

Material Safety Data Sheet

Material Name: ARDEX MC PLUS SEALER Resin (Part A)

MSDS ID: WWHC-010

*** Section 1 - Chemical Product and Company Identification ***

Product Use: Epoxy Resin

Manufacturer Information

ARDEX Engineered Cements
400 Ardex Park Drive
Aliquippa, PA 15001

Phone: 724-203-8499

Emergency # CHEM-TEL 800-255-3924
1-813-248-0585 (Call Collect)

*** Section 2 - Hazards Identification ***

Emergency Overview

Product is a dark green liquid with a characteristic odor. Causes skin and eye irritation. May cause allergic reactions.

Hazard Statements

Avoid contact with eyes, skin and clothing. Avoid breathing vapors or dust. Avoid prolonged contact with skin. Wash thoroughly after handling. Keep container tightly closed. Use only with adequate ventilation.

Potential Health Effects: Eyes

Causes irritation. Symptoms may include redness, itching or pain.

Potential Health Effects: Skin

Causes irritation. Symptoms may include redness and itching. Contact may cause an allergic skin reaction.

Potential Health Effects: Ingestion

May cause stomach pain with nausea and vomiting.

Potential Health Effects: Inhalation

Inhalation of vapors may irritate the respiratory system. Symptoms may include coughing and shortness of breath.

Potential Environmental Effects

Product is toxic to the aquatic environment and is expected to have long-lasting effects.

HMIS Ratings: Health: 2* **Fire:** 1 **Reactivity:** 0 **Pers. Prot.:** gloves, safety glasses

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

WHMIS Classification: D2A, D2B, E

*** Section 3 - Composition / Information on Ingredients ***

CAS #	Component	Percent
25068-38-6	Bisphenol A - Epichlorohydrin polymer	30-60
55492-52-9	Phenol, 2,2'-methylenebis-, polymer with (chloromethyl)oxirane	10-30
68609-97-2	Alkyl (C12-14) glycidyl ether	10-30
1317-65-3	Calcium Carbonate	10-30
28064-14-4	Phenol, polymer with formaldehyde, glycidyl ether	0.1-1
Mixture	Additive pack	0.1-1

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14808-60-7	Quartz	0.1-1
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Component Information/Information on Non-Hazardous Components

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication). This product is a controlled product under the criteria specified in the Canadian Workplace Hazardous Materials Information System (WHMIS).

Contains crystalline silica, or quartz, as a naturally occurring part of calcium carbonate.

* * * Section 4 - First Aid Measures * * *

First Aid: Eyes

Immediately flush eyes with large amounts of water, including under the eyelids, for 15-30 minutes. Obtain medical attention if irritation develops or persists.

First Aid: Skin

In case of contact, immediately flush skin with plenty of water. Wash with mild soap if needed to completely remove material. Obtain medical attention if irritation develops or persists.

First Aid: Ingestion

Call a physician if symptoms occur or if large amounts of this material are swallowed. Do not induce vomiting. Never give anything by mouth to an unconscious person.

First Aid: Inhalation

If inhaled, immediately remove the affected person to fresh air. If not breathing, have qualified personnel give artificial respiration and seek medical attention immediately.

* * * Section 5 - Fire Fighting Measures * * *

General Fire Hazards

See Section 9 for Flammability Properties.

Product is not flammable.

Hazardous Combustion Products

Under conditions of fire, material may decompose and emit carbon monoxide, carbon dioxide, and/or low molecular weight hydrocarbons.

Extinguishing Media

Use extinguishing media appropriate for surrounding materials.

Fire Fighting Equipment/Instructions

Firefighters should wear full-face, self contained breathing apparatus and impervious protective clothing.

Firefighters should avoid inhaling any combustion products.

NFPA Ratings: Health: 2 Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

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* * * Section 6 - Accidental Release Measures * * *

Personal Precautions

Avoid contact with eyes, skin and clothing. Avoid breathing vapors or dust. Wash thoroughly after handling. Keep container tightly closed.

Containment Procedures

Contain spill with inert material. Block any potential routes to water systems.

Environmental Precautions

Product is toxic to the aquatic environment. Prevent discharge into sewers or waterways.

Clean-Up Procedures

Be aware that spilled material creates a slipping hazard. Ventilate the contaminated area. Collect spilled material. Place in properly labeled closed container. Thoroughly wash the area with water after a spill or leak clean-up. Do not allow the spilled product to enter public drainage system or open water courses. Wash clothing and equipment after handling.

Evacuation Procedures

Isolate area. Keep unnecessary personnel away.

Special Procedures

None known.

* * * Section 7 - Handling and Storage * * *

Handling Procedures

Observe good hygiene standards. Do not eat, drink or smoke in the work area. Wash thoroughly after handling. Avoid contact with skin and eyes. Avoid repeated or prolonged skin contact. Avoid breathing vapors or mists of this product. Wear protective clothing to prevent skin contact. Promptly remove any clothing that becomes contaminated. Clean contaminated clothing before reuse. Keep container tightly closed. Use only with adequate ventilation.

Storage Procedures

Store in a cool, dry, well-ventilated area. Store away from heat and open flame. Avoid storing in direct sunlight. Store in original container. Keep tightly closed when not in use. Do not reuse empty container without commercial cleaning or reconditioning.

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* * * Section 8 - Exposure Controls / Personal Protection * * *

A: Component Exposure Limits

Consult local authorities for acceptable exposure limits.

Calcium Carbonate (1317-65-3)

OSHA:	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)
NIOSH:	10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)
Alberta:	10 mg/m3 TWA
British Columbia:	10 mg/m3 TWA (total dust); 3 mg/m3 TWA (respirable fraction) 20 mg/m3 STEL
New Brunswick:	10 mg/m3 TWA (particulate matter containing no asbestos and < 1% crystalline silica)
NW Territories:	5 mg/m3 TWA (respirable mass); 10 mg/m3 TWA (total mass)
Nunavut:	5 mg/m3 TWA (respirable mass); 10 mg/m3 TWA (total mass)
Quebec:	10 mg/m3 TWAEV (total dust, containing no asbestos and less than 1% crystalline silica)
Saskatchewan:	10 mg/m3 TWA; 20 mg/m3 STEL
Yukon:	30 mppcf TWA; 10 mg/m3 TWA 20 mg/m3 STEL

Engineering Controls

Ventilation should effectively remove and prevent buildup of any vapor or mist generated from the handling of this product.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Wear tight fitting safety goggles. A face shield is recommended if splashing is possible.

Personal Protective Equipment: Skin

Wear chemical resistant protective clothing and impervious gloves. Materials such as nitrile rubber or Viton (fluorocarbon rubber) are recommended.

Personal Protective Equipment: Respiratory

Under normal conditions of use, respiratory protection should not be necessary. If work process generates excessive quantities of vapor or dust, or exposures in excess of any PEL, wear an appropriate organic vapor respirator.

Personal Protective Equipment: General

Eye wash fountain and emergency showers are recommended in the workplace. Use good industrial hygiene practices in handling this material.

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*** Section 9 - Physical & Chemical Properties ***

Appearance:	Red or green liquid	Color:	Dark green
Odor:	Characteristic	Physical State:	Liquid
pH:	Not available	Vapor Pressure:	Not available
Vapor Density:	Not available	Boiling Point:	>392°F (>200°C)
Melting Point:	Not available	Solubility in Water:	Immiscible
Specific Gravity:	>1	Flash Point:	>212°F (>100°C)
Flash Point Method:	Not available	Lower Flammability Limit:	Not available
Auto Ignition:	Not available	Upper Flammability Limit:	Not available
Decomposition Temperature:	Not available	Evaporation Rate:	Not available
Viscosity:	Not available	Percent Volatile:	Not available
VOC:	0 g/L	Octanol/H₂O Coeff.:	Not available
Molecular Weight:	Mixture		

*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability

Stable under normal conditions of use.

Conditions to Avoid

Avoid prolonged exposure to heat.

Incompatibility

May be incompatible with strong oxidizing agents.

Hazardous Decomposition

Under conditions of fire, material may decompose and emit carbon monoxide, carbon dioxide, and/or low molecular weight hydrocarbons.

Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

*** Section 11 - Toxicological Information ***

Acute Dose Effects

A: General Product Information

Causes skin and eye irritation. Vapors may cause respiratory irritation.

B: Component Analysis - LD50/LC50

Bisphenol A - Epichlorohydrin polymer (25068-38-6)

Oral LD50 Rat 11400 mg/kg

Alkyl (C12-14) glycidyl ether (68609-97-2)

Oral LD50 Rat 17100 mg/kg

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Repeated Dose Effects

Repeated exposure may cause an allergic skin reaction.

Irritation

Causes skin and eye irritation.

Carcinogenicity

A: General Product Information

No information is available for the product as a tested mixture. Contains a small amount of crystalline silica, or quartz, as a naturally occurring part of calcium carbonate.

B: Component Carcinogenicity

Quartz (14808-60-7)

ACGIH: A2 - Suspected Human Carcinogen

NIOSH: potential occupational carcinogen

NTP: Known Human Carcinogen (Select Carcinogen)

IARC: Monograph 68 [1997] (listed under Crystalline silica inhaled in the form of quartz or cristobalite from occupational sources) (Group 1 (carcinogenic to humans))

Sensitization

Contains multiple components which are known to cause sensitization reactions.

Target Organ Effects

Immune system

*** Section 12 - Ecological Information ***

Ecotoxicity

A: General Product Information

Product is toxic to the aquatic environment and is expected to have long lasting effects.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

No ecotoxicity data are available for this product's components.

Persistence & Degradability

Product is not expected to rapidly degrade.

*** Section 13 - Disposal Considerations ***

US EPA Waste Number & Descriptions

A: General Product Information

Material, if discarded, is not expected to be a characteristic hazardous waste under RCRA. You must test your waste using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.

B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

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Disposal Instructions

Waste must be handled in accordance with all federal, state, provincial, and local regulations. In case of large spills, follow all facility Emergency Response Procedures. Do not allow this material to drain into sewers/water supplies.

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

*** Section 14 - Transportation Information ***

US DOT Information

Shipping Name: Environmentally hazardous substances, liquid, n.o.s. (Contains: Bisphenol A - Epichlorohydrin polymer , Phenol, 2,2'-methylenebis-, polymer with (chloromethyl)oxirane)

UN/NA #: UN3082 **Hazard Class:** 9 **Packing Group:** III

Required Label(s): 9

TDG Information

Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (Contains: Bisphenol A - Epichlorohydrin polymer , Phenol, 2,2'-methylenebis-, polymer with (chloromethyl)oxirane)

UN/NA #: UN3082 **Hazard Class:** 9 **Packing Group:** III

*** Section 15 - Regulatory Information ***

US Federal Regulations

A: General Product Information

No additional information is available.

B: Component Analysis

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

Acute Health: Yes **Chronic Health:** Yes **Fire:** No **Pressure:** No **Reactive:** No

C: Component Marine Pollutants

No information is available.

State Regulations

A: General Product Information

Other state regulations may apply.

B: Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
Calcium Carbonate	1317-65-3	No	Yes	Yes	Yes	Yes	Yes
Quartz	14808-60-7	No	Yes	Yes	Yes	Yes	Yes

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The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause cancer.

Canadian WHMIS Information

A: General Product Information

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

B: Component Analysis - WHMIS IDL

No components are listed in the WHMIS IDL

Additional Regulatory Information

A: General Product Information

No additional information is available.

B: Component Analysis – Inventory

Component	CAS #	TSCA	CAN	EEC
Bisphenol A - Epichlorohydrin polymer	25068-38-6	Yes	DSL	No
Calcium Carbonate	1317-65-3	Yes	NDSL	EINECS
Phenol, 2,2'-methylenebis-, polymer with (chloromethyl)oxirane	55492-52-9	Yes	DSL	No
Alkyl (C12-14) glycidyl ether	68609-97-2	Yes	DSL	EINECS
Phenol, polymer with formaldehyde, glycidyl ether	28064-14-4	Yes	DSL	No
Quartz	14808-60-7	Yes	DSL	EINECS

*** Section 16 - Other Information ***

Other Information

No additional information is available.

MSDS History

New MSDS

Key/Legend

ACGIH = American Conference of Governmental Industrial Hygienists; CAS = Chemical Abstracts Service; CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act; CFR = Code of Federal Regulations; CPR = Controlled Products Regulations; DOT = Department of Transportation; DSL = Domestic Substances List; EINECS = European Inventory of Existing Commercial Chemical Substances; EPA = Environmental Protection Agency; IARC = International Agency for Research on Cancer; IATA = International Air Transport Association; mg/Kg = milligrams per Kilogram; mg/L = milligrams per Liter; mg/m3 = milligrams per Cubic Meter; MSHA = Mine Safety and Health Administration; NA = Not Applicable or Not Available; NIOSH = National Institute for Occupational Safety and Health; NJTSR = New Jersey Trade Secret Registry; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; SARA = Superfund Amendments and Reauthorization Act; TDG = Transport Dangerous Goods; TSCA = Toxic Substances Control Act; WHMIS = Workplace Hazardous Materials Information System.

End of Sheet WWHC-006