar fumes proved highly carcinogenic.  
 Petroleum asphalt is listed by IARC as a class 3, *unclassifiable as to carcinogenicity in humans*.

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### SECTION 4: FIRST AID MEASURES

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First Aid Procedures:	If this material contacts the eyes, hold eyelids open and flush immediately with a gentle stream of water for at least 15 minutes, preferably at an eyewash fountain. In case of skin contact, clean with rubbing alcohol first, followed immediately by washing affected area with soap and water. For inhalation of this product's vapor, remove to fresh air and treat symptomatically. In case of accidental ingestion, do not induce vomiting. Get medical attention and advise the physician of the nature of the material.
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### SECTION 5: FIRE FIGHTING PROCEDURES

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Suitable Extinguishing Media:	Alcohol foam, carbon dioxide, or dry chemical.
Hazardous Combustion Products:	Carbon dioxide, carbon monoxide, partially burned carbon and acrid fumes.
Recommended Fire Fighting Procedures:	Wear impermeable protective clothing and self-contained breathing apparatus as toxic fumes and vapors may be evolved.
Unusual Fire and Explosion Hazards:	Heat builds up pressure in closed containers. Cool with a water stream.

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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:	Remove ignition sources. Absorb on inert material. Use non-sparking tools. Place in secure containers for disposal.
Precautions to Be Taken in Handling and Storing:	Keep away from heat, sparks, and open flames. Keep containers closed. Vapors of this material are heavier than air and will collect in low or confined areas. Containers, even those that have been emptied, can contain explosive vapors. Do not cut, drill, grind, weld or perform similar operations on or near containers.

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### SECTION 7: EXPOSURE CONTROLS / PERSONAL PROTECTION

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Ventilation:	Use in well ventilated area.
Respiratory Protection:	If personal exposure concentrations cannot be maintained below the appropriate exposure limits using engineering controls, a NIOSH approved organic vapor air purifying respirator may be appropriate based on employer-determined exposure conditions. Air supplied or SCBA respirators may be required when the measured chemical concentration exceeds the capacity of the air purifying respirator or when personal exposure levels are unknown.
Eye Protection:	The use of safety glasses with side shields when handling or applying this product may be warranted.
Skin Protection:	The use of nitrile or polyvinyl alcohol gloves for direct handling may be warranted.
Other:	None recommended

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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:	Black, Mild, non residual		
Flash Point:	>105 °F	Lower Explosive Limit:	1.0%
Method Used:	Cleveland open tester (ASTM D92-78)	Upper Explosive Limit:	5.0%
Evaporation Rate:	Not Applicable	Boiling Point:	323 °F
pH (undiluted product):	Not Applicable	Melting Point:	Unknown
Solubility in Water:	Insoluble	Specific Gravity:	1.14 (Water=1)
Vapor Density:	5.2 (Air=1)	Percent Volatile:	Unknown
Vapor Pressure:	1.7		

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### SECTION 9: STABILITY AND REACTIVITY

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Thermal Stability:	Stable
Hazardous Polymerization:	Will Not Occur
Conditions to Avoid:	Keep away from strong oxidizers.

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### SECTION 10: TRANSPORTATION

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Regulatory Agency:	USA, DOT
Bulk or Non-Bulk:	Flammable liquid, n.o.s., (Petroleum Distillates), NA 1993, Class 3, Packaging Group - III, Label - Flammable Liquid
Or Bulk (elevated temperature):	Elevated temperature liquid, flammable liquid, n.o.s., (Petroleum Distillates), Class 3, UN3256, Packaging Group III

Note: If bulk departs below its flash point then NA1993; but if it is at or above flash point, then UN3256.

Regulatory Agency:	IATA
Flammable liquid, n.o.s., (Petroleum Distillates), 3, UN1993, III	

Regulatory Agency:	IMDG
IMDG Code 2.3.2.5 – exempt from marking, labeling & testing of packages.	
Other requirements:	49 CFR 173.150 (f) Combustible liquid, Flash point 105 °F Limited to ground transportation

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### SECTION 11: MISCELLANEOUS INFORMATION

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Additional Comments:	None
Date of Previous MSDS:	June 29, 2009
Changes Since Previous MSDS:	Transportation information in section 10.
Telephone Number for Additional Information:	(317) 575-7190

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DISCLAIMER

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