

**MATERIAL SAFETY DATA SHEET**  
**A/D Type HC**

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Date prepared: August 2006

**SECTION I - PRODUCT INFORMATION**

- Trade Name and Synonyms:  
**A/D TYPE HC**, sprayed cementitious Hard Coat and Hard Clad.
- Manufacturer's/Supplier's Name and Address  
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  
Prepared by; Technical Service Department
- Chemical Name and Synonyms:  
Blend of Portland cement, vermiculite, vinyl polymer and other minor additives.

**SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION**

<u>HAZARDOUS INGREDIENT</u>	<u>%</u>	<u>CAS NO.</u>	<u>ACGIH TLV</u>	<u>LD50</u>
Portland Cement	60 – 75	65997-15-1	TWAEV: 15mg/m <sup>3</sup> total dust	N/A
Vermiculite	25 – 40	1318-00-9	15 mg/m <sup>3</sup> total dust or 5 mg/m <sup>3</sup> respirable dust	N/A

**SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS**

- Boiling Point / Melting Point: Not Applicable
- Vapor Pressure (mmHG): Not Applicable
- Vapor Density: (air = 1): Not Applicable
- Solubility in Water: Slight
- Specific Gravity: Not Applicable
- Evaporation Rate: Not Applicable
- Volatiles: Not Applicable
- Appearance: Grey powder mixture, looks like insulation
- Odor Threshold: Unknown
- pH (in water): 7 to 9
- Bulk Density: 640-960 kg/m<sup>3</sup> or 40-60lb/ft<sup>3</sup>

**SECTION IV - FIRE AND EXPLOSION HAZARD DATA**

- Flammability: None
- Flash Point: Not applicable
- Flammable Limits: Not applicable
- Extinguishing Media: Not applicable
- Special fire Fighting Procedure: Not applicable
- Unusual Fire and Explosion Hazards: None
- LEL/UEL: Not applicable

**SECTION V - REACTIVITY DATA**

- Stability: Stable under normal conditions
- Conditions to Avoid: Keep dry to avoid hardening before use
- Incompatibility (materials to avoid): None Known
- Hazardous Decomposition Products: None Known
- Hazardous polymerization: Will not occur
- Polymerization conditions to avoid: Not applicable

**SECTION VI - TOXICOLOGICAL DATA**

Primary Routes of Entry: Inhalation, ingestion, skin and eye contact

Acute Exposure: Direct eye contact may cause physical or mechanical irritation and/or inflammation of the cornea. Dust release during handling or mixing may cause symptoms typical of nuisance dust including inflammation of the lining tissue of the interior of the nose and irritation of the upper respiratory system. Portland cement wetted by body fluids can cause dry skin and/or alkali burns. Ingestion may cause adverse health effects.

Chronic Exposure: Prolonged or reported skin contact may cause dry skin and alkali burns. Long term inhalation of quartz or silica may cause silicosis, pneumoconiosis, dyspnea and decreased lung function

Carcinogenicity: NTP – NO      IARC – NO      OSHA- NO

Medical Conditions Aggravated by Exposure: Any condition, which may be aggravated by mechanical irritants.

**SECTION VII - PREVENTATIVE MEASURES**

1. Respiratory Protection: Use NIOSH approved Type TC-84A, Protection-N95 or equivalent for nuisance dust. Ventilation sufficient to maintain dust levels below TLV
2. Skin Protection: Gloves, loose fitting, long sleeve shirt and pants
3. Eye protection: Safety glasses or safety goggles.
4. Ingestion: Do not ingest.

**SECTION VIII - FIRST AID PROCEDURES**

1. Inhalation: Remove from exposure area. If symptoms persist, obtain medical.
  2. Skin Contact: Remove contaminated clothing. Wash gently and thoroughly with water and non-abrasive soap. Contaminated clothing should be laundered before re-use and separated from other laundry. If symptoms persist, obtain medical.
  3. Eye Contact: Immediately flush the contaminated eye(s) with water. Seek medical attention where irritation occurs.
  4. Ingestion: Seek medical attention immediately.
- Use normal personal hygiene after contact to remove any material contaminants.

**SECTION IX - PRECAUTIONS FOR SAFE HANDLING AND USE**

1. Steps to be taken in case material is released or spilled:  
Sweep up and place in disposal containers. Avoid creation and inhalation of dust.
2. Waste Disposal Method:  
Disposal should conform to local, provincial/state, federal laws & regulations.
3. Precautions to be taken in handling and storing:  
Avoid inhalation of dust during use. Avoid skin and eye contact. Keep dry to prevent hardening before use.

Use normal personal hygiene to remove material contaminants.

**SECTION X - REGULATORY CLASSIFICATION**

- WHMIS Classification: 1. CLASS D - Poisonous and Infectious Material  
Division 2 – Materials causing other toxic effects
2. CLASS E – Corrosive Material
- TDG Information: Not regulated in Canada

**SECTION XI - SOURCES USED**

1. Material Safety Data Sheets from raw material suppliers.

**APPENDIX A**

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. **VENDOR SPECIFICALLY DISCLAIMS ANY WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE.** In no event shall the vendor be liable for special, indirect or consequential damages.

Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.