



**FIRE PROTECTION SYSTEMS INC.**

**CHEMTREC Transportation**  
**Emergency Phone: 800-424-9300**

**Pittsburgh Poison Control Center**  
**Health Emergency No.: 412-681-6669**

NOTE: The CHEMTREC Transportation  
Emergency Phone is to be used only in the event of  
chemical emergencies involving a spill, leak, fire,  
exposure or accident involving chemicals

# Material Safety Data Sheet

## Section 1 - Chemical Product / Company Information

<b>Product Name:</b>	A/D FIREBARRIER PUTTY II	<b>Revision Date:</b>	08/21/2007
		<b>Supercedes :</b>	N/A
<b>Product Use/Class:</b>	Sealant	<b>Preparer:</b>	Technical Service Department
<b>Manufacturer:</b>	A/D Fire Protection Systems Inc. 420 Tapscott Rd. Scarborough, Ontario M1B 1Y4	<b>Tel. No.</b>	(800) 263-4087, (416) 292-2361
		<b>Fax No.</b>	(416) 298-5887

## Section 2 - Hazards Identification

**Emergency Overview:** Gray Paste. No serious effects anticipated under normal conditions of use. Generally not required under normal conditions of use.

### Acute Potential Health Effects/Routes of Entry

**Effects Of Overexposure - Eye Contact:** Not applicable under normal conditions of use. Direct contact may cause temporary redness and discomfort.

**Effects Of Overexposure - Skin Contact:** No effects anticipated.

**Effects Of Overexposure - Inhalation:** No serious effects anticipated under normal conditions of use.

**Effects Of Overexposure - Ingestion:** No known adverse effects.

**Effects Of Overexposure - Chronic Hazards.** Inhalation of crystalline silica (quartz) can cause cancer based on animal data, and IARC concludes sufficient evidence in humans (Group 1). Prolonged and repeated overexposure to free crystalline silica dust above the TLV level may cause scarring of the lungs with cough and shortness of breath. A delayed lung injury, silicosis may result from breathing free silica. Fillers are encapsulated and not expected to be released from product under normal conditions of use.

**Medical Conditions Prone to Aggravation by Exposure:** Pre-existing eye, skin and respiratory disorders may be aggravated by exposure.

### Section 3 –Composition / Information on Ingredients

Chemical Name	CAS Number	Weight % Range
Calcium carbonate (Limestone)	1317-65-3	30.0 – 60.0
Polybutene	9003-29-6	15.0 – 40.0
Clay	1332-58-7	10.0 – 30.0
Inert filler	NJ TSRN# 51721300-5013P	7.0 – 13.0
Magnesium aluminum silicate	12174-11-7	5.0 -10.0
Water	7732-18-5	3.0 – 7.0
Amine phosphate	NJ TSRN# 51721300-5352P	3.0 – 7.0
1, 3-Propanediol, 2,2,bis(hydroxymethyl)-	115-77-5	1.0 – 5.0
Zinc Borate	1332-07-6	1.0 – 5.0
Melamine	108-78-1	1.0 – 5.0
Crystalline Silica (Quartz)/Silica Sand	14808-60-7	- < 1.0

### Section 4 - First Aid Measures

Get immediate medical attention for any significant overexposure.

**First Aid - Eye Contact:** Generally not required under normal condition of use

**First Aid - Skin Contact:** In case of contact, wash skin immediately with hand cleaner followed by soap and water. If irritation, rash or other disorders develop, get medical attention immediately.

**First Aid - Inhalation:** Generally not required under normal condition of use.

**First Aid - Ingestion:** If swallowed do not induce vomiting. Seek medical attention.

### Section 5 - Fire Fighting Measures

**Flash Point, F:** N.D.  
(No Flashpoint Method Specified)

**Lower Explosive Limit, %:** N.D.  
**Upper Explosive Limit, %:** N.D.

**Lower explosion Limit:** Not Available

**Upper Explosion Limit:** Not Available

**Auto Ignition temperature:** Not Available

**Hazardous combustion products:** Smoke, fumes. Carbon monoxide and carbon dioxide can form.

**Extinguishing Media:** If water fog is ineffective, use carbon dioxide, dry chemical or foam.

**Unusual Fire And Explosion Hazards:** This product not expected to ignite under normal conditions of use.

**Special Firefighting Procedures:** Evacuate hazard area of unprotected personnel. Use accepted fire fighting techniques. Wear full firefighting protective clothing, including self-contained breathing apparatus (SCBA)

### Section 6 - Accidental Release Measures

**Steps To Be Taken If Material Is Released Or Spilled:** Follow exposure controls/personal protection guidelines in Section 8. Avoid contact with material. Contain and scrape up material and transfer to appropriate container for disposal. Keep out of water courses. Dispose of in accordance with local, state and federal regulations.

## Section 7 - Handling And Storage

**Handling:** Handle in compliance with common hygienic practices. Clean hands thoroughly after handling.

**Storage:** Keep container closed when not in use in a dry, well ventilated warehouse. Keep away from heat and all ignition sources. Do not store with oxidizing agents

## Section 8 - Exposure Controls / Personal Protection

**Engineering Controls:** Not required under normal conditions of use. Use only in well ventilated areas. Provide maximum ventilation in enclosed areas.

**Respiratory Protection:** Not required under normal conditions of use.

**Skin Protection:** Recommend impervious gloves and clothing to avoid skin contact. If material penetrates to skin, change gloves and clothing. The use of protective creams may be beneficial to certain individuals. Protective creams should be applied before exposure.

**Eye Protection:** Generally not required under normal conditions of use. Recommend safety glasses with side shields or chemical goggles to avoid eye contact.

**Other protective equipment:** Eye wash and safety showers should be readily available. Use professional judgment.

**Hygienic Practices:** Wash with soap and water before eating, drinking, smoking, applying cosmetics, or using toilet facilities. Use of a hand cleaner is recommended. Launder contaminated clothing before reuse.

### Exposure Limits:

Chemical Name	CAS Number	Regulation	Limit	Form
Calcium Carbonate (Limestone)	1317-65-3	OSHA PEL OSHA PEL ACGIH TWA ACGIH TWA OSHA TWA OSHA TWA	5 mg/m3 15 mg/m3 3 mg/m3 10 mg/m3 15 mg/m3 5 mg/m3	Respirable fraction Total Dust Respirable fraction Inhalable Particles Total Dust Respirable fraction
Clay	1332-58-7	ACGIH TWA OSHA PEL OSHA PEL OSHA TWA OSHA TWA	2 mg/m3 15 mg/m3 5 mg/m3 15 mg/m3 5 mg/m3	Respirable fraction Total Dust Respirable fraction Total Dust Respirable fraction
Inert Filler	NJ TSRN# 51721300-5013P	ACGIH TWA OSHA PEL OSHA PEL OSHA TWA OSHA TWA	10 mg/m3 5 mg/m3 15 mg/m3 15 mg/m3 5 mg/m3	Respirable fraction Total Dust Total dust Respirable fraction
1,3-Propanediol, 2,2,bis(hydroxymethyl)-	115-77-5	ACGIH TWA OSHA PEL OSHS PEL	10 mg/m3 5 mg/m3 15 mg/m3	Respirable fraction Total Dust
Crystalline Silica (Quartz)/Silica Sand	14808-60-7	ACGIH TWA Ontario OSHA TWA OSHA TWA OSHA PEL OSHA PEL	0.05 mg/m3 0.1 mg/m3 0.1 mg/m3 0.3 mg/m3 15 mg/m3 5 mg/m3	Respirable fraction Respirable fraction Respirable Total Dust Total Dust Respirable fraction

## Section 9 - Physical And Chemical Properties

<b>Boiling Point/Range:</b>	250°C, 482°F	<b>Vapor Density:</b>	Heavier Than Air
<b>Odor:</b>	Negligible	<b>Evaporation Rate:</b>	Not Available
<b>Appearance:</b>	Paste	<b>Melting point/range</b>	Not Available
<b>Color</b>	Gray	<b>Specific Gravity:</b>	1.44
<b>Solubility in H2O:</b>	Negligible	<b>PH:</b>	Not Available
<b>Freeze Point:</b>	Not Available	<b>% Volatile Weight</b>	4%
<b>Vapor Pressure:</b>	Not Available		
<b>Physical State:</b>	Liquid (Paste)		

## Section 10 - Stability And Reactivity

**Incompatibility:** Avoid contact with Oxidizing agents.

**Stability:** Material is stable under normal storage, handling, and use.

**Hazardous polymerization:** Will not occur under normal conditions.

## Section 11 - Toxicological Information

1, 3-Propanediol, 2, 2,bis (hydroxymethyl)-, CAS-No. : 115-77-5  
Acute oral toxicity (LD-50 oral) 25,500 mg/kg (Mouse)

## Section 12 - Ecological Information

No data available

## Section 13 - Disposal Information

RCRA: Class : D001: Reportable Quantity= 100 lbs. (Characteristic of ignitability)  
This classification applies only to the material as it was originally produced.

**Disposal Information:** Waste not regulated under RCRA. Incinerate at EPA approved facility or dispose of waste according to all State, Local, and Federal Environmental regulations. Responsibility for proper waste disposal is with the owner of the waste.

## Section 14 - Transportation Information

<b>DOT Proper Shipping Name:</b>	TDG/DOT Not Regulated	<b>Packing Group:</b>	N/A
<b>DOT Technical Name:</b>	N/A	<b>Hazard Subclass:</b>	N/A
<b>DOT Hazard Class:</b>	N/A	<b>Resp. Guide Page:</b>	N/A
<b>DOT UN/NA Number:</b>	N/A		

## Section 15 - Regulatory Information

North American Inventories:

All components are listed or exempt from the TSCA inventory.

This product or its components are listed on, or exempt from the Canadian Domestic Substances List.

**CANADIAN WHMIS** : WHMIS Classification: D2A

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

**U.S. Federal Regulations:**

SARA 313 Components : Zinc Borate 1332-07-6

SARA 313/312 Hazards : Acute Health Hazard  
: Chronic Health hazard  
: Fire Hazard

OSHA Hazardous Components:

Calcium carbonate (Limestone) 1317-65-3  
Clay 1332-58-7  
Inert Filler NJ TSRN# 51721300-5013P  
Magnesium aluminum silicate 12174-11-7  
Zinc Borate 1332-07-6  
1, 3-Propanediol, 2, 2, bis (hydroxymethyl)- 115-77-5  
Crystalline Silica (Quartz)/ Silica Sand 14808-60-7

OSHA Status: Considered hazardous based on the following criteria : Irritant  
: Carcinogen

OSHA Flammability : 1C

Regulatory VOC (less water and exempt solvent) : 0 g/l

VOC Method 310 : 0 %

Chemical is listed as an IARC, NTP, OSHA, or ACGIH Carcinogen:  
Crystalline Silica (Quartz)/Silica sand 14808-60-7

**U.S. State Regulations**

**MASS RTK Components:** Calcium carbonate (Limestone) 1317-65-3  
Clay 1332-58-7  
Inert Filler NJ TSRN# 51721300-5013P  
Zinc Borate 1332-07-6  
1, 3-Propanediol, 2, 2, bis (hydroxymethyl)- 115-77-5  
Melamine 108-78-1

**Penn RTK Components:** Water 7732-18-5  
Calcium carbonate (Limestone) 1317-65-3  
Polybutene 9003-29-6  
Clay 1332-58-7  
Inert Filler NJ TSRN# 51721300-5013P  
Magnesium aluminum silicate 12174-11-7  
Amine Phosphate NJ TSRN#51721300-5352P  
Zinc Borate 1332-07-6  
1, 3-Propanediol, 2,2, bis (hydroxymethyl)- 115-77-5  
Melamine 108-78-1

**NJ RTK Components:** Calcium carbonate (Limestone) 1317-65-3  
Polybutene 9003-29-6  
Clay 1332-58-7  
Inert Filler NJ TSRN# 51721300-5013P  
Magnesium aluminum silicate 12174-11-7  
Crystalline Silica (Quartz)/Silica sand 14808-60-7

**Chemicals known to the State of California to cause cancer birth defects and/or other reproductive harm:**

Magnesium aluminum silicate	12174-11-7
Crystalline Silica (Quartz)/Silica sand	14808-60-7
Formaldehyde	50-00-0

**Section 16 - Other Information**

**HMIS Ratings: 0=Minimum, 1=Slight, 2=Moderate, 3=Serious, 4=Severe**

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

**Further Information**

For industrial use only. Keep out of reach of children. The hazard information herein is solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.

The information contained herein is, to the best of our knowledge and belief accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations.

**Legend**

<b>ACGIH</b> -American Conference of Governmental hygienists	<b>PEL</b> -Permissible Exposure Limit
<b>CERCLA</b> -Comprehensive Environmental Response, Compensation, and liability Act	<b>RCRA</b> -Resource Conservation and Recovery Act
<b>DOT</b> -Department of Transportation	<b>RTK</b> -Right To Know
<b>DSL</b> -Domestic Substance List	<b>SARA</b> -Superfund Amendments and Reauthorization Act
<b>EPA</b> -Environmental protection Agency	<b>STEL</b> -Short term Exposure Limit
<b>HMIS</b> -Hazardous Materials Information System	<b>TLV</b> -Threshold Limit value
<b>IARC</b> -International Agency for Research on Cancer	<b>TSCA</b> -Toxic Substances Control Act
<b>MSHA</b> -Mine Safety Health Administration	<b>TWA</b> -Time Weighted Average
<b>NDSL</b> -Non-Domestic Substance List	<b>V</b> -Volume
<b>NIOSH</b> -National Institute for Occupational safety and Health	<b>VOC</b> -Volatile Organic Compound
<b>NTP</b> -National Toxicology Program	<b>WHMIS</b> -Workplace Hazardous Materials Information system
<b>OSHA</b> -Occupational safety and Health Administration	

**Legend:** N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined