

Firestone Building Products Company

Material Safety Data Sheet

April 14, 2009

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SECTION 1: PRODUCT IDENTIFICATION

Product Name:	Lap Seam Sealant LS-3029A1
Chemical Name / Synonym:	EPDM 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 th Street, Indianapolis, IN 46260
NFPA Hazard Rating:	Health 2, Flammability 3, Reactivity 0
HMS Hazard Rating:	Health 2, Flammability 3, Reactivity 0

SECTION 2: CHEMICAL COMPOSITION

Chemical Name:	Common Name:	CAS #:	% (by wt)	Exposure Limits:
Aliphatic Petroleum Distillates	Naphtha	64742-89-8	<17	None Established
Carbon Black	Channel Black	1333-86-4	<5	PEL 3.5 mg/m ³ TLV 3.5 mg/m ³
Calcium Carbonate	Limestone	1317-65-3	<15	PEL _(Respirable) 5 mg/m ³ PEL _(Total) 15 mg/m ³
Silica, Crystalline, Quartz	Rose Quartz, Sand	14808-60-7	<40	PEL _(Respirable) 10 mg/m ³ (% SiO ₂ + 2) PEL _(Total) 30 mg/m ³ (% SiO ₂ + 2) TLV _(Respirable) 0.025 mg/m ³
Nonhazardous as per 29 CFR 1910.1200.	None	-	>23	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. Aliphatic Petroleum Distillate LC ₅₀ : 3,400 ppm/4hr, Rat; Aliphatic Petroleum Distillate LD ₅₀ : >8 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 and liver damage. May cause brain cell and neuromuscular damage based upon animal studies. 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

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Carcinogenicity:	shortness of breath, decreased expansion of the chest, dry cough, leading to fatigue, dyspnea, and cyanosis, loss of appetite, pleuritic pain and decreased work capacity. Carbon black is an IARC class 2B carcinogen (<i>possibly carcinogenic to humans: limited evidence in humans in the absence of sufficient evidence in experimental animals</i>). Crystalline silica is listed by IARC as a Class 1 (<i>carcinogenic to humans</i>) and by NTP as a <i>known to be a human carcinogen</i> .
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SECTION 4: FIRST AID MEASURES

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, 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

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, hydrogen chloride, various hydrocarbons, phenols, 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.

SECTION 6: PRECAUTIONS FOR SAFE HANDLING AND USE

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 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

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 organic vapor air purifying respirator may be appropriate based on employer-determined exposure levels. 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:	Wear safety glasses with side shields or chemical splash goggles when using this product.
Skin Protection:	Wear nitrile or polyvinyl alcohol gloves for direct handling.
Other:	Not required.
Work / Hygienic Practices:	Wash exposed skin prior to eating, drinking and smoking and at the end of each work shift. Wash contaminated clothing prior to reuse.

SECTION 8: PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor:	Black viscous liquid with solvent odor.		
Flash Point:	52°F	Lower Explosive Limit:	0.9%
Method Used:	TCC	Upper Explosive Limit:	6.7%
Evaporation Rate:	9.2 (Ethyl Ether=1)	Boiling Point:	240°F
pH (undiluted product):	Unknown	Melting Point:	Unknown
Solubility in Water:	Negligible	Specific Gravity:	1.1 (Water=1)
Vapor Density:	3.8 (Air=1)	Percent Volatile:	0.45
Vapor Pressure:	45 mm Hg @ 78°F		

SECTION 9: STABILITY AND REACTIVITY

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.

SECTION 10: TRANSPORTATION

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 11 °C.

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SECTION 11: MISCELLANEOUS INFORMATION

Additional Comments:	None
Date of Previous MSDS:	July 15, 2009
Changes Since Previous MSDS:	Company name change
Telephone Number for Additional Information:	(317) 575-7190

DISCLAIMER

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