

Material Safety Data Sheet

Section 1 - Chemical Product / Company Information

Product Name: A/D FIREBARRIER PUTTY II **Revision Date:** 04/09/2010
Supercedes : 08/21/2007

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 Solid. 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	15.0 – 40.0
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
Nitrogen/Phosphorus Flame Retardant	NJ TSRN# 51721300-6005P	5.0 – 10.0
Water	7732-18-5	3.0 – 7.0
1, 3-Propanediol, 2,2,bis(hydroxymethyl)-	115-77-5	1.0 – 5.0
Formaldehyde	50-00-0	< 0.1

The ingredients listed below are hazardous as defined in the controlled products regulation. (CPR).		
Zinc Borate	1332-07-6	1.0 – 5.0
Titanium Dioxide	13463-67-7	0.1 – 1.0
Crystalline Silica (Quartz)/Silica Sand	14808-60-7	- < 1.0
Silica (crystalline-cristobalite)	14464-46-1	- < 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: Get medical attention. Do not induce vomiting.

Section 5 - Fire Fighting Measures

Flash Point: Not Available

Method: Not applicable

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

Transfer to appropriate container for disposal. 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. Store under dry warehouse conditions away from heat and all ignition sources

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.

Hand Protection: Protect hands with impervious gloves

Eye Protection: Generally not required under normal conditions of use. Use safety glasses with side shields if eye contact is likely.

Skin and Body protection: Not required

Other protective measures: Other equipment not normally required. Use professional judgment in the selection, care, and use.

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
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 TWA OSHA TWA OSHA TWA OSHA PEL OSHA PEL	0.025 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
Silica (crystalline-cristobalite)	14464-46-1	ACGIH TWA Ontario TWA OSHA TWA OSHA TWA OSHA PEL OSHA PEL	0.025 mg/m3 0.05 mg/m3 0.05 mg/m3 0.15 mg/m3 15 mg/m3 5 mg/m3	Respirable fraction Respirable fraction Respirable Total Dust Total Dust Respirable fraction
Titanium Dioxide	13463-67-7	Ontario TWA ACGIH TWA	10 mg/m3 10 mg/m3	Total Dust

Section 9 - Physical And Chemical Properties

Boiling Point/Range:	Not Available	Vapor Density:	Heavier Than Air
Odor:	Negligible	Evaporation Rate:	Not Available
Appearance:	Solid	Melting point/range	Not Available
Color	Red	Specific Gravity:	1.44
Solubility in H2O:	Insoluble	PH:	Not Available
Freeze Point:	Not Available	% Volatile Weight	5%
Vapor Pressure:	Not Available		
Physical State:	Solid		

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) 11,300 mg/kg (Guinea pig)

Formaldehyde, CAS-No: 50-00-0

Acute Oral Toxicity (LD-50 oral) 800 mg/kg (Rat) 260 mg/kg (Guinea pig) 100 mg/kg (Rat) 42 mg/kg (Mouse)

Acute inhalation toxicity (LC-50) 0.82 mg/l for 30 min (Rat) 0.48 mg/l for 4 h (Rat) 0.414 mg/l for 4h (Mouse)
0.4 mg/l for 2 h (Mouse)

Section 12 - Ecological Information

No data available

Section 13 - 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.

Canada-Dispose in suitable container as non-hazardous waste according to all applicable regulations

Section 14 - Transportation Information

TDG/DOT Shipping description: Not Regulated

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

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
Silica (crystalline-cristobalite)	14464-46-1
Formaldehyde	50-00-0

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

OSHA Flammability : Not Regulated

Regulatory VOC (less water and exempt solvent) : 7 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

Silica (crystalline-cristobalite) 14464-46-1

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
Crystalline Silica (Quartz)/Silica sand 14808-60-7
Formaldehyde 50-00-0

Penn 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
Nitrogen/Phosphorous Flame Retardant NJ TSRN# 51721300-6005P
Water 7732-18-5
Zinc Borate 1332-07-6
1, 3-Propanediol, 2,2, bis (hydroxymethyl)- 115-77-5

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
Silica (crystalline-cristobalite) 14464-46-1

WARNING!

Contains 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
Silica (crystalline-cristobalite) 14464-46-1
Formaldehyde 50-00-0

Section 16 - Other Information

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

Health:	1
Flammability:	0
Reactivity:	0
Personal Protection:	

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.

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

Revised Sections: All sections revised 04-09-2010