#### Page 1 of 6

# MATERIAL SAFETY DATA SHEET

# **SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION**

Manufacturer's name and a	ess: Supplier's name and address:	
(HIEX)	Refer to Manufacturer	
Ardex Engineered Ceme 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		
Chemical Name	: N/Ap Chemical Family : N/Ap	
Chemical Formula	: N/Ap Trade Name/Synonyms : ARDEX TWP	
Molecular Weight	: N/Ap Material Use : Portland cement.	
WHMIS Classification	: Class D2A (Materials Causing Other Toxic Effects, Very Toxic Material); Class E (Corrosive Material)	
HMIS Rating	* - Chronic hazard       0 - Minimal       1 - Slight       2 - Moderate       3 - Serious       4 - Severe         Health:       *3       Flammability:       1       Reactivity:       1	9

### SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

			ACGIH TLV		OSHA PEL	
Ingredients	<u>CAS #</u>	<u>% (weight)</u>	<u>TWA</u>	<u>STEL</u>	PEL	<u>STEL</u>
Crystalline silica, quartz	14808-60-7	40.00 - 60.00	0.025 mg/m <sup>3</sup> (respirable)	N/Av	0.1 mg/m <sup>3</sup> (respirable) (final rule limit)	N/Av
Calcium sulfate	7778-18-9	40.00 - 60.00	10 mg/m³ (inhalable)	N/Av	15 mg/m <sup>3</sup> (Total dust); 5 mg/m <sup>3</sup> (respirable)	N/Av
Calcium carbonate	1317-65-3	20.00 - 30.00	10 mg/m³	N/Av	15 mg/m <sup>3</sup> (Total dust); 5 mg/m <sup>3</sup> (respirable)	N/Av
Portland cement	65997-15-1	10.00 - 30.00	10 mg/m³	N/Av	15 mg/m <sup>3</sup> (Total dust); 5 mg/m <sup>3</sup> (respirable)	N/Av
Vinyl acetate copolymer	24937-78-8	10.00 - 30.00	*10 mg/m <sup>3</sup> (inhalable); *3 mg/m <sup>3</sup> (respirable)	N/Av	*15 mg/m <sup>3</sup> (Total dust); *5 mg/m <sup>3</sup> (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**

Grey powder. No odour.

DANGER! Corrosive. Causes eye burns. May cause skin burns. Symptoms may be delayed. May cause respiratory irritation. Contains material which can cause lung damage. Possible cancer hazard - contains material which may cause cancer.

	***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
	Ay cause severe irritation to the nose, throat and respiratory tract. Symptoms may include coughing, hortness of breath, wheezing and reduced lung function.
6	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.
	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, romiting and diarrhea.
Effects of long-term	•
	<ul> <li>Prolonged inhalation may cause adverse lung effects with symptoms including coughing, mucous production and difficulty breathing. Repeated or prolonged inhalation of fine dusts may cause severe scarring of the lungs, a disease called silicosis, and alveolar proteinosis (lower lung disease). Symptoms may include coughing, shortness of breath and eventually severe respiratory impairment.</li> </ul>
Conditions aggravat	ed by overexposure
	: Pre-existing skin, eye and respiratory disorders.
Carcinogenic status	: Cancer hazard. See TOXICOLOGICAL INFORMATION, Section 11.
Additional health ha	
Potential environme	
	: 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	<ul> <li>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.</li> </ul>
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/condition	ns 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 classifi	cation (OSHA 29 CFR 1910.1200)
	: Non-flammable.
Flash point	Not applicable.
Flash point Method	: Not applicable. Auto-ignition temperature : N/Av
Lower flammable lim	
	: Not applicable. : Not applicable.
Oxidizing properties	: None.

Oxidizing properties	:	None.			
Flame Projection Length	:	Not applicable.	Flashback observed	:	Not applicable.
Explosion data: Sensitivity to	me	chanical impact / static dis	charge		

: 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

: Sulphur oxides; calcium oxide.

	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 procee	dures
	<ul> <li>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).</li> <li>US CERCLA Reportable quantity (RQ): None reported.</li> </ul>
	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	V & EXPOSIBE CONTROLS AND PERSONAL PROTECTION

#### **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	<ul> <li>Impervious gloves must be worn when using this product. Advice should be sought from glove suppliers.</li> </ul>
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 consideratio	
	: 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.

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	ECTION 9 - PHYSICAL	AND CHEMICAL PROPI	RTIES	
Physical state	: fine powder (solid)	Appearance	: Grey powder.	
Odour	: No odour.	Odour threshold	: N/Av	
рН	: N/Av			
Boiling point	: N/Av	Specific gravity	: 1.2	
Melting/Freezing point	: N/Av	Coefficient of water/oil di	stribution	
			: N/Av	
Vapour pressure (mmHg @	20° C / 68° F)	Solubility in water	: < 50 g / 1000 cm <sup>3</sup>	
	: N/Av	-	-	
Vapour density (Air = 1)	: N/Av	Evaporation rate (n-Butyl	acetate = 1)	
			: N/Av	
Volatile organic Compounds	s (VOC's)	Volatiles (% by weight)	: N/Av	
	: N/Av			
Particle size	: N/Av	General Info.	: Weight / Gallon: N/Av	v
	SECTION 10 - REACT	IVITY AND STABILITY D	ATA	
Stability and reactivity		mended storage and handling c		t with
etaeling and fourthy		tion and formation of caustic cal		
Hazardous polymerization	: Hazardous polymerisat	ion does not occur.		
Conditions to avoid	: Avoid wet or humid con	ditions. Extreme heat.		
Materials To Avoid And Inco	ompatibility			
	: Acids; Oxidizing agents	; Ammonium salts. Avoid contac	t with aluminum.	
Hazardous decomposition p	products			
	: None known, refer to ha	azardous combustion products ir	Section 5.	
		-		
	SECTION 11 - TOXIC	COLOGICAL INFORMAT	ON	
Toxicological data	SECTION 11 - TOXIC : There is no available	-	ON	e
Toxicological data	SECTION 11 - TOXIC : There is no available	OLOGICAL INFORMAT	ON	e
Toxicological data	SECTION 11 - TOXIC : There is no available below for individual in	OLOGICAL INFORMAT data for the product itself, or ngredient acute toxicity data.	IV for the ingredients. Se	e
<u>Ingredients</u>	SECTION 11 - TOXIC : There is no available below for individual in LC50(4hr)	OLOGICAL INFORMAT	IV for the ingredients. Se	e
Ingredients Crystalline silica, quartz	SECTION 11 - TOXIC : There is no available below for individual in LC50(4hr) inh, rat N/Av	COLOGICAL INFORMAT data for the product itself, or ngredient acute toxicity data.	IV for the ingredients. Se	e
<u>Ingredients</u>	SECTION 11 - TOXIC : There is no available below for individual in LC50(4hr) inh, rat	COLOGICAL INFORMATION data for the product itself, or ngredient acute toxicity data.	IV for the ingredients. Se	e
Ingredients Crystalline silica, quartz	SECTION 11 - TOXIC : There is no available below for individual in LC50(4hr) inh, rat N/Av	COLOGICAL INFORMAT data for the product itself, or ngredient acute toxicity data.	IV for the ingredients. Se	e
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Crystalline silica, quartz Calcium sulfate Calcium carbonate	SECTION 11 - TOXIC : There is no available below for individual in LCso(4hr) inh, rat N/Av N/Av N/Av	COLOGICAL INFORMAT data for the product itself, or ngredient acute toxicity data.	IV for the ingredients. Se LD₅₀ LD₅₀ LD₅₀ LD₅₀ LD₅₀ LD₅₀ LD₅₀ LD₅₀	:e
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Ingredients Crystalline silica, quartz Calcium sulfate Calcium carbonate Portland cement Vinyl acetate copolymer Carcinogenic status Reproductive effects Teratogenicity Mutagenicity Epidemiology	SECTION 11 - TOXIC : There is no available below for individual in LC50(4hr) inh, rat N/Av N/Av N/Av N/Av : This product contains C carcinogenic by IARC ( Select carcinogen). : None known. : None known. : None known. : None known. : None known. : None known. : None known.	COLOGICAL INFORMATION         data for the product itself, or orgredient acute toxicity data.         oral         N/Av         > 3000 mg/kg (rat)         6450 mg/kg (rat)         N/Av         > 1000 mg/kg (rat)         Crystalline silica - Quartz. Crysta         Group 1), ACGIH (Group A2), N	IV for the ingredients. Se	ed as SHA
Ingredients Crystalline silica, quartz Calcium sulfate Calcium carbonate Portland cement Vinyl acetate copolymer Carcinogenic status Reproductive effects Teratogenicity Mutagenicity Epidemiology	SECTION 11 - TOXIC : There is no available below for individual in LC50(4hr) inh, rat N/Av N/Av N/Av N/Av : This product contains C carcinogenic by IARC ( Select carcinogen). : None known. : None known. : None known. : None known. : None known. : None known. : None known.	COLOGICAL INFORMAT         data for the product itself, or ngredient acute toxicity data.         oral         N/Av         > 3000 mg/kg (rat)         6450 mg/kg (rat)         N/Av         > 1000 mg/kg (rat)         Crystalline silica - Quartz. Crysta         Group 1), ACGIH (Group A2), N         cause an allergic skin reaction, in	IV for the ingredients. Se	ed as SHA
Ingredients Crystalline silica, quartz Calcium sulfate Calcium carbonate Portland cement Vinyl acetate copolymer Carcinogenic status Reproductive effects Teratogenicity Mutagenicity Epidemiology Sensitization to material	SECTION 11 - TOXIC : There is no available below for individual in LC50(4hr) inh, rat N/Av N/Av N/Av N/Av : This product contains C carcinogenic by IARC ( Select carcinogen). : None known. : Not available. : Portland Cement may com	COLOGICAL INFORMAT         data for the product itself, or ngredient acute toxicity data.         oral         N/Av         > 3000 mg/kg (rat)         6450 mg/kg (rat)         N/Av         > 1000 mg/kg (rat)         Crystalline silica - Quartz. Crysta         Group 1), ACGIH (Group A2), N         cause an allergic skin reaction, in	IV for the ingredients. Se	ed as SHA
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Ingredients Crystalline silica, quartz Calcium sulfate Calcium carbonate Portland cement Vinyl acetate copolymer Carcinogenic status Reproductive effects Teratogenicity Mutagenicity Epidemiology Sensitization to material	SECTION 11 - TOXIC : There is no available below for individual in LC50(4hr) inh, rat N/Av N/Av N/Av N/Av N/Av : This product contains C carcinogenic by IARC ( Select carcinogen). : None known. : Not available. : Portland Cement may content of the formation of t	OLOGICAL INFORMATION         data for the product itself, or orgredient acute toxicity data.         oral         N/Av         > 3000 mg/kg (rat)         6450 mg/kg (rat)         N/Av         > 1000 mg/kg (rat)         Crystalline silica - Quartz. Crysta         Group 1), ACGIH (Group A2), N         cause an allergic skin reaction, in f chromium.         corrosive.	IV for the ingredients. Se	ed as SHA

**Environmental effects** : The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.

### Important environmental characteristics

#### ARDEX TWP

MSDS Preparation Date (dd/mm/yyyy): 14/07/2007

Ecotoxicological	: No data is available on the product itself.
	SECTION 13 - DISPOSAL CONSIDERATIONS
Handling for Disposal	: Handle waste according to recommendations in Section 7.
Methods of Disposal	: Dispose in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules.
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.

Regulatory Information	UN Number	Shipping Name	Class	Packing Group	Label
TDG	None	Not regulated.	not regulated	none	$\bigotimes$
TDG Additional information	None.				
49CFR/DOT	None	Not regulated.	not regulated	none	$\oslash$
49CFR/DOT Additional information	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) information: All ingredients listed appear on the Domestic Substances List (DSL).

#### **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: This product contains a chemical known to the State of California to cause cancer. This product contains: Crystalline silica, quartz.

# **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
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 herin 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 intendedd 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 inforamtion 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

MSDS Preparation Date (dd/mm/yyyy)

: 14/07/2007

#### **END OF DOCUMENT**