

# Firestone Specialty Products Company

## Material Safety Data Sheet

February 16, 2007

Page: 1

### SECTION 1: PRODUCT IDENTIFICATION

Product Name: Spray Adhesive/Primer 7877  
 Chemical Name / Synonym: None  
 Chemical Family: Mixture  
 24-Hour Emergency Phone: (800) 424-9300 CHEMTREC  
 Manufacturer's Name: Firestone Specialty Products Company  
 Manufacturer's Address: 310 East 96<sup>th</sup> Street, Indianapolis, IN 46240  
 NFPA Hazard Rating: Health 3, Flammability 4, Reactivity 1  
 HMIS Hazard Rating: Health 2, Flammability 4, Reactivity 1

### SECTION 2: CHEMICAL COMPOSITION

Chemical Name:	Common Name:	CAS #:	% (by wt)	Exposure Limits:
Acetone	Methyl Ketone	67-64-1	25	PEL 1000 ppm TLV 500 ppm ACGIH STEL 750 ppm
Propane	Dimethylmethane	74-98-6	20	PEL 1000 ppm TLV 1000 ppm
n-Hexane	None	110-54-3	20	PEL 500 ppm TLV 50 ppm
Dimethyl Ether	Methyl Ether	115-10-6	15	AIHA WEEL 1000 ppm
Toluene	Toluol	108-88-3	5	PEL 200 ppm OSHA CEILING 300 ppm TLV 50 ppm (Skin)
C12 – C14 Isoalkanes	None	68551-19-9	5	None Available
Cyclohexane	None	110-82-7	10	PEL 300 ppm TLV 100 ppm

### SECTION 3: HAZARD IDENTIFICATION

Primary Route of Exposure: Skin Absorption, Inhalation  
 Signs and Symptoms of Exposure: Eye contact may cause severe eye irritation, redness, tearing and blurred vision. 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. Inhalation may cause respiratory system irritation and central nervous system depression characterized by headache, dizziness, muscular weakness and fatigue. May cause unconsciousness if exposure is excessive. Inhalation of Toluene vapors above 200 ppm may result in impairment of coordination, increased reaction time and a bad taste in the mouth. N-Hexane LD<sub>50</sub> (rat) of 28.7 kg/kg, n-Hexane LC<sub>L0</sub>

# Firestone Specialty Products Company

## Material Safety Data Sheet

February 16, 2007

Page: 2

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	(mouse) of 120 gm/m <sup>3</sup> ; Acetone LC <sub>50</sub> (rat) of 16,000 ppm/4hr, Acetone LD <sub>50</sub> (rat) of 9.8 g/kg; Toluene LC <sub>50</sub> (rat) of 8,000 ppm/4hr, Toluene LD <sub>50</sub> (rat) of 5 g/kg; Dimethyl Ether LC <sub>50</sub> (rat) of 308 gm/m <sup>3</sup> ; Cyclohexane LD <sub>50</sub> (mouse) of 813 mg/kg, Cyclohexane LC <sub>Lo</sub> (mouse) of 70 gm/m <sup>3</sup> /2 hr.
Medical Conditions Aggravated by Exposure:	Exposure to this product may aggravate pre-existing skin and respiratory diseases. Exposure to Hexane should be avoided by individuals with neurological diseases.
Chronic Effects:	Overexposure to this material (or its components) may cause kidney, liver, spleen and central nervous system damage. Based upon animal studies, may cause brain cell and neuromuscular damage and hearing loss.
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, mineral oil, baby oil or makeup remover first to remove sticky resin, 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 is 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:	Foam, water spray, (fog), Carbon Dioxide, and dry chemical type extinguishing agents may all be suitable for extinguishing fires involving this product. Water may be ineffective, but should be used to keep fire-exposed containers cool. If a leak or spill has ignited, use water to disperse the vapors and to protect men attempting to stop a leak. Water spray may be used to flush spills away from exposures.
Hazardous Combustion Products:	Carbon dioxide, carbon monoxide, various hydrocarbons, carboxylic acid, 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. Minimize the breathing of gases, vapors, fumes or decomposition products. Use supplied-air breathing equipment for enclosed or confined spaces or as otherwise needed.
Unusual Fire and Explosion Hazards:	This product is volatile and gives off invisible vapors. Either the liquid or vapor may settle in low areas or travel some distance along the ground or surface to ignition sources where they may ignite or explode.

# Firestone Specialty Products Company

## Material Safety Data Sheet

February 16, 2007

Page: 3

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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:	Shut off and eliminate all ignition sources. Keep people away. Recover free product. Add sand, earth or other suitable absorbent to spill area. Minimize breathing vapors. Minimize skin contact. Ventilate confined spaces. Open all windows and doors. Keep product clear of sewers, water, or extensive land areas. Assure conformity with applicable government regulations. Continue to observe precautions for volatile, flammable vapors from absorbed material.
Precautions to Be Taken in Handling and Storing:	Do not store above 120° F. Do not store in direct sunlight. 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

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Ventilation:	Use with ventilation sufficient to prevent exceeding recommended exposure limits or build up of explosive concentrations of vapor in air.
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:	Safety glasses with side shields are recommended when pouring or applying this product.
Skin Protection:	Wear polyvinyl alcohol, nitrile rubber, or neoprene glove 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:	Clear amber liquid with mint odor		
Flash Point:	- 156° F	Lower Explosive Limit:	1.0%
Method Used:	Pensky-Martens CC	Upper Explosive Limit:	18%
Evaporation Rate:	>1 (Butyl Acetate=1)	Boiling Point:	Unknown
pH (undiluted product):	Unknown	Melting Point:	Not Applicable
Solubility in Water:	Negligible	Specific Gravity:	0.68 (Water=1)
Vapor Density:	Heavier than air	Percent Volatile:	79%(by weight) 84% (by vol.)
Vapor Pressure:	Unknown		

# Firestone Specialty Products Company

## Material Safety Data Sheet

February 16, 2007

Page: 4

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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, oxidizers, aldehydes, reducing agents.

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### SECTION 10: TRANSPORTATION

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Regulatory Agency:	DOT
Proper Shipping Name:	Aerosols
Hazard Classification:	2.1
Identification Number:	UN1950
Labels Required:	Flammable Gas
Other Requirements:	ICAO/IATA - UN1950, Aerosols, 2.1. IMDG - UN1950, Aerosols, Class 2.1, EMS F-D, S-U.

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### SECTION 11: MISCELLANEOUS INFORMATION

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Additional Comments:	None
Date of Previous MSDS:	July 31, 2006
Changes Since Previous MSDS:	Company name change.
Telephone Number for Additional Information:	(317) 575-7190

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