MATERIAL SAFETY DATA SHEET

Product Name: FlameSafe® 900+ Series Firestop Compound MSDS ID Number: Z-01589

MSDS Date: 11/05/2002

#### SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: MSDS Number: Cancelled MSDS Number:	FlameSafe® FS 900+ Series Firestop Compound Z-01589 Z-01572
MSDS Date:	08/05/2003
Chemical Family Name:	Polyvinyl Acetate & Acrylic Latex Based Emulsion
Product Use:	Elastomeric Acrylic Firestop
Chemical Formula:	Mixture-NA
CAS # (Chemical Abstracts Service	Mixture-NA
Number):	

#### Manufactured by:

W.R. Grace & CoConn.	Grace Canada, Inc.
62 Whittemore Avenue	294 Clements Road West
Cambridge, MA 02140	Ajax, Ontario L1S 3C6

## In Case of Emergency Call:

In USA: (617) 876-1400 In Canada: (905) 683-8561

## **SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS**

Ingredient	CAS#	Percent (max)
2-Propenoic acid, polymer.	052640-81-0	25-50
Aluminum oxide	001344-28-1	10-25
Ethylene Glycol	000107-21-1	< 1
Methenamine	000100-97-0	< 1
Phenol, isopropylated, phosphate (3:1)	068937-41-7	1-10
Phenol-formaldehyde polymer	009003-35-4	1-10
Triphenyl phosphate	000115-86-6	1-10
Wollastonite (Ca(SiO3))	013983-17-0	1-10
Zinc borate	001332-07-6	1-10

## **SECTION 3 - HAZARDS IDENTIFICATION**

### **Emergency Overview:**

## Caution!

Causes mild to moderate eye irritation. Causes respiratory tract irritation. May be harmful if ingested. Harmful if absorbed through skin. May cause mutagenic effects. May cause reproductive effects. May cause teratogenic effects.

#### HMIS Rating:

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

#### **Potential Health Effects:**

Inhalation: Causes respiratory tract irritation.
 Prolonged inhalation may cause sensitization.
 Effects include: Nausea, sneezing, coughing, tightness of chest and wheezing. Hypersensitive individuals may experience allergic respiratory reaction.
 Eye Contact: Eye contact causes mild to moderate irritation.
 Skin Contact: Acute skin contact is not expected to cause irritation.

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Hypersensitive individuals may develop an allergic reaction resulting in dermatitis, rash or hives. **Skin Absorption:** Harmful if absorbed through the skin.

## Ingestion: Harmful if ingested.

Reproductive and developmental effects have been reported for certain ingredients. Long-term repeated ingestion of small amounts of product may cause a decrease in red blood cells or liver and kidney damage. Ethylene glycol has been shown to produce teratogenic and developmental toxic effects in laboratory animals. Phenol-formaldehyde polymer has tested positive as a mutagen.

## **SECTION 4 - FIRST AID MEASURES:**

Skin Contact: Wash with soap and water.
If discomfort or irritation persists, consult a physician.
Remove contaminated clothing and wash before reuse.
Eye Contact: Flush eyes with water for at least 15 minutes while holding eyelids open.
Get immediate medical attention.
Ingestion: Do not induce vomiting.
Never give anything by mouth to an unconscious person.
If discomfort or irritation persists, consult a physician.
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:	>200°F/93°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:

During fire, oxides of nitrogen may be evolved.

### **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.

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Product Name: FlameSafe® 900+ Series Firestop Compound MSDS ID Number: Z-01589

MSDS Date: 11/05/2002

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

Ingredient	ACGIH TLV			OSHA PEL			Other
	TWA	STEL	Ceiling	TWA	STEL	Ceiling	
2-Propenoic acid, polymer	-	-	-	-	-	-	-
Aluminum oxide	10 mg/m3 TWA (as Al) (The value is for total dust containing no asbestos and <	-	-	total dust: 10 mg/m3 TWA; respirable fraction: 5 mg/m3 TWA	-	-	-
Ammonia	25 ppm TWA	35 ppm STEL	-	-	35 ppm STEL; 27 mg/m3 STEL	-	-
Ethylene Glycol	-	-	C 100 mg/m3 (aerosol)	-	-	-	-
Phenol, isopropylated, phosphate (3:1)	-	-	-	-	-	-	-
Phenol-formaldehyde polymer	-	-	-	-	-	-	-
Triphenyl phosphate	3 mg/m3 TWA	-	-	3 mg/m3 TWA	-	-	-
Wollastonite (Ca(SiO3))	-	-	-	-	-	-	-
Zinc borate	-	-	-	-	-	-	-

\*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)

# EXPOSURE GUIDELINES (CANADA)

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

### Engineering Controls:

Not generally required.

## Personal Protective Equipment:

**Respiratory Protection:** Respiratory protection is not normally required.

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.

Use good personal hygiene practices. Wash thoroughly after handling. Prevent direct skin contact.

# **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Physical State:	Solid
Appearance/Odor:	Red mastic. Mild latex odor.
Odor Threshold: (ppm)	
pH:	Not Available
Vapor Pressure: (Mm Hg)	Unknown
Vapor Density: (Air = 1)	Greater than 1
Solubility In Water:	Appreciable
Specific Gravity: (Water = 1)	Not Available
Evaporation Rate: (Butyl Acetate = 1)	1
Boiling Point:	>212°F/100°C
Viscosity:	Unknown

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Product Name: FlameSafe® 900+ Series Firestop Compound MSDS ID Number: Z-01589

Bulk Density: (Pounds/Cubic Foot)(Pcf)Not Applicable% Volatiles (gr/L): (70°F)(21°C)5.4 g/l

# **SECTION 10 - STABILITY AND REACTIVITY**

Chemical Stability:StableConditions To Avoid:None kHazardous Polymerization:Will notHazardous DecompositionCarbonProducts:hydroca

Stable None known for this product. Will not polymerize. Carbon dioxide, Carbon monoxide and Low molecular weight hydrocarbons.

# **SECTION 11 - TOXICOLOGICAL INFORMATION**

Ingredient(No data unless listed.)	CAS Number	LD50 and
Triphenyl phosphate	000115-86-6	Oral LD50

LD50 and LC50 Oral LD50 Rat : 3500 mg/kg; Oral LD50 Mouse : 1320 mg/kg;

# Carcinogenicity:

Ingredient	IARC	IARC	IARC	NTP	NTP	OSHA
	Group 1	Group 2A	Group 2B	Known	Suspect	
2-Propenoic acid, polymer	No	No	No	No	No	No
Aluminum oxide	No	No	No	No	No	No
Phenol, isopropylated, phosphate (3:1)	No	No	No	No	No	No
Phenol-formaldehyde polymer	No	No	No	No	No	No
Triphenyl phosphate	No	No	No	No	No	No
Wollastonite (Ca(SiO3))	No	No	No	No	No	No
Zinc borate	No	No	No	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 2A. OSHA: Potential.

Mutagenicity:Phenol-formaldehyde polymer in this product has tested positive as<br/>a mutagen.Teratogenicity:Ethylene glycol contained in this product has been shown to<br/>produce teratogenic effects in laboratory animals.Reproductive Toxicity:Reproductive effects have been reported for Phenol-formaldehyde<br/>polymer.

## **SECTION 12 - ECOLOGICAL INFORMATION**

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

# **SECTION 13 - DISPOSAL CONSIDERATIONS**

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

# **SECTION 14 - TRANSPORTATION INFORMATION**

Proper Shipping Name: UN/NA Number: Domestic Hazard Class: Surface Freight Classification: Label/Placard Required: Not Applicable Not Applicable Nonhazardous Compound, Fireproofing or Retardants, Flame. Not Applicable

# SECTION 15 - REGULATORY INFORMATION

**REGULATORY CHEMICAL LISTS:** 

CERCLA (Comprehensive Response Compensation and Liability Act):

MSDS Date: 11/05/2002

MATE	RIAL SAFETY DAT	A SHEET				
Product Name: FlameSafe® 900+ Series Firestop Compound						
MSDS ID Number: Z-01589 MSDS Date: 11/05/2002						
(None present unless listed below)						
<b>.</b>	<i>"</i>					
Chemical Name	<u>CAS #</u>	<u>Wt %</u>	CERCLA RQ			
Zinc borate	001332-07-6	4	final RQ = 1000 pounds (454 kg)			
			(454 Kg)			
SARA Title III (Superfund Amendments		<u>ion Act)</u>				
SARA Section 312/Tier I & II Hazard Ca	•					
Health Immediate (acute)	Yes					
Health Delayed (chronic) Flammable	Yes No					
Reactive	No					
Pressure	No					
		<b>\.</b>				
302 Reportable Ingredients (Identificat Chemical Name	<u>CAS #</u>	<u>):</u> Wt %	<u>SARA 302</u>			
	<u>CA3 #</u>	<u>VVL /0</u>	TPQ			
313 Reportable Ingredients (Chemicals	present below re	porting thresh	·			
Chemical Name		CAS #	Wt %			
Acetaldehyde		000075-07-0	.0023075			
Acrylamide		000079-06-1	.0013845			
Acrylonitrile		000107-13-1	.0004615			
Aluminum oxide		001344-28-1	15.41			
Ammonia		007664-41-7	.129			
Chlorothalonil		001897-45-6	.0404			
Ethyl acrylate		000140-88-5	.003692			
Ethylene Glycol		000107-21-1	.15			
Formaldehyde		000050-00-0	.02789005			
Glycol ethers		RR-00067-9	.002			
Methyl alcohol Zinc Compounds		000067-56-1 RR-00578-7	.002 4.0			
•						
National Volatile Organic Compound E		s For Architect	ural Coatings:			
Volatile Organic Content: (gr/L	) 5.4 g/l					
WHMIS Classification(s):	D2 B					
This product has been classified in accord	dance with the haza	ard criteria of the	e Controlled Products			
Regulations (CPR). This MSDS contains						
State Regulatory Information:						
	! This product cont	ains substance	s known to the state of			
			ner reproductive harm.			
Massachusetts Hazardous Substance	List(Identification	threshold 0.00	1%(1ppm)):			
Chemical Name		CAS #	Wt %			
Acetaldehyde		000075-07-0	.0023075			
Acrylamide		000079-06-1	.0013845			
Acrylonitrile		000107-13-1	.0004615			
Ammonia		007664-41-7	.129			
Chlorothalonil		001897-45-6	.0404			
Ethyl acrylate		000140-88-5	.003692			
Formaldehyde		000050-00-0	.02789005			
New Jersey Hazardous Substance List(Identification threshold (0.1%)):						
<u>Chemical Name</u>		<u>CAS #</u>	<u>Wt %</u>			
Aluminum oxide		001344-28-1	15.41			
Ammonia		007664-41-7	.129			

#### W. R. GRACE MATERIAL SAFETY DATA SHEET

Product Name: FlameSafe® 900+ Series Firestop Compound MSDS ID Number: Z-01589

MSDS Date: 11/05/2002

Ethylene Glycol

000107-21-1 .15

Pennsylvania Hazardous Substance List(Identification threshold 0.01%):

Chemical Name	<u>CAS #</u>	<u>Wt %</u>
Formaldehyde	000050-00-0	.02789005

## 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	Not	Yes	Not	Not	Not	Not	Not
	Determined		Determined	Determined	Determined	Determined	Determined

## **SECTION 16 - OTHER INFORMATION**

### Non-Hazardous Ingredient Disclosure:

Chemical Name Water CAS Number 007732-18-5

Prepared by: Approved by: Approved Date: EH&S Department EH&S Department 08/05/2003

#### Disclaimer:

"The data included herein are presented in accordance with various environment, health and safety regulations. It is the responsibility of a recipient of the data to remain currently informed on chemical hazard information, to design and update its own program and to comply with all national, federal, state and local laws and regulations applicable to safety, occupational health, right-to-know and environmental protection."