

**MATERIAL SAFETY DATA SHEET**

**SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION**

Manufacturer's name and address:

Supplier's name and address:



Refer to Manufacturer

Ardex Engineered Cements

400 Ardex Park Drive  
Aliquippa, PA, US  
15001

Information Telephone No. : (724) 203-5000  
Visit our Website: <http://www.ardex.com>

24 Hr. Emergency Tel # : CHEM-TEL: 1-800-255-3924 OR 1-813-248-0585 (call collect)

Product Identifier : **ARDEX SD-M™ DESIGNER FLOOR FINISH - GRAY**

Chemical Name : N/Ap Chemical Family : N/Ap

Chemical Formula : N/Ap Trade Name/Synonyms : ARDEX SD-M (GRAY)

Molecular Weight : N/Ap Material Use : Portland cement.

WHMIS Classification : Class E (Corrosive Material)

HMIS Rating : \* - Chronic hazard 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe

Health: \*3 Flammability: 1 Reactivity: 1

**SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS**

| Ingredients             | CAS #      | % (weight)    | ACGIH TLV                                                                     |      | OSHA PEL                                                                       |      |
|-------------------------|------------|---------------|-------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------|------|
|                         |            |               | TWA                                                                           | STEL | PEL                                                                            | STEL |
| Portland cement         | 65997-15-1 | 30.00 - 60.00 | 10 mg/m <sup>3</sup>                                                          | N/Av | 15 mg/m <sup>3</sup><br>(Total dust);<br>5 mg/m <sup>3</sup><br>(respirable)   | N/Av |
| Limestone               | 1317-65-3  | 30.00 - 60.00 | 10 mg/m <sup>3</sup><br>(Calcium carbonate)                                   | N/Av | 15 mg/m <sup>3</sup><br>(Total dust);<br>5 mg/m <sup>3</sup><br>(respirable)   | N/Av |
| Vinyl acetate copolymer | 24937-78-8 | 10.00 - 30.00 | *10 mg/m <sup>3</sup><br>(inhalable); *3<br>mg/m <sup>3</sup><br>(respirable) | N/Av | *15 mg/m <sup>3</sup><br>(Total dust);<br>*5 mg/m <sup>3</sup><br>(respirable) | N/Av |

\*Note: The OSHA PEL's and ACGIH TLV's listed above for Vinyl acetate copolymers are for 'Particulates Not Otherwise Specified / Regulated'.

This material is classified as hazardous under OSHA regulations (29CFR 1910.1200).

**SECTION 3 - HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW**

Fine, gray powder with no odor.

DANGER! Corrosive. Causes eye burns. May cause skin burns. Symptoms may be delayed. May cause respiratory irritation.

**\*\*\*POTENTIAL HEALTH EFFECTS\*\*\***

Target organs : Lungs; eyes; Skin.

Routes of exposure : Inhalation: YES Skin Absorption: NO Skin & Eyes: YES Ingestion: YES

Signs and symptoms of short-term (acute) exposure

Inhalation : May cause severe irritation to the nose, throat and respiratory tract. Symptoms may include coughing, shortness of breath, wheezing and reduced lung function.

- Skin* : Direct contact may cause mild to severe irritation with possible burns. Contact with wet material, or moist areas of the skin, causes skin burns. Skin thickening, cracking, or fissuring may also occur. Symptoms may be delayed.
- Eyes* : Direct contact may strongly irritate or burn the eyes. Could cause blindness.
- Ingestion* : May cause severe irritation to the mouth, throat and stomach. Symptoms may include burning pain, vomiting and diarrhea.

**Effects of long-term (chronic) exposure**

- : Prolonged inhalation may cause adverse lung effects with symptoms including coughing, mucous production and difficulty breathing.

**Conditions aggravated by overexposure**

- : Pre-existing skin, eye and respiratory disorders.

**Carcinogenic status**

- : See TOXICOLOGICAL INFORMATION, Section 11.

**Additional health hazards**

- : See TOXICOLOGICAL INFORMATION, Section 11.

**Potential environmental effects**

- : See ECOLOGICAL INFORMATION (Section 12).

**SECTION 4 - FIRST AID MEASURES**

- Inhalation** : If inhaled, move to fresh air. If breathing is difficult, give oxygen by qualified medical personnel only. If not breathing, clear airway and start artificial respiration. Seek immediate medical attention/advice.
- Skin contact** : Remove/Take off immediately all contaminated clothing. Flush affected skin with gently flowing lukewarm water for at least 20 minutes. Use a mild soap if available. Seek immediate medical attention/advice.
- Eye contact** : Immediately flush eyes thoroughly with running water for at least 20 to 30 minutes. Seek immediate medical attention/advice.
- Ingestion** : Never give anything by mouth to an unconscious person. Rinse mouth with water. Do NOT induce vomiting. Have victim drink one to two glasses of water. Seek immediate medical attention/advice.
- Notes For Physician** : Treat symptomatically.

**SECTION 5 - FIRE FIGHTING MEASURES**

**Fire hazards/conditions of flammability**

- : Not flammable under normal conditions of use. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Contact with water may cause hydration, and formation of caustic alkaline material.

**Flammability classification (OSHA 29 CFR 1910.1200)**

- : Non-flammable.

**Flash point**

- : Not applicable.

**Flash point Method**

- : Not applicable.

**Auto-ignition temperature** : N/Av

**Lower flammable limit (% by vol.)**

- : Not applicable.

**Upper flammable limit (% by vol.)**

- : Not applicable.

**Oxidizing properties**

- : None.

**Flame Projection Length**

- : Not applicable.

**Flashback observed**

- : Not applicable.

**Explosion data: Sensitivity to mechanical impact / static discharge**

- : Not available.

**Suitable extinguishing media**

- : Dry chemical, carbon dioxide and foam.

**Special fire-fighting procedures/equipment**

- : Firefighters should wear proper protective equipment and self contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame. After fires have been extinguished, carefully clean all equipment and surfaces exposed to fumes.

**Hazardous combustion products**

- : Carbon oxides, calcium oxide, vinyl acetate, various hydrocarbons, aldehydes (e.g. acrolein and formaldehyde) and other toxic vapors and gases that are common to thermal degradation of organic compounds.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

- Personal precautions** : Corrosive! Wear chemically resistant personal protective equipment during cleanup. Restrict access to area until completion of clean-up. All persons dealing with clean-up should wear the appropriate chemically protective equipment. Refer to point 8 on this Safety Data Sheet, EXPOSURE CONTROLS / PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.
- Environmental precautions** : Do not allow product to enter waterways. Do not allow material to contaminate ground water system.
- Spill response/cleanup** : Ventilate area of release. Eliminate all ignition sources. Stop spill or leak at source if safely possible. Contain material, preventing it from entering sewer lines or waterways. Using HEPA vacuum, or other dustless methods, gather up spilled material and place in suitable container for later disposal (see section 13). Avoid adding water, material becomes alkaline when wet. Notify the appropriate authorities as required.
- Prohibited materials** : Avoid adding water, material becomes alkaline when wet.
- Special spill response procedures** : If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8002).  
US CERCLA Reportable quantity (RQ): None reported.

**SECTION 7 - HANDLING AND STORAGE**

- Safe Handling procedures** : Corrosive! Wear chemically resistant protective equipment during handling. Use in a well ventilated area. Training the workers on the potential health hazards associated with product vapor, dust or fume is important. Secondary inhalation exposures could occur when cleaning equipment, or when removing or laundering the clothing. Do not breathe vapours/dust. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Avoid wet or humid conditions. Keep away from acids and incompatibles. Avoid and control operations which create dust. Keep containers tightly closed when not in use. Wash thoroughly after handling.
- Storage requirements** : Store in a cool, dry, well-ventilated area. No smoking in the area. Do not store near any incompatible materials (see Section 10). Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Protect against physical damage.
- Incompatible materials** : See Section 10.
- Special packaging materials** : Always keep in containers made of the same materials as the supply container.

**SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION**

- Ventilation and engineering measures** : Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.
- Respiratory protection** : Respiratory protection is required if the concentrations exceed the TLV. If the TLV is exceeded, a NIOSH/MSHA-approved respirator is advised.
- Skin protection** : Impervious gloves must be worn when using this product. Advice should be sought from glove suppliers.
- Eye / face protection** : Chemical goggles must be worn to prevent dusts from entering the eyes.
- Other protective equipment** : Where extensive exposure to product is possible, use resistant coveralls, apron and boots to prevent contact. An eyewash station and safety shower should be made available in the immediate working area.
- General hygiene considerations** : Avoid contact with eyes, skin and clothing. Do not breathe vapours/dust. Do not eat, drink or smoke when using this product. Clean all equipment and clothing, and shower with mild soap and water to remove dusts, at end of each work shift.
- Permissible exposure levels** : For individual ingredient exposure levels, see Section 2.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

|                               |                       |                                              |                                   |
|-------------------------------|-----------------------|----------------------------------------------|-----------------------------------|
| <b>Physical state</b>         | : fine powder (solid) | <b>Appearance</b>                            | : Fine, gray powder with no odor. |
| <b>Odour</b>                  | : No odour.           | <b>Odour threshold</b>                       | : N/Av                            |
| <b>pH</b>                     | : 10.5                | <b>Specific gravity</b>                      | : 1.2                             |
| <b>Boiling point</b>          | : N/Av                | <b>Coefficient of water/oil distribution</b> | : N/Av                            |
| <b>Melting/Freezing point</b> | : N/Av                | <b>Solubility in water</b>                   | : < 50 g / 1000 cm <sup>3</sup>   |



**RCRA** : If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

**SECTION 14 - TRANSPORTATION INFORMATION**

| Regulatory Information                  | UN Number | Shipping Name  | Class         | Packing Group | Label                                                                               |
|-----------------------------------------|-----------|----------------|---------------|---------------|-------------------------------------------------------------------------------------|
| TDG                                     | None      | Not regulated. | not regulated | none          |  |
| <b>TDG Additional information</b>       | None.     |                |               |               |                                                                                     |
| 49CFR/DOT                               | None      | Not regulated. | not regulated | none          |  |
| <b>49CFR/DOT Additional information</b> | None.     |                |               |               |                                                                                     |

**SECTION 15 - REGULATORY INFORMATION**

**Canadian Information:**

**Canadian WHMIS Classification:** This product is a WHMIS Controlled Product. It meets one or more of the criteria for a controlled product provided in Part IV of the Controlled Products Regulations (CPR). Refer to Section 1 for a WHMIS Classification for this product.

**This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.**

**Canadian Environmental Protection Act (CEPA):** Portland cement and Vinyl acetate copolymer are listed on the DSL. Calcium carbonate is listed on the NDSL.

**US Federal Information:**

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

CERCLA Reportable Quantity (RQ) (40 CFR 117.302): None reported.

SARA TITLE III: Sec. 313, Toxic Chemicals Notification, 40 CFR 372: This material is not subject to SARA notification requirements, since it does not contain any Toxic Chemical constituents above de minimus concentrations.

**US State Right to Know Laws:**

California Proposition 65: To the best of our knowledge, this product does not contain any chemicals known to the State of California to cause cancer or reproductive harm.

**SECTION 16 - OTHER INFORMATION**

**Legend** : ACGIH: American Conference of Governmental Industrial Hygienists  
 CAS: Chemical Abstract Services  
 CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980  
 CFR: Code of Federal Regulations  
 DOT: Department of Transportation  
 DSL: Domestic Substances List  
 EPA: Environmental Protection Agency  
 IARC: International Agency for Research on Cancer  
 N/Av: not available  
 N/Ap: not applicable  
 NDSL = Non-Domestic Substances List  
 NIOSH: National Institute of Occupational Safety and Health

NTP: National Toxicology Program  
OSHA: Occupational Safety and Health Administration  
PEL: Permissible exposure limit  
RCRA: Resource Conservation and Recovery Act  
SARA: Superfund Amendments & Reauthorization Act  
STEL: Short Term Exposure Limit  
TLV: Threshold Limit Values  
TSCA: Toxic Substance Control Act  
TWA: Time Weighted Average  
WHMIS: Workplace Hazardous Materials Identification System

**References**

- : 1. ACGIH, Threshold Limit Values and Biological Exposure Indices for 2006.
- 2. International Agency for Research on Cancer Monographs, searched 2007.
- 3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2007 (Chempendium and RTECs).
- 4. Material Safety Data Sheet from manufacturer.
- 5. US EPA Title III List of Lists - January 27, 2005 version.
- 6. California Proposition 65 List - June 1, 2007 version.

**DISCLAIMER OF LIABILITY**

The Information presented herein is supplied as a guide to those who handle or use this product and has been prepared in good faith by technically knowledgeable personnel. It is not intended to be all-inclusive. The manner and conditions of use and handling may involve other and additional considerations. Safe work practices must be employed when working with any materials. It is important that the end user makes a determination regarding the adequacy of the safety procedures employed during the use of this product.

No warranty of any kind is given or implied. Ardex Engineered Cements will not be liable for any damages, losses, injuries or consequential damages which may result from the use or reliance on any information contained herein. This Material Safety Data Sheet is valid for three (3) years.

**Prepared By:**

**Ardex Engineered Cements**

400 Ardex Park Drive

Aliquippa, PA, US

15001

(724) 203-5000

Visit our Website: <http://www.ardex.com>

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: 13/07/2007

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