

Validation Date: 9/10/09

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: FlameSafe® FSP 1000/FSP 1077 Firestop Putty
Product Code: 66881, 66882, 66886, 66887
Chemical Family Name: Filled Polybutene
Product Use: Non-Hardening, Moldable Firestop
Chemical Formula: Mixture-NA
CAS # (Chemical Abstracts Service Number): Mixture-NA

MANUFACTURER'S NAME
 The RectorSeal Corporation
 2601 Spenwick Drive
 Houston, Texas 77055 USA

EMERGENCY TELEPHONE NO.
 Chemtrec 24 Hours
 (800) 424-9300

TECHNICAL SERVICE TELEPHONE NO.
 (800) 231-3345

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Percent (max)
Aluminum oxide	001344-28-1	10-20
Carbon black.	001333-86-4	< 1
Cellulose.	009004-34-6	1-5
Dipentaerythritol	000126-58-9	5-10
Formaldehyde-melamine polymer	009003-08-1	5-10
Polybutene	009003-29-6	20-30
Polyphosphoric acids, ammonium salts	068333-79-9	10-20
Silicic acid, sodium salt	001344-09-8	5-10
Titanium dioxide	13463-67-7	< 1

SECTION 3 - HAZARDS IDENTIFICATION**Emergency Overview:****Warning!**

Causes severe eye irritation.
 Causes skin irritation.
 Causes respiratory tract irritation.

HMIS Rating:

Health: 2*
 Flammability: 0
 Reactivity: 0
 Personal Protective Equipment: B (See Section 8)

Potential Health Effects:

Inhalation: Causes respiratory tract irritation.

Effects include: Sneezing, itching, burning, tightness of chest, hypersensitive individuals may experience allergic respiratory reaction and wheezing.

Eye Contact: Eye contact can cause severe irritation.

Prolonged eye contact can result in tissue damage.

Skin Contact: Skin contact causes irritation.

Prolonged skin contact can result in irritation causing redness and itching.

May cause sensitization.

Hypersensitive individuals may develop an allergic reaction resulting in dermatitis, rash or hives.

Skin Absorption: Not expected to be harmful if absorbed through the skin.

Ingestion: Oral toxicity is believed to be low.

Effects include the following: No other effects expected unless listed below.

May be irritating if ingested.

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9/10/09**SECTION 4 - FIRST AID MEASURES:****Skin Contact:** If discomfort or irritation persists, consult a physician.

Wash with soap and water.

Remove contaminated clothing and wash before reuse.

Eye Contact: Call a physician.

Flush eyes with water for at least 15 minutes while holding eyelids open.

Ingestion: If discomfort or irritation persists, consult a physician.

Never give anything by mouth to an unconscious person.

Do not induce vomiting.

Inhalation: If symptoms develop, get fresh air. If symptoms persist, consult a physician.

If breathing has stopped, give artificial respiration then oxygen if needed.

SECTION 5 - FIRE AND EXPLOSION HAZARD DATA**Flash Point:** >212°F/100°C**Flash Point Method:** Estimated**Lower Explosion Limit:** Not Available**Upper Explosion Limit:** Not Available**Auto-ignition Temperature:** Not Available**NFPA Rating:****Health:** 1**Flammability:** 0**Reactivity:** 0**Extinguishing Media:** Product will not support combustion. Use alcohol foam, Carbon dioxide, dry chemical or water to treat surrounding fire.**Special Fire Fighting Procedures:** Wear self-contained breathing apparatus and complete personal protective equipment when potential for exposure to vapors or products of combustion exist. Isolate area and keep unnecessary people away.**Unusual Fire and Explosion Hazards:** Ammonia and phosphoric acid can be produced in fire situations.**SECTION 6 - ACCIDENTAL RELEASE MEASURES:****Spills/Leaks:** Use proper personal protective equipment. Do not flush to sewer or allow to enter waterways. Keep unnecessary people away.**SECTION 7 - HANDLING AND STORAGE****Precautionary Measures:** Avoid contact with eyes, skin and clothing.

Do not take internally.

Practice good personal hygiene to avoid ingestion.

Use only with adequate ventilation.

Wash clothing before reuse.

FOR PROFESSIONAL USE ONLY. KEEP OUT OF CHILDREN'S REACH.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT**EXPOSURE GUIDELINES (US)**

Ingredient	ACGIH TLV			OSHA PEL			Other
	TWA	STEL	Ceiling	TWA	STEL	Ceiling	
Aluminum oxide	10 mg/m ³ TWA (as Al) (The value is for total dust containing no asbestos and <	-	-	total dust: 10 mg/m ³ TWA; respirable fraction: 5 mg/m ³ TWA	-	-	-
Carbon black.	3.5 mg/m ³ TWA	-	-	3.5 mg/m ³ TWA	-	-	-
Cellulose.	10 mg/m ³ TWA	-	-	total dust: 15 mg/m ³ TWA; respirable fraction: 5 mg/m ³ TWA	-	-	-
Dipentaerythritol	-	-	-	-	-	-	-
Formaldehyde-melamine polymer	-	-	-	-	-	-	-

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Polybutene	-	-	-	-	-	-	-
Polyphosphoric acids, ammonium salts	-	-	-	-	-	-	-
Silicic acid, sodium salt	-	-	-	-	-	-	-
Titanium dioxide	10 mg/m3 TWA	-	-	total dust: 10 mg/m3 TWA	-	-	-

*Contains formaldehyde below 0.1% threshold. Product is capable of releasing formaldehyde under certain conditions. Exposure during typical application is expected to be insignificant. Exposure to formaldehyde vapor is a potential concern if product is applied under confined space conditions. Consult appropriate exposure guidelines for formaldehyde. (OSHA: 0.75 ppm-TWA, 2.0 ppm - STEL, ACGIH 0.3 ppm Ceiling) Titanium dioxide and Carbon black have been associated with lung disease (lung cancer). However due to the physical nature of this product (liquid) exposures are not expected unless after product dries it is abraded and airborne dust is created.

EXPOSURE GUIDELINES (CANADA)

Employers should consult provincial regulatory limits for exposure guidelines which may vary locally.

Engineering Controls: Not generally required.

Personal Protective Equipment:

Respiratory Protection: Respiratory protection is not generally required. However, if exposure limits (Section 8) are exceeded or respiratory irritation develops due to inhalation, a NIOSH approved respirator is recommended.

A NIOSH approved respirator for Formaldehyde vapor is required whenever exposures exceed regulatory limits. For additional information, refer to US OSHA Regulations 29 CFR 1910.§ 134.

Skin Protection: Impervious (PVC, latex or nitrile) gloves should be worn anytime direct contact is possible.

Eye Protection: Safety glasses or goggles should be worn.

Work/Hygienic Practices: Use good personal hygiene practices.

Prevent direct skin contact.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Appearance/Odor:	Red putty like compound, slight rubber odor.
Odor Threshold: (ppm)	Not Determined
pH:	Not Available
Vapor Pressure: (Mm Hg)	Not Applicable
Vapor Density: (Air = 1)	Not Applicable
Solubility In Water:	Slight
Specific Gravity: (Water = 1)	~1.1
Evaporation Rate: (Butyl Acetate = 1)	Not Applicable
Boiling Point:	Not Applicable
Viscosity:	Unknown
Bulk Density: (Pounds/Cubic Foot)(Pcf)	Not Applicable
% Volatiles (gr/L): (70°F) (21°C)	Not Applicable

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability:	Stable
Conditions To Avoid:	Oxidizing materials and Strong acids.
Hazardous Polymerization:	Will not polymerize.
Hazardous Decomposition Products:	Carbon dioxide, Carbon monoxide, Formaldehyde, Acids, Oxides of nitrogen and Ammonia.

SECTION 11 - TOXICOLOGICAL INFORMATION

<u>Ingredient(No data unless listed.)</u>	<u>CAS Number</u>	<u>LD50 and LC50</u>
Cellulose.	009004-34-6	Inhalation LC50 Rat : >5800 mg/m3/4H Oral LD50 Rat : >5 gm/kg
Formaldehyde-melamine polymer	009003-08-1	Oral LD50 Rat : >10 gm/kg; Dermal LD50 Rabbit : >10 gm/kg

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Carcinogenicity:

Ingredient	IARC Group 1	IARC Group 2A	IARC Group 2B	NTP Known	NTP Suspect	OSHA
Aluminum oxide	No	No	No	No	No	No
Carbon black.	No	No	Yes	No	No	No
Cellulose.	No	No	No	No	No	No
Dipentaerythritol	No	No	No	No	No	No
Formaldehyde-melamine polymer	No	No	No	No	No	No
Polybutene	No	No	No	No	No	No
Polyphosphoric acids, ammonium salts	No	No	No	No	No	No
Silicic acid, sodium salt	No	No	No	No	No	No
Titanium dioxide	No	No	Yes	No	No	No

*Contains formaldehyde below 0.1% threshold. Product is capable of releasing formaldehyde under certain conditions. Exposures during typical applications are expected to be insignificant. Exposure to formaldehyde vapor is a potential concern if product is applied under confined space conditions. NTP: Suspect Carcinogen. IARC: Group 1. OSHA: Potential.

Titanium dioxide and Carbon black have been associated with lung disease (lung cancer). However due to the physical nature of this product (liquid) exposures are not expected unless after product dries it is abraded and airborne dust is created.

Carbon Black has been classified as possibly carcinogenic to humans. (IARC Group 2B). Review of studies concluded that findings are questionable due to study design and methodology. Furthermore, review of these studies indicates that work environment concentrations of carbon black were considerably greater than current occupational exposure standards. Carbon Black contains >0.1% of absorbed PAHs(polynuclear aromatic hydrocarbons). In the non-absorbed form PAHs have been found to be carcinogenic in animal studies. No effects have been observed in humans.

Mutagenicity: No information available.
Teratogenicity: No information available.
Reproductive Toxicity: No information available.

SECTION 12 - ECOLOGICAL INFORMATION

Environmental Fate: No data available for product.
Ecotoxicity: No data available for product.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal Procedures: Consult all regulations (federal, state, provincial, local) or a qualified waste disposal firm when characterizing waste for disposal. According to EPA (40 CFR § 261), waste of this product is not defined as hazardous. Dispose of waste in accordance with all applicable regulations.

SECTION 14 - TRANSPORTATION INFORMATION

Proper Shipping Name: Not Applicable
UN/NA Number: Not Applicable
Domestic Hazard Class: Nonhazardous
Surface Freight Classification: Not Applicable
Label/Placard Required: Not Applicable

SECTION 15 - REGULATORY INFORMATION

REGULATORY CHEMICAL LISTS:

CERCLA (Comprehensive Response Compensation and Liability Act):
(None present unless listed below)

<u>Chemical Name</u>	<u>CAS #</u>	<u>Wt %</u>	<u>CERCLA RQ</u>
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SARA Title III (Superfund Amendments and Reauthorization Act)

SARA Section 312/Tier I & II Hazard Categories:

Health Immediate (acute)	Yes
Health Delayed (chronic)	Yes
Flammable	No

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Reactive	No
Pressure	No

302 Reportable Ingredients (Identification Threshold 1%):

<u>Chemical Name</u>	<u>CAS #</u>	<u>Wt %</u>	<u>SARA 302 TPQ</u>
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313 Reportable Ingredients (Chemicals present below reporting threshold are exempt):

<u>Chemical Name</u>	<u>CAS #</u>	<u>Wt %</u>
Aluminum oxide	001344-28-1	13.44
Formaldehyde	000050-00-0	.0602

National Volatile Organic Compound Emission Standards For Architectural Coatings:

Volatile Organic Content: (gr/L)	Not Applicable
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WHMIS Classification(s): D2 B

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR). This MSDS contains all the information required by the CPR.

State Regulatory Information:

California Proposition 65: WARNING! This product contains substances known to the state of California to cause cancer, birth defects or other reproductive harm.

Massachusetts Hazardous Substance List(Identification threshold 0.001%(1ppm)):

<u>Chemical Name</u>	<u>CAS #</u>	<u>Wt %</u>
Formaldehyde	000050-00-0	.0602

New Jersey Hazardous Substance List(Identification threshold (0.1%)):

<u>Chemical Name</u>	<u>CAS #</u>	<u>Wt %</u>
Aluminum oxide	001344-28-1	13.

Pennsylvania Hazardous Substance List(Identification threshold 0.01%):

<u>Chemical Name</u>	<u>CAS #</u>	<u>Wt %</u>
Formaldehyde	000050-00-0	.060

CHEMICAL INVENTORY STATUS:**All chemicals in this product are listed or exempt from listing in the following countries:**

US	CANADA		EUROPE	AUSTRALIA	JAPAN	KOREA	PHILIPPINES
TSCA	DSL	NDSL	EINECS/ELINCS	AICS	ENCS	ECL	PICCS
Yes	Yes	No	Not Determined	Not Determined	Not Determined	Not Determined	Yes

SECTION 16 - OTHER INFORMATION**Non-Hazardous Ingredient Disclosure:**

<u>Chemical Name</u>	<u>CAS Number</u>
Water	007732-18-5

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). The information herein is given in good faith, but no warranty, expressed or implied is made. Consult RectorSeal for further information: (713) 263-8001