

# Firestone Building Products Company

## Material Safety Data Sheet

August 13, 2008

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### SECTION 1: PRODUCT IDENTIFICATION

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Product Name: XR Bonding Adhesive  
Chemical Name /Synonym: 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 2, Flammability 3, Reactivity 0  
HMIS Hazard Rating: Health 2, Flammability 3, Reactivity 0

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### SECTION 2: CHEMICAL COMPOSITION

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Chemical Name:	Common Name:	CAS #:	% (by wt)	Exposure Limits:
Methyl Ketone	Acetone	67-64-1	<55	OSHA PEL 1000 ppm ACGIH TLV 500 ppm ACGIH STEL 750 ppm
2,6-dimethylheptan-4-one	Diisobutyl Ketone	108-83-8	<10	OSHA PEL 50 ppm ACGIH TLV 25 ppm
Nonhazardous as per 29 CFR 1910.1200.	None	None	>35	None Established

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### SECTION 3: HAZARD IDENTIFICATION

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Primary Route of Exposure: Skin Absorption, Inhalation  
Signs and Symptoms of Exposure: May cause irritation to the eyes, nose and throat. Other symptoms may include headache, dizziness, muscular weakness and fatigue, dryness of the mouth and throat, nausea, uncoordinated movements, loss of coordinated speech, drowsiness, and in extreme cases, coma. Prolonged or repeated skin contact may cause irritation, dermatitis and drying of the skin. Absorption through intact skin may contribute to an individual's overall exposure.  
Acetone LC<sub>50</sub>: 16,000 ppm/4hr, rat; acetone LD<sub>50</sub>: 9.8 g/kg, rat; diisobutyl ketone LD<sub>50</sub>: 5.8 g/kg, rat.  
Medical Conditions Aggravated by Exposure: Exposure to this product may aggravate pre-existing skin, kidney, heart and respiratory diseases.  
Chronic Effects: Chronic exposure to high concentrations of vapors may cause kidney or lung disease or affect the heart or central nervous system.  
Carcinogenicity: None

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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. Get medical attention. In case of skin contact, clean with rubbing alcohol first, followed immediately by washing affected area with soap and water. In case of inhalation,

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remove to fresh uncontaminated air. Administer oxygen if breathing is labored. Give artificial respiration if breathing has stopped. Get medical attention immediately if oxygen or artificial respiration are administered. 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:	Carbon dioxide, dry chemical, alcohol foam or water fog. Do not use a direct stream of water. Product will float and can be reignited on the surface of the water.
Hazardous Combustion Products:	Carbon dioxide and carbon monoxide, oxides of nitrogen, various hydrocarbons, acrid smoke and irritating fumes.
Recommended Fire Fighting Procedures:	Wear impermeable protective clothing and self-contained breathing apparatus. Toxic fumes and vapors may be evolved.
Unusual Fire and Explosion Hazards:	Heat builds up pressure in closed containers. Cool with 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. Keep unprotected persons away. Absorb on inert material. Use non-sparking tools. Place in secure containers for disposal.
Precautions to Be Taken in Handling and Storing:	Store in cool, dry conditions and keep containers tightly sealed. Keep away from heat, sparks, and open flames. 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 near containers. Static electricity may accumulate and create a fire hazard. Ground fixed equipment. Bond and ground all transfer containers and equipment.

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### SECTION 7: EXPOSURE CONTROLS / PERSONAL PROTECTION

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Ventilation:	Use in a well-ventilated location.
Respiratory Protection:	If personal exposure concentrations cannot be maintained below the appropriate exposure limits using engineering controls, a NIOSH approved respirator may be appropriate based on employer-determined exposure levels.
Eye Protection:	The use of safety glasses with side shields when pouring or applying this product may be warranted.
Skin Protection:	The use of protective gloves may be warranted when handling this product to avoid prolonged skin contact.
Other:	Not 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 with a characteristic odor.		
Flash Point:	-2° F	Lower Explosive Limit:	2.6
Evaporation Rate:	Not Determined	Upper Explosive Limit:	13
pH:	Not Determined	Boiling Point:	131° F
Solubility in Water:	Insoluble	Melting Point:	Not Applicable
Vapor Density:	Not Determined	Specific Gravity:	0.882
Vapor Pressure:	175 mm Hg @68° F	Percent Volatile:	64

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### SECTION 9: STABILITY AND REACTIVITY

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Thermal Stability:	Stable
Hazardous Polymerization:	Will not occur
Conditions to Avoid:	Avoid flames, sparks or other sources of ignition. Incompatible with acids, alkalies and strong oxidizing agents.

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### SECTION 10: TRANSPORTATION

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Regulatory Agency:	U.S.A., DOT, IMO
Proper Shipping Name:	Adhesives
Hazard Classification:	3
Identification Number:	UN1133
Packing Group:	II
Labels Required:	Flammable Liquid
Other Requirements:	49 CFR 172.101 Adhesives, UN1133, IMDG Class 3.2, Pg. 3174, Flash Point -19° C

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### SECTION 11: MISCELLANEOUS INFORMATION

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Additional Comments:	None
Date of Previous MSDS:	December 9, 2005
Changes Since Previous MSDS:	Address change in section 1.
Telephone Number for Additional Information:	(317) 575-7190

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### DISCLAIMER

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