

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

Product Name: Flamesafe® ARC Proofing Boot  
MSDS ID Number: Z-01562

MSDS Date: 09/25/2002

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

**Product Name:** Flamesafe® ARC Proofing Boot  
**MSDS Number:** Z-01562  
**Cancelled MSDS Number:** Z-01560  
**MSDS Date:** 09/25/2002  
**Chemical Family Name:** Article who's major components are PVC and Benzenedicarboxylic alkyl esters.  
**Product Use:** Fire and Fault Protection for Cable Connectors  
**Chemical Formula:** Mixture-NA  
**CAS # (Chemical Abstracts Service Number):** Mixture-NA

**Manufactured by:**

W.R.Grace & Co.-Conn.  
62 Whittemore Avenue  
Cambridge, MA 02140

Grace Canada, Inc.  
294 Clements Road West  
Ajax, Ontario L1S 3C6

**In Case of Emergency Call:**

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

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

**Hazardous Ingredients:** None

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**SECTION 3 - HAZARDS IDENTIFICATION**

**Emergency Overview:**

NOTE: This product is classified as an article based on OSHA/WHMIS definition with no potential expose to ingredients during typical use due to its physical nature.

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**HMIS Rating:**

Health:	0
Flammability:	0
Reactivity:	0
Personal Protective Equipment:	A

**Potential Health Effects:**

**Inhalation:**

Inhalation is not expected due to physical nature of this product.

**Eye Contact:**

Eye contact is not expected due to physical nature of this product.

**Skin Contact:**

Acute skin contact is not expected due to physical nature of this product.

**Skin Absorption:**

Not applicable.

**Ingestion:**

Ingestion is not expected due to physical nature of this product.

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**SECTION 4 - FIRST AID MEASURES:**

**Skin Contact:**

Wash with soap and water.

If discomfort or irritation development, consult a physician.

**Eye Contact:**

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

If discomfort or irritation development, consult a physician.

**Ingestion:**

If discomfort or irritation development, consult a physician.

Never give anything by mouth to an unconscious person.

**Inhalation:**

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

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

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**SECTION 5 - FIRE AND EXPLOSION HAZARD DATA**

<b>Flash Point:</b>	Not Applicable
<b>Flash Point Method:</b>	Not Applicable
<b>Lower Explosion Limit:</b>	Not Available
<b>Upper Explosion Limit:</b>	Not Available
<b>Auto-Ignition Temperature:</b>	Not Available

**NFPA Rating:**

<b>Health:</b>	1
<b>Flammability:</b>	0
<b>Reactivity:</b>	0

**Extinguishing Media:** Product will not support combustion under normal conditions. In intense fires, smoke containing hydrochloric Acid (HCL) may be released. 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.

**Unusual Fire and Explosion Hazards:**

Consult Hazardous decomposition and conditions to avoid information contained in MSDS section 10.

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**SECTION 6 - ACCIDENTAL RELEASE MEASURES:**

**Spills/Leaks:**

Due to the physical nature of this product spills/leaks are not possible.

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**SECTION 7 - HANDLING AND STORAGE**

**Precautionary Measures:**

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

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### SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT

#### EXPOSURE GUIDELINES (US)

Ingredient	ACGIH TLV			OSHA PEL			Other
	TWA	STEL	Ceiling	TWA	STEL	Ceiling	

Not applicable due to physical nature of this product.

#### 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.

**Skin Protection:** Normal work gloves are recommended.

**Eye Protection:**

**Work/Hygienic Practices:** Use good personal hygiene practices.

None beyond those noted above.

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### SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b>	Solid
<b>Appearance/Odor:</b>	Black or orange pliable material
<b>Odor Threshold:</b> (ppm)	Not Determined
<b>pH:</b>	Not Applicable
<b>Vapor Pressure:</b> (Mm Hg)	Unknown
<b>Vapor Density:</b> (Air = 1)	Unknown
<b>Solubility In Water:</b>	Unknown
<b>Specific Gravity:</b> (Water = 1)	Not Available
<b>Evaporation Rate:</b> (Butyl Acetate = 1)	Unknown
<b>Boiling Point:</b>	Not Applicable
<b>Viscosity:</b>	Unknown
<b>Bulk Density:</b> (Pounds/Cubic Foot)(Pcf)	Not Applicable
<b>% Volatiles (gr/L):</b> (70°F) (21°C)	Not Available

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**SECTION 10 - STABILITY AND REACTIVITY**

<b>Chemical Stability:</b>	Stable
<b>Conditions To Avoid:</b>	None known for this product.
<b>Hazardous Polymerization:</b>	Will not polymerize.
<b>Hazardous Decomposition Products:</b>	Carbon dioxide, carbon monoxide, acrolein, formaldehyde, aldehydes, ketones, hydrochloric Acid, methane, ethane, hydrocarbons, and stibine gas.

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**SECTION 11 - TOXICOLOGICAL INFORMATION**

<b><u>Ingredient(No data unless listed.)</u></b>	<b><u>CAS Number</u></b>	<b><u>LD50 and LC50</u></b>
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**Carcinogenicity:**

Ingredients are not defined as carcinogen by IARC, NTP, or OSHA.

<b>Mutagenicity:</b>	Not applicable.
<b>Teratogenicity:</b>	Not applicable.
<b>Reproductive Toxicity:</b>	Not applicable.

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**SECTION 12 - ECOLOGICAL INFORMATION**

<b>Environmental Fate:</b>	No data available for product.
<b>Ecotoxicity:</b>	No data available for product.

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**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.

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**SECTION 14 - TRANSPORTATION INFORMATION**

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

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**SECTION 15 - REGULATORY INFORMATION**

**REGULATORY CHEMICAL LISTS:**

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

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

**SARA Section 312/Tier I & II Hazard Categories:**

Health Immediate (acute)	No
Health Delayed (chronic)	No
Flammable	No
Reactive	No
Pressure	No

**302 Reportable Ingredients (Identification Threshold 1%.):**

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

<b><u>Chemical Name</u></b>	<b><u>CAS #</u></b>	<b><u>Wt %</u></b>
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**National Volatile Organic Compound Emission Standards For Architectural Coatings:**

**Volatile Organic Content:** (gr/L) Not Applicable

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**WHMIS Classification(s):** Not WHMIS regulated.

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:** This product does not contain substances known to the state of California to cause cancer, birth defects or other reproductive harm.

**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	Yes	Yes	Yes	Yes	Yes	Yes

This product is exempt from listings based on chemical inventory article exemptions.

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**SECTION 16 - OTHER INFORMATION**

**Non-Hazardous Ingredient Disclosure:**

**Chemical Name**

**CAS Number**

**Prepared by:** EH&S Department  
**Approved by:** EH&S Department  
**Approved Date:** 09/25/2002

**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."