



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 Mortar
Revision Date: 03/05/2010
Identification Number: 04AD000000M
Supercedes : 10/10/2008
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
ANHYDROUS ALUMINUM SILICATE	66402-68-4	60.0	N/E	N/E	N/E	N/E
PORTLAND CEMENT	65997-15-1	25.0	10 mg/m ³	N/E	N/E	N/E
MICROCRYSTALLINE SILICA	14808-60-7	15.0	0.025 mg/m ³	N/E	0.1 mg/m ³	N/E
LIMESTONE	1317-65-3	5.0	N/E	N/E	5 MG/M ³	N/E
MAGNESIUM OXIDE	1309-48-4	5.0	N/E	N/E	N/E	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. Floors in spray area may be slippery when wet. Post "Slippery When Wet" signs where appropriate. Direct contact with spray can damage eyes.

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

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

Effects Of Overexposure - Inhalation: Inhalation may cause irritation to the respiratory tract (nose, mouth, mucous membranes). Overexposure will be irritating to mucous membranes.

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

Effects Of Overexposure - Chronic Hazards: Under normal use conditions, this product is not expected to cause adverse health effects. 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.

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. May aggravate dermatitis and asthma.

Section 4 - First Aid Measures

First Aid - Eye Contact: Flush eyes with running water for at least 15 minutes. Seek medical attention if irritation persists.

First Aid - Skin Contact: Wash skin thoroughly with soap and water.

First Aid - Inhalation: Move person to fresh air. Seek medical attention if irritation persists.

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: None. Product will not burn.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Spilled material becomes very slippery when wet. Sweep up material and place in appropriate disposal container. Use sweeping compound or other cleaning aids to pick up residues. Wash down area thoroughly with water. Dispose of material in accordance with all federal, state, and local regulations. Use personal protective equipment as necessary.

Section 7 - Handling And Storage

Handling: Avoid breathing dust. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling.

Storage: Keep Dry. Keep containers closed when not in use. Store in a cool, dry place with adequate ventilation.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls: Use appropriate equipment to keep nuisance dust cloud levels low.

Respiratory Protection: Wear NIOSH-approved respiratory protection (generally a N-95 dust mask is appropriate) to prevent employee exposures from exceeding the limits specified in Section 2. A properly fitted NIOSH/MSHA approved disposable dust respirator should be used when : high dust levels are encountered; the level of fibers in the air exceeds the OSHA permissible limits; or if irritation occurs. Once the product has been wetted, the potential for silica dust exposure is essentially eliminated.

Skin Protection: Sensitive individuals should wear gloves to prevent repeated contact.

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: Handle in accordance with good industrial hygiene and safety practices. These practices include: avoiding unnecessary exposures to dusts and fibers by using good local exhaust ventilation; removal of the material from the skin and eyes after exposure; removal of material from clothing (Use vacuum equipment to remove fibers and dusts from clothing. Compressed air should never be used. Always wash contaminated work clothes separately from other laundry and wipe out washer / sink to prevent loose fibers from getting on other articles); keep the work area clean of dusts and fibers generated during fabrication (Use vacuum equipment to clean up dusts and fibers. Avoid sweeping or using compressed air as these techniques re-suspend dusts and fibers into the air.) and; have access to safety showers and eye wash stations.

Section 9 - Physical And Chemical Properties

Boiling Range:	982°C / 1800°F - 982°C / 1800°F	Vapor Density:	N/A
Odor:	Odorless	Odor Threshold:	N.E.
Appearance:	Gray/black powder mixture	Evaporation Rate:	N/A
Solubility in H2O:	Slight	Specific Gravity:	1.300
Freeze Point:	N/A	PH:	N/D
Vapor Pressure:	N/A		
Physical State:	Powder		

(See section 16 for abbreviation legend)

Section 10 - Stability And Reactivity

Conditions To Avoid: Keep Dry. Material becomes hard and unusable when exposed to water.

Incompatibility: Avoid contact with strong oxidizing agents.

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

<u>Chemical Name</u>	<u>CAS Number</u>	<u>LD50</u>	<u>LC50</u>
ANHYDROUS ALUMINUM SILICATE	66402-68-4	NOT AVAILABLE	NOT AVAILABLE
PORTLAND CEMENT	65997-15-1	NOT AVAILABLE	NOT AVAILABLE
MICROCRYSTALLINE SILICA	14808-60-7	NOT AVAILABLE	NOT AVAILABLE
LIMESTONE	1317-65-3	NOT AVAILABLE	NOT AVAILABLE
MAGNESIUM OXIDE	1309-48-4	NOT AVAILABLE	NOT AVAILABLE

Section 12 - Ecological Information

Ecological Information: No data

Section 13 - Disposal Information

Disposal Information: RCRA HAZARDS CLASS: Non Hazardous Material. Take up material and seal tightly for proper disposal.

Section 14 - Transportation Information

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

Chronic Health Hazard

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:

None

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:

No TSCA 12(b) Substances exist in this product

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>
Black Iron Oxide	1317-61-9
CALCIUM SULFATE	13397-24-5

PENNSYLVANIA RIGHT-TO-KNOW

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

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>
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): 0

REASON FOR REVISION: Changes made in Section(s): 2, 3, 4, 6, 7, 8, 11, 13, and 15

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

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