

Firestone Building Products Company

Material Safety Data Sheet

February 9, 2009

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SECTION 1: PRODUCT IDENTIFICATION

Product Name:	General Purpose Sealant S-40A
Chemical Name / Synonym:	Silicone
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 1, Flammability 1, Reactivity 0
HMS Hazard Rating:	Health 2, Flammability 1, Reactivity 0

SECTION 2: CHEMICAL COMPOSITION

Chemical Name:	Common Name:	CAS #:	% (by wt)	Exposure Limits:
Aminoethylamino-Propyltrimethoxy-Silane	None	1760-24-3	2	None Established
Silica, Amorphous Fumed	Synthetic Amorphous Silica	112945-52-5	12	PEL <u>80 mg/m³</u> (% SiO ₂)
Ethoxytri (Ethylmethyl-Ketoxime) Silane	None	101371-00-0	1	None Established
Methyltri (Ethylmethyl-Ketoxime) Silane	None	22984-54-9	2	None Established
Dietyoxydi(Ethylmethyl-ketoxime) Silane	None	93917-75-0	1	None Established
Nonhazardous as per 29 CFR 1910.1200.	None	None	80	None Established

SECTION 3: HAZARD IDENTIFICATION

Primary Route of Exposure:	Skin Contact, Inhalation
Signs and Symptoms of Exposure:	Direct contact with eyes can irritate slightly to moderately with redness and swelling. A single short exposure to skin (less than 24 hours) may irritate. Repeated prolonged contact (24 to 48 hours) may irritate moderately. Inhaling vapors may cause drowsiness, injure blood and irritate eyes, nose and throat. Swallowing large amounts may injure slightly. Silane LC ₅₀ >50 mg/l, Ketoxime Rat; Silane LD ₅₀ : 7,460 mg/kg, Amino Rat; Amorphous Silica LD ₅₀ : 3,160 mg/kg, Rat; LD ₅₀ Silane: >1,000 mg/kg, Ketoxime Rat.
Medical Conditions Aggravated by Exposure:	None known
Chronic Effects:	The oximes shown in Section 2 are possible skin sensitizers.
Carcinogenicity:	None

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SECTION 4: FIRST AID MEASURES

First Aid Procedures: For eyes, flush with water for 15 minutes. For skin, wipe off and flush with water. If inhaled, remove to fresh air. Get medical attention if ingested or any reactions develop.

SECTION 5: FIRE FIGHTING PROCEDURES

Suitable Extinguishing Media: CO₂, dry chemical, or alcohol foam. Water can be used to cool fire exposed containers.

Hazardous Combustion Products: Nitrogen oxides, silicon dioxide, carbon dioxide, and traces of incompletely burned carbon products.

Recommended Fire Fighting Procedures: Wear protective clothing and self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: Not determined.

SECTION 6: PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken in Case Material is Released or Spilled: Remove product and contain for salvage or disposal.

Precautions to Be Taken in Handling and Storing: Store below 90°F / 32°C. Keep container closed when not in use.

SECTION 7: EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation: Local exhaust and mechanical (general) recommended.

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: The use of safety glasses with side shields may be warranted.

Skin Protection: Avoid contact by using impervious protective clothing including rubber or plastic gloves, apron, boots, etc.

Other: These precautions are for room temperature handling; use at elevated temperatures, or aerosol / spray applications, may require added precautions. Good practice requires that gross amount of any chemical be removed from the skin as soon as practical.

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

Appearance and Odor:	Slight odor, paste-like, gray.		
Flash Point:	212°F	Lower Explosive Limit:	Unknown
Method Used:	Closed Cup	Upper Explosive Limit:	Unknown
Evaporation Rate:	Not Applicable	Boiling Point:	Not Applicable
pH (undiluted product):	Unknown	Melting Point:	Not Applicable
Solubility in Water:	Unknown	Specific Gravity:	1.045 (Water=1)
Vapor Density:	Not Applicable	Percent Volatile:	5%
Vapor Pressure:	Not Applicable		

SECTION 9: STABILITY AND REACTIVITY

Thermal Stability:	Stable
Hazardous Polymerization:	Will not occur
Conditions to Avoid:	Exposure to water, moisture, or air until ready to apply; product cures upon exposure. Oxidizing materials can cause a reaction.

SECTION 10: TRANSPORTATION

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

SECTION 11: MISCELLANEOUS INFORMATION

Additional Comments:	Traces of Formaldehyde may form if heated in air above 300°F. Provide ventilation to control vapor exposure within inhalation guidelines when handling at elevated temperatures. Review the OSHA formaldehyde regulations for detailed information on safe handling requirements. Observe exposure limits for methyl alcohol, formed on exposure to water or humid air. OSHA PEL and ACGIH TLV-SKIN are both 200 ppm, ACGIH STEL 250 ppm. Observe the 10 ppm TWA AIHA-WEEL for methylethylketoxime, formed on exposure to water or humid air. Male rodents exposed to methylethylketoxime vapor throughout their life-time developed liver cancer. Observe exposure limits for ethyl alcohol, formed on exposure to water or humid air. OSHA PEL and ACGIH TLV are both TWA 1000 ppm. Cured material is non-hazardous. For TSCA purposes, USEPA recognizes the chemical amorphous silica (CASNO 112945-52-5) to be equivalent to the chemical silica
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	(CASNO 7631-86-9).
Date of Previous MSDS:	July 15, 2008
Changes Since Previous MSDS:	Company name change
Telephone Number for Additional Information:	(317) 575-7190

DISCLAIMER

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