



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 TC-55 (Clear)	Revision Date:	03/01/2010
Identification Number:	30AD0000001	Supersedes :	03/01/2010
Product Use/Class:		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

No hazardous components exist in this product

Section 3 - Hazards Identification

Emergency Overview: 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: 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:
(No Flashpoint Method Specified)

Lower Explosive Limit, %:
Upper Explosive Limit, %:

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.

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

Boiling Range:
Odor:
Appearance:
Solubility in H₂O:
Freeze Point:
Vapor Pressure:
Physical State:

Vapor Density:
Odor Threshold:
Evaporation Rate:
Specific Gravity:
PH:

(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:

Product LC50:

No Toxicological Information exists

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

DOT Proper Shipping Name:

Packing Group:

DOT Technical Name:

Hazard Subclass:

DOT Hazard Class:

Resp. Guide Page:

DOT UN/NA Number:

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:

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>
Vinyl Acrylic Copolymer	NA

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>
Vinyl Acrylic Copolymer	NA

CALIFORNIA PROPOSITION 65

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

No California Proposition 65 Carcinogens exist

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: No WHMIS Class Assigned

Section 16 - Other Information

HMIS Ratings

Health: Flammability: Reactivity: Personal Protection:

VOLATILE ORGANIC COMPOUNDS, GR/LTR MIXED (UNTHINNED): 0

REASON FOR REVISION: Changed to 16 Section Format

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

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.

TYPE TC-55 Sealer

1. PRODUCT NAME

A/D TYPE TC-55 Sealer

2. PRODUCT DESCRIPTION

Basic Use: A/D Type TC-55 Sealer may be used as an adhesive and/or sealer with A/D's cementitious and fibrous sprayed fire resistive (fireproofing) and insulation products. It may be used as lockdown adhesive for asbestos removal/fireproofing respray projects. A/D Type TC-55 improves adhesive bond of fireproofing/insulation products to steel, concrete and other substrates. When applied as a topcoat/sealer, it improves most physical characteristics, reduces air erosion losses and may be used to colour the fireproofing or insulation surface.

Composition and Materials: A/D Type TC-55 is a water based vinyl acrylic copolymer emulsion of fine particle size. Films retain high degree of flexibility and elongation. Normally clear and colourless, it is also available in a limited range of colours.

Limitations: Use and apply in accordance with manufacture's instructions and published fire-rated designs (A/D Type TC-55 is the optional adhesive/sealer referenced in ULC and ULI Designs for A/D Type FP sprayed fireproofing). Colour intensity and film build will vary depending on dilution and application rates and most importantly, texture, density and finish of surface being coated. A/D Fire protection systems cannot be held responsible for colour variations on site.

Packaging: A/D Type TC-55 is packaged in 19 L (5 gal) and 170L (45 gal) pails or drums.

Colour Availability: Clear, blue, white and black (also see "limitations" section above).

3. TECHNICAL DATA

Physical Properties: Refer to Table 1.

Surface Burning Characteristics

	On Cement Board*	On Type FP**
Flame Spread	5	15
Smoke Development	0	0

*CAN/ULC-S102 **ASTM - E84

4. INSTALLATION

Surface Preparation: Surfaces to receive A/D Type TC-55 must be clean and free of dirt, oil, grease or other substances, which may impair adhesion.

Method: A/D Type TC-55 is applied only by authorized applicators. Protect sprinkler heads and all surfaces not intended to be coated. Dilute as required with clean

potable water. Apply with spray, brush or roller. Clean up with water and remove masking.

Application Rates and Coverage: The following are suggestions only. Film build and colour intensity may vary significantly depending on dilution and application rate, and texture, density and finish of substrate being coated. Where coloured finish over fibrous and cementitious materials is desired, we recommend extra attention be given to preparation and application of the fibrous or cementitious surfaces.

As an adhesive

- approx. 500 - 600 ft²/gal (10.2 - 12.2 m²/L) (diluted one part water to one part adhesive)

As a sealer

- Light coat: approx. 500 - 882 ft²/gal (10.2 - 18 m²/L)

- Medium coat: approx. 300 - 500 ft²/gal (6.1 - 10.2 m²/L)

- Heavy coat: approx. 100 to 300 ft²/gal (2 - 6.1 m²/L) (dilute one part water to three parts adhesive) (Sealer with tint, 40 (fiber) to 100 (cementitious) ft²/gallon (0.8 to 2 m²/L))

5. AVAILABILITY AND COST

Availability: A/D sales offices and technical representatives are located throughout North America.

PHYSICAL PROPERTIES Table 1

Property	Result
Solids Content	49% ± 0.5 (clear)
Viscosity	25°C, Brookfield LVF 3/12 2200 - 3400 (clear), 1500 - 3400 (colours)
pH @ 25°C	4.0 - 5.0
Particle Size	0.2 - 0.5 microns
Specific Gravity	1.09 (clear), 1.04 (black)
Weight per US gal @ 25°C	9.15 lbs
Freeze/Thaw Stability	Very Good
Film Hardness	Soft and flexible
Film Clarity	Very Good
Film Gloss	Very Good
Free Monomer	0.5% maximum

6. MAINTENANCE:

No maintenance should be required. Damage caused by other trades should be patched at the expense of trade causing damage.

7. TECHNICAL SERVICES

Contact nearest A/D representative or office.

8. Health and Safety: To safely use this product, read and abide by the material safety data sheet (MSDS).

A/D FIRE PROTECTION SYSTEMS

Head Office: 420 Tapscott Rd., Scarborough, Ontario M1B 1Y4

Tel: 1 (800) 263-4087 or (416) 292-2361 Fax: (416) 298-5887

Visit our Internet Site: www.adfire.com email: mail@adfire.com

Contact By State or Province

Capital Region: Tel: 800-650-0881, Fax: 613-841-7768

Quebec and Maritimes: Tel: 800-914-6506, Fax: 450-661-8776

ISO9001
REGISTERED COMPANY

