



# Material Safety Data Sheet

**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

## Section 1 - Chemical Product / Company Information

**Product Name:** A/D FIREBARRIER Intumescent Caulk  
**Revision Date:** 02/19/2010  
**Identification Number:** 01AD0500007  
**Supercedes :** 10/14/2008  
**Product Use/Class:** FOR INDUSTRIAL USE ONLY  
**Preparer:** Technical Service Department  
**Manufacturer:** A/D Fire Protection Systems Inc.  
420 Tapscott Rd.  
Scarborough, Ontario  
M1B 1Y4  
**Tel. No.** (800) 263-4087, (416) 292-2361  
**Fax No.** (416) 298-5887

## Section 2 - Composition / Information On Ingredients

Chemical Name	CAS Number	Weight % Less Than	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA-CEIL
Refractory Ceramic Fibers	142844-00-6	10.0	N/E	N/E	N/E	N/E
Zinc Borate	01332-07-6	10.0	10 MG/M3	N/E	15 MG/M3	N/E
MICA	12001-26-2	5.0	N/E	N/E	N/E	N/E
Pentaerythritol	115-77-5	5.0	N/E	N/E	N/E	N/E
MICROCRYSTALLINE SILICA	14808-60-7	1.0	0.025 mg/m3	N/E	0.1 mg/m3	N/E

## Section 3 - Hazards Identification

**Emergency Overview:** Contains silica which can cause cancer. Risk of Cancer depends on duration and level of exposure. May cause irritation to the respiratory tract. Use ventilation necessary to keep exposures below recommended exposure limits, if any.

**Effects Of Overexposure - Eye Contact:** May cause eye irritation.

**Effects Of Overexposure - Skin Contact:** May cause skin irritation.

**Effects Of Overexposure - Inhalation:** Use in inadequately ventilated areas may result in irritation headache and nausea. Inhalation may cause irritation to the respiratory tract (nose, mouth, mucous membranes).

**Effects Of Overexposure - Ingestion:** May be harmful if swallowed.

**Effects Of Overexposure - Chronic Hazards:** Crystalline silica is known to cause silicosis. Crystalline silica (Quartz) is classified as a known human carcinogen (Group 1) by IARC. Exposure is by route of inhalation. If material is in a liquid matrix it is unlikely to be inhaled. When sanding or grinding the finished product, there may be potential for crystalline silica to become airborne.

Under normal use conditions, this product is not expected to cause adverse health effects.

**Primary Route(s) Of Entry:** Skin Contact, Skin Absorption, Inhalation, Ingestion, Eye Contact

**Medical Conditions Prone to Aggravation by Exposure:** If you have a condition that could be aggravated by exposure to dust or organic vapors, see a physician prior to use.

## Section 4 - First Aid Measures

**First Aid - Eye Contact:** If material gets into eyes, flush with water immediately for 15 minutes. Consult a physician.

**First Aid - Skin Contact:** In case of contact, wash skin immediately with soap and water. Launder clothing before reuse.

**First Aid - Inhalation:** If inhaled, remove to fresh air. Administer oxygen if necessary. Consult a physician if symptoms persist or exposure was severe.

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

**Extinguishing Media:** Carbon Dioxide, Dry Chemical, Foam, Water Fog

**Unusual Fire And Explosion Hazards:** None known.

**Special Firefighting Procedures:** Non-flammable. Cool fire-exposed containers using water spray.

## Section 6 - Accidental Release Measures

**Steps To Be Taken If Material Is Released Or Spilled:** Dispose of material in accordance with all federal, state and local regulations. If a spill or leak occurs, contain the material. It can be allowed to dry or cure and presents no health or fire hazard. The material can then be removed and disposed of as non-hazardous waste. Before drying, the material can be washed or removed using soap and water. Use personal protective equipment as necessary.

## Section 7 - Handling And Storage

**Handling:** Do not get in eyes, on skin, or on clothing. Keep container tightly closed when not in use. Wear personal protection equipment. Wash thoroughly after handling. Use only in accordance with Application instructions, container label and Product Data Sheet.

**Storage:** Protect from freezing. Keep container closed when not in use. Do not store with strong alkali or acids.

## Section 8 - Exposure Controls / Personal Protection

**Engineering Controls:** General ventilation should be provided to maintain ambient concentrations below nuisance levels.

**Respiratory Protection:** Use only with ventilation to keep levels below exposure guidelines listed in Section 2. User should test and monitor exposure levels to ensure all personnel are below guidelines. If not sure, or not able to monitor, use MSHA/NIOSH approved supplied air respirator. Follow all current OSHA requirements for respirator use. For silica containing coatings in a liquid state, and/or if no exposure limits are established in Section 2 above, supplied air respirators are generally not required.

Once the product has been wetted, the potential for silica dust exposure is essentially eliminated.

**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:** 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.

**Hygienic Practices:** Contaminated clothing should be changed and washed before reuse. Eating, drinking and smoking in immediate work area should be prohibited.

## Section 9 - Physical And Chemical Properties

<b>Boiling Range:</b>	223°F (106°C) - 212°F (100°C)	<b>Vapor Density:</b>	<1 (Air = 1)
<b>Odor:</b>	Mild ammonia odor	<b>Odor Threshold:</b>	N.E.
<b>Appearance:</b>	Caulk: Orange	<b>Evaporation Rate:</b>	
<b>Solubility in H2O:</b>	Dilutable	<b>Specific Gravity:</b>	1.420
<b>Freeze Point:</b>	32°F (0°C)	<b>PH:</b>	7.4 to 9
<b>Vapor Pressure:</b>	17 mmHg @ 20°C		
<b>Physical State:</b>	Liquid		

(See section 16 for abbreviation legend)

## Section 10 - Stability And Reactivity

**Conditions To Avoid:** None

**Incompatibility:** None

**Hazardous Decomposition Products:** None are known.

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

**Stability:** This product is stable under normal storage conditions.

## Section 11 - Toxicological Information

**Product LD50:** N/D

**Product LC50:** N/D

<b>Chemical Name</b>	<b>CAS Number</b>	<b>LD50</b>	<b>LC50</b>
Refractory Ceramic Fibers	142844-00-6	NOT AVAILABLE	NOT AVAILABLE
Zinc Borate	01332-07-6	>10 G/KG, ORAL, RAT	NOT AVAILABLE
MICA	12001-26-2	NOT AVAILABLE	NOT AVAILABLE
Pentaerythritol	115-77-5	>19500 MG/KG, ORAL RAT	N/E
MICROCRYSTALLINE SILICA	14808-60-7	NOT AVAILABLE	NOT AVAILABLE

## Section 12 - Ecological Information

**Ecological Information:** No data

## Section 13 - Disposal Information

**Disposal Information:** Dispose of in accordance with 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>	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

### CERCLA - SARA HAZARD CATEGORY

This product has been reviewed according to the EPA Hazard Categories promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

### SARA SECTION 313

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

<b>Chemical Name</b>	<b>CAS Number</b>
Zinc Borate	01332-07-6

## TOXIC SUBSTANCES CONTROL ACT

All components of this product are listed on the TSCA inventory.

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

<u>Chemical Name</u>	<u>CAS Numbers</u>
Refractory Ceramic Fibers	142844-00-6

## U.S. STATE REGULATIONS AS FOLLOWS:

### NEW JERSEY RIGHT-TO-KNOW

The following materials are non-hazardous, but are among the top five components in this product.

<u>Chemical Name</u>	<u>CAS Number</u>
Acrylic Polymer	TRADE SECRET
WATER	7732-18-5
Ammonium polyphosphate	68333-79-9

### PENNSYLVANIA RIGHT-TO-KNOW

The following non-hazardous ingredients are present in the product at greater than 3%.

<u>Chemical Name</u>	<u>CAS Number</u>
Acrylic Polymer	TRADE SECRET
WATER	7732-18-5
Ammonium polyphosphate	68333-79-9
Alkylphenol	TRADE SECRET
Ammonium Polyphosphate	TRADE SECRET

### CALIFORNIA PROPOSITION 65

**Warning: The following ingredients present in the product are known to the state of California to cause Cancer:**

<u>Chemical Name</u>	<u>CAS Number</u>
Refractory Ceramic Fibers	142844-00-6
MICROCRYSTALLINE SILICA	14808-60-7

**Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards:**

No California Proposition 65 Reproductive Toxins exist

## INTERNATIONAL REGULATIONS AS FOLLOWS:

### CANADIAN WHMIS

This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

**CANADIAN WHMIS CLASS:** Class D, Division 2

## Section 16 - Other Information

### HMIS Ratings

**Health: 2**                      **Flammability: 0**                      **Reactivity: 0**                      **Personal Protection: X**

**VOLATILE ORGANIC COMPOUNDS, GR/LTR MIXED (UNTHINNED): 20**

**REASON FOR REVISION:** Changes made in Section(s): 2, 3, 6, 7, 8, 10, 11, and 15

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

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