

# Firestone Building Products Company

## Material Safety Data Sheet

June 27, 2008

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### SECTION 1: PRODUCT IDENTIFICATION

Product Name:	BUR Base Sheets
Chemical Name / Synonym:	MB Base Sheet, MB Base Sheet Plus, and Firestone Venting Base
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 1, Reactivity 0
HMS Hazard Rating:	Health 1, Flammability 1, Reactivity 0

### SECTION 2: CHEMICAL COMPOSITION

Chemical Name:	Common Name:	CAS #:	% (by wt)	Exposure Limits:
Asphalt (Petroleum)	Bitumen	8052-42-4	<60	TLV 0.5 mg/m <sup>3</sup> (Inhalable)
Silica, Crystalline, Quartz	Rose Quartz, Sand	14808-60-7	<43	PEL <sub>(Respirable)</sub> $\frac{10 \text{ mg/m}^3}{(\% \text{ SiO}_2 + 2)}$ PEL <sub>(Total)</sub> $\frac{30 \text{ mg/m}^3}{(\% \text{ SiO}_2 + 2)}$ TLV <sub>(Respirable)</sub> 0.025 mg/m <sup>3</sup>
Calcium Carbonate	Limestone	1317-65-3	<35	PEL <sub>(Respirable)</sub> 5 mg/m <sup>3</sup> PEL <sub>(Total)</sub> 15 mg/m <sup>3</sup>
Heavy Naphthenic Distillate	Petroleum Distillate	64742-34-3	<3	None Established
Heavy Naphthenic Extract	Petroleum Extract	64742-11-6	<3	None Established
Fibrous Glass	Fiberglass	None	<8	TLV 1 f/cc TLV 5 mg/m <sup>3</sup> (inhalable)
Nonhazardous as per 29 CFR 1910.1200.	None	None	>6	None Established

### SECTION 3: HAZARD IDENTIFICATION

Primary Route of Exposure:	Inhalation
Signs and Symptoms of Exposure:	Causes a foreign body reaction (mechanical irritation) when dust particles enter eyes. Fumes generated by molten asphalt may cause eye, skin and respiratory tract irritation. Molten asphalt will cause thermal burns.
Medical Conditions Aggravated by Exposure:	None Known
Chronic Effects:	No significant health effects have been reported in surveys of asphalt workers in oil refineries and in the roofing industry. Prolonged and repeated exposure to crystalline silica containing dust can result in injury to the lungs. This condition is known as silicosis. Silicosis is characterized by the shortness of breath,

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Carcinogenicity: decreased expansion of the chest, dry cough, leading to fatigue, dyspnea, and cyanosis, loss of appetite, pleuritic pain and decreased work capacity. The heavy naphthenic distillate and heavy naphthenic extract portions of this product (MB Base Sheet Plus only) have caused skin tumors in rabbits and rodents at site of application over time.

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. Direct implantation of glass fibers into the lung tissue of laboratory animals has produced lung fibrosis and lung cancer. Human epidemiological studies of inhalation exposure have yielded negative results.

Petroleum asphalt is listed by IARC as a class 3, *unclassifiable as to carcinogenicity in humans*.

Crystalline silica is listed by IARC as a class 1, *carcinogenic to humans*, and listed by NIOSH as a carcinogen.

Continuous filament glass fibers 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: Hold eyelids open and wash with gentle stream of water until foreign material is removed. Get medical attention if irritation persists. For inhalation of the fume, smoke or dust of this material, remove to fresh air and treat symptomatically. For thermal burns, flush the affected area with cold water and seek medical attention.

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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 and partially burned Carbon.

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: Combustion of this product produces dense black smoke.

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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: None Required.

Precautions to Be Taken in Handling and Storing: Keep away from heat, sparks and open flames. Care should be taken to minimize the amount of dust generated when applying or handling this product. The amount of dust generated while handling this product is expected to vary depending on the user's application.

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### SECTION 7: EXPOSURE CONTROLS / PERSONAL PROTECTION

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Ventilation:	Use in well ventilated area.
Respiratory Protection:	A NIOSH-approved respirator may be warranted, based upon end-user determination.
Eye Protection:	Safety glasses with side shields may be needed as determined by end-user.
Skin Protection:	Leather or cotton gloves may be required for direct handling.
Other:	None recommended
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 mat with sand surface. Vent Base has ceramic granules on lower surface. Asphalt odor.		
Flash Point:	Not Applicable	Lower Explosive Limit:	None
Method Used:	Not Applicable	Upper Explosive Limit:	None
Evaporation Rate:	Not Applicable	Boiling Point:	None
pH (undiluted product):	Not Applicable	Melting Point:	200° F
Solubility in Water:	Insoluble	Specific Gravity:	1.05
Vapor Density:	Not Applicable	Percent Volatile:	Unknown
Vapor Pressure:	Not Applicable		

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### SECTION 9: STABILITY AND REACTIVITY

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Thermal Stability:	Stable
Hazardous Polymerization:	Will not occur
Conditions to Avoid:	Strong oxidizing agents

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### SECTION 10: TRANSPORTATION

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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

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### SECTION 11: MISCELLANEOUS INFORMATION

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Additional Comments:	The calcium carbonate is bound in an asphalt matrix, and the fibrous glass is encased in an asphalt coating, neither of which is expected to be released. The sand is applied to the asphalt surface in such a manner that nominal release from the surface is anticipated. Care should be taken to protect against the fume and dust that may be generated during heating and/or cutting of this product during application.
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Fiberglass is bound within the oxidized-asphalt matrix of this product in such a way that the release of fibers is expected only when the material is cut, buffed or altered. This product may contain small amounts (<0.1%) of formaldehyde that may be released under high heat and high humidity conditions. This could cause upper respiratory tract or skin irritation. If sensitization occurs, further exposure to formaldehyde may worsen existing conditions or cause allergic reactions. Inhalation of formaldehyde vapors has been associated with cancers of the lung and upper respiratory (nasal) system. Formaldehyde is classified as an OSHA Carcinogen, NIOSH carcinogen, ACGIH Suspected Human Carcinogen, NTP Reasonably Anticipated Human Carcinogen, and an IARC Class 1 Carcinogen (Carcinogenic to Humans)

Date of Previous MSDS: August 8, 2006

Changes Since Previous MSDS: Address change in section 1, TLV changes in section 2, carcinogenicity information in section 3.

Telephone Number for Additional Information: (317) 575-7190

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