FIRE PROTECTION SYSTEMS INC.

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 Sealant	**Revision Date:**	08/20/2007
		Supercedes :	N/A
Product Use/Class:	Sealant		
		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 - Hazards Identification

Emergency Overview: Red. Non Sag gunnable paste. May cause irritation to the respiratory system. Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention.

Acute Potential Health Effects/Routes of Entry

Effects Of Overexposure - Eye Contact: Slightly irritating.

Effects Of Overexposure - Skin Contact: Irritant effect may be delayed.

Effects Of Overexposure - Inhalation: May cause slight irritation to the respiratory system.

Effects Of Overexposure - Ingestion: May cause irritation to the mouth, throat and stomach.

Effects Of Overexposure - Chronic Hazards: The International Agency for Research on Cancer (IARC) has classified ceramic fiber, fibrous glasswool, and mineral wool (rockwool and slagwool) as possible human carcinogens (Group 2B) based on sufficient evidence of carcinogenicity in animals but insufficient data in humans. In the National Toxicology Program's (NTP) 7th Annual Report on Carcinogens (1994), respirable glasswool was classified as reasonably anticipated to be carcinogenic. 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. OSHA considers fibrous glass dust a nuisance dust. Fibrous glass can cause dermatitis, local irritation. Long term overexposure to propylene glycol caused liver abnormalities, kidney damage in laboratory animals. Repeated excessive ingestion may cause central nervous system effects. Fillers are encapsulated and not expected to be released from the product under normal conditions of use.

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

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
Water	7732-18-5	30.0 - 60.0
Acrylic polymer	NJ TSRN# 51721300-5816P	15.0 - 40.0
Calcium carbonate (Limestone)	1317-65-3	15.0 - 40.0
White Mineral Oil	8042-47-5	5.0 - 10.0
Amine Phosphate	NJ TSRN#51721300-5352P	3.0 - 7.0
Expandable Graphite	NJ TSRN#51721300-5378P	1.0 - 5.0
1,3-Propanediol, 2,2, bis (hydroxymethyl)-	115-77-5	1.0 - 5.0
Fibrous Glass	65997-17-3	1.0 - 5.0
Amorphous silica	7631-86-9	1.0 - 5.0
Propylene Glycol	57-55-6	1.0 - 5.0
Melamine	108-78-1	0.5 - 1.5
Crystalline Silica (Quartz)/Silica sand	14808-60-7	0.1 - 1.0
Chlorothalonil	1897-45-6	-<1.0

Section 4 - First Aid Measures

Get immediate medical attention for any significant overexposure.

First Aid - Eye Contact: If material gets into eyes, flush with water immediately for 15 minutes. If irritation persists, get medical attention.

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

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

First Aid - Ingestion: If swallowed do not induce vomiting unless advised by a physician.. Seek medical attention or call nearest Poison Control Center immediately.

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: This product is not expected to burn under normal conditions of use. Carbon Dioxide, Dry Chemical, Foam, Water Fog

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 a NIOSH approved self-contained breathing unit and complete body protection. Cool surrounding containers with water in case of fire exposure.

Burning Rate: Non-Flammable Solid

Hazardous combustion products: Smoke, fumes

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Evacuate the area of unprotected personnel. Wear appropriate personal protection clothing and equipment. Follow exposure controls/personal protection guidelines in Section 8. Avoid contact with material. Scrape up and transfer to appropriate container for disposal. Keep out of water courses. Dispose of in accordance with local, state and federal regulations. Refer to Section 15 for SARA Title III and CERCLA information.

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. Do not breathe vapors. Wash thoroughly after handling. Precautions also apply to emptied containers. Do not use in confined or poorly ventilated areas. Do not weld, heat, cut or drill on full or empty containers. Use only in accordance with Carboline application instructions, container label and Product Data Sheet.

Storage: Protect from freezing. Keep container closed when not in use in a dry, well ventilated warehouse. Do not store with strong alkali or acids.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls: General ventilation is sufficient. Use local exhaust when the general ventilation is inadequate.

Respiratory Protection: Not required under normal conditions of use however, Dust masks recommended, however in confined areas or areas with poor ventilation, use NIOSH approved Organic Vapour Cartridge type respirators or MSHA/NISOH approved supplied air respirator. Follow all current OSHA requirements for respirator 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: 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. Leather shoes can absorb and allow hazardous materials to pass through. Check shoes carefully after soaking 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 particles Inhalable particles Total Dust Respirable fraction
Expandable Graphite	NJ TSRN #51721300-5378P	ACGIH TWA OSHA PEL OSHA PEL	2 mg/m3 15 mg/m3 5 mg/m3	Respirable fraction Total Dust Respirable fraction
1,3-Propanediol, 2,2, bis (hydroxymethyl)-	115-77-5	ACGIH TWA OSHA PEL OSHA PEL	10 mg/m3 5 mg/m3 15 mg/m3	 Respirable fraction Total Dust
Fibrous Glass	65997-17-3	ACGIH TWA Ontario	5 mg/m3 5 mg/m3	Inhalable Inhalable fraction
Amorphous silica	7631-86-9	ACGIH TWA ACGIH TWA Ontario Ontario OSHA PEL OSHA PEL OSHA TWA	3 mg/m3 10 mg/m3 3 mg/m3 10 mg/m3 15 mg/m3 5 mg/m3 0.8 mg/m3	Respirable particles Inhalable particles Respirable particles Inhalable particles Total Dust Respirable particles
Crystalline Silica (Quartz)/Silica sand	14808-60-7	ACGIH TWA Ontario OSHA TWA OSHA TWA OSHA PEL OSHA PEL	0.05 mg/m3 0.10 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

Boiling Range:	212°F (100°C)	**Vapor Density:**	Heavier Than Air
Odor:	Acrylate	**Odor Threshold:**	N.E.
Appearance:	Non-sag gunnable paste, Red	**Evaporation Rate:**	Not Available
Solubility in H2O:	Miscible	**Melting point/range**	32 °F, 0 °C
Freeze Point:	Not Available	**Specific Gravity:**	1.45
Vapor Pressure:	Not Available	**PH:**	7.0 to 10.0
Physical State:	Paste	**% Volatile Weight**	30%

Section 10 - Stability And Reactivity

Substance to Avoid: Avoid contact with strong oxidizing agents.

Hazardous Decomposition Products: None.

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

Chemical Name	CAS Number	LD50	LC50
Amorphous silica,	7631-86-9	22,500 mg/kg (Rat) Oral	
Propylene Glycol	57-55-6	30,000 mg/kg (Rat) Oral	
1,3-Propanediol, 2,2, bis (hydroxymethyl)-	115-77-5	25,500 mg/kg (Mouse) Oral	
Chlorothalonil	1897-45-6	10,000 mg/kg (Rat) Oral 10,000 mg/kg (Albino rat) dermal	

Section 12 - Ecological Information

Ecological Information: No data available

Section 13 - Disposal Information

Disposal Information: Waste not regulated under RCRA. Incinerate at EPA approved facility. Or 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

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

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

CANADIAN WHMIS CLASS: D2A, D2B This is a “controlled product” under the Canadian Workplace Materials Information System (WHMIS)

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.

Other Regulations

U.S. Federal regulations

SARA 313 Components : Chlorothalonil 1897-45-6

SARA 311/312 Hazards : Acute Health Hazard

OSHA Hazardous Components:

Calcium carbonate (Limestone)	1317-65-3
Expandable Graphite	NJ TSRN#51721300-5378P
Fibrous Glass	65997-17-3
Amorphous silica	7631-86-9
1,3-Propanediol, 2,2,bis (hydroxymethyl)-	115-77-5
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7
Chlorothalonil	1897-45-6

OSHA Status: Considered : Irritant

Hazardous based on the Following criteria:

OSHA Flammability : Not Regulated

Regulatory VOC (less water and exempt Solvent) :16g/l

VOC Method 310 0%

Chemical is listed as an IARC, NTP, OSHA, or ACGIH Carcinogen:

Fibrous Glass	65997-17-3
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7

U.S. State regulations:

MASS RTK Components:	Calcium carbonate (Limestone)	1317-65-3
	Expandable Graphite	NJ TSRN#51721300-5378P
	Fibrous Glass	65997-17-3
	Amorphous silica	7631-86-9
	1,3-Propanediol, 2,2,bis (hydroxymethyl)-	115-77-5
	Melamine	108-78-1
Penn RTK Components:	Water	7732-18-5
	Acrylic polymer	NJ TSRN# 51721300-5816P
	Calcium carbonate (Limestone)	1317-65-3
	White Mineral Oil	8042-47-5
	Amine Phosphate	NJ TSRN#51721300-5352P
	Expandable Graphite	NJ TSRN#51721300-5378P
	Fibrous Glass	65997-17-3
	Amorphous silica	7631-86-9
	1, 3-Propanediol, 2,2, bis (hydroxymethyl)-	115-77-5
	Propylene Glycol	57-55-6
	Melamine	108-78-1
NJ RTK Components:	Water	7732-18-5
	Acrylic polymer	NJ TSRN# 51721300-5816P
	Calcium carbonate (Limestone)	1317-65-3
	White Mineral Oil	8042-47-5
	Amine Phosphate	NJ TSRN#51721300-5352P
	Fibrous Glass	65997-17-3
	Crystalline Silica (Quartz)/Silica sand	14808-60-7

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

Fibrous Glass	65997-17-3
Crystalline Silica (Quartz)/Silica sand	14808-60-7
Chlorothalonil	1897-45-6
Formaldehyde	50-00-0
Sulfuric Acid	7664-93-9

Section 16 - Other Information

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

Health:	**1**
Flammability:	**0**
Reactivity:	**0**
PPE	

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

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

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