



ARDEX Engineered Cements.  
400 Ardex Park Drive.  
Aliquippa, PA USA  
15001

ARDEX 8+9 (PART 8 – LIQUID)

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MSDS Preparation Date (mm/dd/yyyy): 10/31/2012

## MATERIAL SAFETY DATA SHEET

### SECTION 1 - IDENTIFICATION

**Product identifier** : **ARDEX 8+9 (Part 8 – Liquid)**

**Product Code(s)** : ARDEX 8

**Product Use** : Waterproofing and Crack Isolation Compound, when mixed with ARDEX 9 (powder)

**Chemical Family** : Mixture.

**Manufacturer/Supplier Identification**

**Information Telephone #**

: (724) 203-8499  
Visit our Website: <http://www.ardexamericas.com>



**ARDEX Engineered Cements**

400 Ardex Park Drive  
Aliquippa, PA, U.S.A.  
15001

**24 Hr. Emergency Tel #**

: CHEM-TEL: (800) 255-3924 (Within Continental U.S.);  
or  
CHEM-TEL: +1 (813) 248-0585  
(Outside U.S., please call collect).

### SECTION 2 - HAZARDS IDENTIFICATION

**Classification** : WHMIS classification:  
This product is not a WHMIS controlled product in Canada. It does not meet any of the criteria for a controlled product provided in Part IV of the Controlled Products Regulations (CPR).  
  
OSHA Classification: This product is considered to be a non-hazardous substance under OSHA standard 29 CFR 1910.1200.

**Emergency Overview** : Light-pink-coloured liquid. Aromatic odour.  
Caution. May cause respiratory irritation. May cause gastrointestinal irritation.  
Possible transient eye irritation. May cause mild skin irritation.

### POTENTIAL HEALTH EFFECTS:

**Signs and symptoms of short-term (acute) exposure**

*Inhalation* : May cause mild transient irritation. May cause coughing and breathing difficulties.

*Skin* : May cause mild skin irritation.

*Eyes* : May cause mild transient irritation. Symptoms may include stinging and tearing.

*Ingestion* : May cause irritation of mouth, throat, and digestive tract if ingested in large amounts.

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

: Prolonged or repeated skin contact may cause skin drying and irritation.

**Carcinogenic status** : See TOXICOLOGICAL INFORMATION, Section 11.

**Additional health hazards** : See TOXICOLOGICAL INFORMATION, Section 11.

**Potential environmental effects**

: See ECOLOGICAL INFORMATION, Section 12.

### SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredients</u>	<u>CAS #</u>	<u>Wt. %</u>
No hazardous ingredients	N/Av	N/Av



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#### SECTION 4 - FIRST AID MEASURES

- Inhalation** : Immediately move person to fresh air. If breathing has stopped, give artificial respiration. Obtain medical attention if symptoms develop and persist.
- Skin contact** : Remove/Take off immediately all contaminated clothing. Wash affected areas with soap and water. If irritation or symptoms develop, seek medical attention. Wash contaminated clothing before re-use.
- Eye contact** : Immediately flush eye(s) with plenty of water. If irritation persists, seek prompt medical attention.
- Ingestion** : Do not induce vomiting. Consult a physician. Never give anything by mouth to an unconscious person.
- 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.

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

- : Combustible Liquid Class III B.

**Oxidizing properties**

- : None known.

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

- : Not expected to be sensitive to mechanical impact or static discharge.

**Suitable extinguishing media** : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Do not use water jet, as this may spread burning material.

**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.

**Hazardous combustion products**

- : Carbon dioxide; Carbon monoxide; Acrylic monomer.; Nitrogen oxides

**NFPA Rating**

- |             |                 |                |                  |            |
|-------------|-----------------|----------------|------------------|------------|
| 0 - Minimal | 1 - Slight      | 2 - Moderate   | 3 - Serious      | 4 - Severe |
| Health: 1   | Flammability: 1 | Instability: 0 | Special Hazards: | None       |

#### SECTION 6 - ACCIDENTAL RELEASE MEASURES

- Personal precautions** : All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Keep all other personnel upwind and away from the spill/release. Restrict access to area until completion of clean-up. For personal protection see section 8.
- Environmental precautions** : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces.
- Spill response/cleanup** : Ventilate area of release. Remove all sources of ignition. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Notify the appropriate authorities as required.
- Prohibited materials** : None known.
- 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: 1-800-424-8802).  
US CERCLA Reportable quantity (RQ): None reportable.



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**SECTION 7 - HANDLING AND STORAGE**

- Safe Handling procedures** : Use in a well-ventilated area. Wear suitable protective equipment during handling. Avoid breathing vapours. Avoid contact with skin, eyes and clothing. Keep away from extreme heat and flame. Avoid contact with incompatible materials. Wash thoroughly after handling.
- Storage requirements** : Store in a cool, dry, well-ventilated area. Keep away from direct sunlight. Keep away from incompatibles. Inspect periodically for damage or leaks.
- Incompatible materials** : Oxidizing agents.
- Special packaging materials** : Always keep in containers made of the same materials as the supply container.

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

**Exposure Limits**

<u>Ingredients</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
No hazardous ingredients	N/Av	N/Av	N/Av	N/Av

**Ventilation and engineering measures**

- : Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.

**Respiratory protection**

- : None required under normal conditions. If the TLV is exceeded, a NIOSH/MSHA-approved respirator is advised.

**Skin protection**

- : Gloves impervious to the material are recommended. Advice should be sought from glove suppliers.

**Eye / face protection**

- : Safety glasses with side-shields or chemical splash goggles.

**Other protective equipment**

- : Depending on conditions of use, an impervious apron should be worn. An eyewash station and safety shower should be made available in the immediate working area.

**General hygiene considerations**

- : Avoid breathing vapors, fumes or dust. Avoid contact with skin, eyes and clothing. Do not eat, drink, smoke or use cosmetics while working with this product. Remove soiled clothing and wash it thoroughly before reuse. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical state</b>	: Liquid	<b>Appearance</b>	: Light pink coloured
<b>Odour</b>	: Aromatic	<b>Odour threshold</b>	: N/Av
<b>pH</b>	: 6.3 – 6.6		
<b>Boiling point</b>	: 100°C (212°F)	<b>Specific gravity</b>	: 1.02 – 1.03
<b>Melting/Freezing point</b>	: N/Av	<b>Coefficient of water/oil distribution</b>	: N/Av
<b>Vapour pressure (mmHg @ 20° C / 68° F)</b>	: N/Av	<b>Solubility in water</b>	: miscible
<b>Vapour density (Air = 1)</b>	: N/Av	<b>Evaporation rate (n-Butyl acetate = 1)</b>	: N/Av
<b>Volatile organic Compounds (VOC's)</b>	: 0 g/L	<b>Volatiles (% by weight)</b>	: 42- 44%
<b>Flash point</b>	: > 93°C (> 199.4°F)		
<b>Flash point Method</b>	: Pensky Martens Closed Cup	<b>Auto-ignition temperature</b>	: N/Av
<b>Lower flammable limit (% by vol.)</b>	: N/Av	<b>Upper flammable limit (% by vol.)</b>	: N/Av



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**Flame Projection Length** : N/Ap **Flashback observed** : N/Ap  
**Viscosity** : N/Av  
**Absolute pressure of container** : N/Ap

**Section 10: Stability And Reactivity**

**Stability and reactivity** : Stable under the recommended storage and handling conditions prescribed.  
**Hazardous polymerization** : Hazardous polymerization does not occur.  
**Conditions to avoid** : Avoid heat and open flame. Keep away from direct sunlight. Do not use in areas without adequate ventilation.

**Materials To Avoid And Incompatibility**

: See Section 7 (Handling and Storage) for further details.

**Hazardous decomposition products**

: Refer to Section 5 for additional 'Hazardous combustion products'.

**SECTION 11 - TOXICOLOGICAL INFORMATION**

**Target organs** : Eyes, skin, respiratory system and digestive system.  
**Routes of exposure** : *Inhalation:* YES *Skin Absorption:* NO *Skin & Eyes:* YES *Ingestion:* YES  
**Toxicological data** : There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

<u>Ingredients</u>	<u>LC<sub>50</sub>(4hr)</u>	<u>LD<sub>50</sub></u>	
	<u>inh, rat</u>	<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
No hazardous ingredients	N/Ap	N/Ap	N/Ap

**Carcinogenic status** : No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.  
**Reproductive effects** : None known.  
**Teratogenicity** : Not expected to be a teratogen.  
**Mutagenicity** : None known.  
**Epidemiology** : Not known.  
**Sensitization to material** : None known.  
**Synergistic materials** : None known.  
**Irritancy** : Mild.  
**other important hazards** : None known.

**Conditions aggravated by overexposure**

: Pre-existing skin, eye and respiratory disorders.

**SECTION 12 - ECOLOGICAL INFORMATION**

**Ecotoxicity** : No data is available on the product itself. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.

**Mobility** : No information available.

**Persistence** : No information available.

**Bioaccumulation potential** : No information available.

**Other Adverse Environmental effects**

: No information available.

**SECTION 13 - DISPOSAL CONSIDERATIONS**

**Handling for Disposal** : Handle waste according to recommendations in Section 7.

**Methods of Disposal** : Dispose of in accordance with federal, provincial and local hazardous waste laws.



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**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.

**SECTION 14: TRANSPORT 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**

**US Federal Information:**

TSCA information: All ingredients are listed on the TSCA inventory.

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

SARA TITLE III: Sec. 302, Extremely Hazardous Substances, 40 CFR 355: No Extremely Hazardous Substances are present in this material.

SARA TITLE III: Sec. 311 and 312, MSDS Requirements, 40 CFR 370 Hazard Classes: None. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds for the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

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 or reproductive harm.

Other U.S. State "Right to Know" Lists: None known or reported by the manufacturer.

**International Information:**

Canadian Environmental Protection Act (CEPA): All components of this product are on the Canadian DSL list.

**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.**

**SECTION 16 - OTHER INFORMATION**

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

**Legend**

: ACGIH: American Conference of Governmental Industrial Hygienists  
CAS: Chemical Abstract Services  
CPR: Controlled Products Regulation



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DSL: Domestic Substances List  
IARC: International Agency for Research on Cancer  
Inh: Inhalation  
LC: Lethal Concentration  
LD: Lethal Dose  
N/Ap: Not Applicable  
N/Av: Not Available  
NIOSH: National Institute of Occupational Safety and Health  
NTP: National Toxicology Program  
OSHA: Occupational Safety and Health Administration  
PEL: Permissible exposure limit  
RTECS: Registry of Toxic Effects of Chemical Substances  
STEL: Short Term Exposure Limit  
TDG: Canadian Transportation of Dangerous Goods Act & Regulations  
TLV: Threshold Limit Values  
TWA: Time Weighted Average  
TSCA: Toxic Substance Control Act  
WHMIS: Workplace Hazardous Materials Identification System

**References**

- : 1. ACGIH, Threshold Limit Values and Biological Exposure Indices for 2012.  
2. International Agency for Research on Cancer Monographs, searched 2012.  
3. Canadian Centre for Occupational Health and Safety, CCIInfoWeb databases, 2012 (Chempendium and RTECs).  
4. Material Safety Data Sheet from manufacturer.  
5. US EPA Title III List of Lists, July 2012 version.  
6. California Proposition 65 List – July 20, 2012 version.

**Prepared by:**

ARDEX Engineered Cements  
400 Ardex Park Drive  
Aliquippa, PA, U.S.A., 15001  
Telephone: 724-203-8499  
Please direct all enquiries to ARDEX Engineered Cements.

**DISCLAIMER OF LIABILITY**

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