SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION

Manufacturer’s name and address: ARDEX Americas
400 Ardex Park Dr.
Aliquippa, PA 15001 USA

Supplier’s name and address: Refer to Manufacturer

Information Telephone No.: 1-(888)-512-7339 or 1-(724) 203-5000
Website Address: http://www.ardexamericas.com
24 Hr Emergency Telephone #: CHEM-TEL: 1-800-255-3924 OR 1-813-248-0585 (call collect)
Product Identifier: ARDEX MC™ RAPID Resin (Part A)
Product Code: 70013741
Chemical Family: Mixture
Trade Name/Synonyms: ARDEX MC RAPID Resin
Material Use: One-Coat Moisture Control System for Concrete to Receive ARDEX Products
Uses Advised Against: No information available.

SECTION 2 – HAZARDS IDENTIFICATION

GHS Classification per 29 CFR 1910.1200 (OSHA HCS 2012) and HPR (WHMIS 2015):
- Skin Sensitizer Category 1
- Eye Irritant Category 2A
- Skin Irritant Category 2

GHS Pictograms: 

Signal Word: Warning

Hazard Statements: Causes serious eye irritation.
May cause an allergic skin reaction.
Causes skin irritation.

Precautionary Statements: Do not get in eyes, on skin, or on clothing. Avoid breathing vapors or dust. Use in a well-ventilated area. Wash hands and exposed skin thoroughly after handling. Wear protective gloves and eye protection. Keep container tightly closed. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Store in a well-ventilated place. Dispose of contents / container in accordance with federal, state, and local laws. Do not allow product to enter drains.

Hazards Not Otherwise Identified: None
Unknown Acute Toxicity Content: < 30% of this product consists of ingredients with unknown acute toxicity.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS #</th>
<th>% (by weight)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polymer: Bisphenol F + epichlorohydrin epoxy resin</td>
<td>55492-52-9</td>
<td>10.00 – 30.00</td>
</tr>
<tr>
<td>Polymer: Bisphenol A + epichlorohydrin epoxy resin</td>
<td>25068-38-6</td>
<td>10.00 – 30.00</td>
</tr>
</tbody>
</table>
SECTION 4 – FIRST AID MEASURES

General : Get medical attention if you feel unwell.
Inhalation : Remove person to fresh air and keep at rest in a position comfortable for breathing.
Get medical attention.
Skin contact : Remove contaminated clothing. Flush affected skin with water. If irritation persists:
seek medical attention/advice.
Eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present
and easy to do. Continue rinsing. Get medical advice/attention.
Ingestion : Rinse mouth. Do NOT induce vomiting. Get medical advice/attention if you feel
unwell.
Notes for Physician : Treat symptomatically.
Signs and symptoms of short-term (acute) exposure
Inhalation : Inhalation of vapors may cause mild irritation of the respiratory system. Symptoms may
include coughing and shortness of breath.
Skin : Causes irritation. Symptoms may include redness and itching. Prolonged or repeated
skin contact may cause an allergic skin reaction.
Eyes : Causes irritation. Symptoms may include redness, itching or pain.
Ingestion : May cause stomach pain with nausea and vomiting.
Effects of long-term (chronic) exposure
: Prolonged inhalation may cause adverse lung effects with symptoms including coughing
and shortness of breath. Some individuals may experience a sensitization reaction of
the skin after an initial exposure. Subsequent exposures may cause a hypersensitive
skin reaction (rash, swelling).
Indication of need for immediate medical attention or special treatment
In case of accident or illness, seek medical advice immediately (show label or SDS
if possible).

SECTION 5 – FIRE FIGHTING MEASURES

Suitable extinguishing media : Carbon dioxide, dry chemical powder, foam, water mist/fog.
Unsuitable extinguishing media : Water jet may spread the flames.
Hazardous combustion products : Carbon oxides, nitrogen oxides, and/or low molecular weight hydrocarbons.
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.
: Not flammable

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions : 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.
Protective equipment : Refer to Section 8 on this Safety Data Sheet, EXPOSURE CONTROLS /
PERSONAL PROTECTION, for additional information on acceptable personal
protective equipment.
Emergency 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). Outside of the U.S. call the emergency number listed in Section 1.

US CERCLA Reportable quantity (RQ): None reported.

Spill response / clean-up: Ventilate area of release. Stop spill or leak at source if safely possible. Contain product with inert absorbent material, preventing it from entering sewer lines or waterways. Gather up spilled material and place in suitable container for later disposal. Notify the appropriate authorities as required.

Environmental precautions: Do not allow product to enter waterways. Do not allow material to contaminate ground water system.

Disposal of spilled material: See Section 13.

SECTION 7 – HANDLING AND STORAGE

Safe 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 requirements: 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.

Incompatible materials: Strong 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: No exposure limits have been established for the product. Below are exposure limits for the ingredients in the product.

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS #</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polymer: Bisphenol F + epichlorohydrin epoxy resin</td>
<td>55492-52-9</td>
<td>N/Av N/Av N/Av</td>
<td>N/Av N/Av</td>
</tr>
<tr>
<td>Polymer: Bisphenol A + epichlorohydrin epoxy resin</td>
<td>25068-38-6</td>
<td>N/Av N/Av N/Av</td>
<td>N/Av N/Av</td>
</tr>
<tr>
<td>Alkyl (C12-14) glycidyl ether</td>
<td>68609-97-2</td>
<td>N/Av N/Av N/Av</td>
<td>N/Av N/Av</td>
</tr>
<tr>
<td>1-Methyl-2-pyrrolidone</td>
<td>872-50-4</td>
<td>N/Av N/Av 10 ppm (USA WEEL)</td>
<td>N/Av N/Av</td>
</tr>
</tbody>
</table>

Engineering measures: Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits. Ventilation should effectively remove and prevent buildup of any vapor or mist generated from the handling of this product.

Eye / face protection: Chemical goggles or safety glasses must be worn when using this product. A face shield is recommended if splashing is possible.

Skin protection: Use protective clothing that provides comprehensive protection against the chemicals listed in Section 3. For hands, use impervious gloves. Materials such as rubber, nitrile rubber or Viton (fluorocarbon rubber) are recommended.

Body protection: Where extensive exposure to product is possible, use resistant coveralls, apron and boots to prevent contact.

Respiratory protection: If work process generates excessive quantities of vapor or dust, or exposures in excess of any PEL, wear an appropriate organic vapor respirator.

Site safety equipment: An eyewash station and safety shower should be made available in the immediate working area.
### General hygiene precautions

Avoid contact with eyes, skin and clothing. Do not breathe vapors/dust. Do not eat, drink or smoke when using this product. Clean all equipment and clothing at end of each work shift.

### SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Metallic black</td>
</tr>
<tr>
<td>Odor</td>
<td>Characteristic</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>N/Av</td>
</tr>
<tr>
<td>pH</td>
<td>N/Av</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>1.7 – 1.8</td>
</tr>
<tr>
<td>Boiling point</td>
<td>&gt;392°F (&gt;200°C)</td>
</tr>
<tr>
<td>Coefficient of water/oil distribution</td>
<td>N/Av</td>
</tr>
<tr>
<td>Melting/Freezing point</td>
<td>N/Av</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>Immiscible</td>
</tr>
<tr>
<td>Vapor pressure (mm Hg @ 20°C / 68°F)</td>
<td>N/Av</td>
</tr>
<tr>
<td>Evaporation rate (n-Butyl acetate = 1)</td>
<td>N/Av</td>
</tr>
<tr>
<td>Vapor density (Air = 1)</td>
<td>N/Av</td>
</tr>
<tr>
<td>Volatiles (% by weight)</td>
<td>N/Av</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>N/Av</td>
</tr>
<tr>
<td>Flammable Classification</td>
<td>Not Flammable</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt;212°F (100°C)</td>
</tr>
<tr>
<td>Lower flammable limit (% by vol)</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash point method</td>
<td>Setaflash closed</td>
</tr>
<tr>
<td>Upper flammable limit (% by vol)</td>
<td>Not available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>N/Av</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>None</td>
</tr>
<tr>
<td>Flame projection length</td>
<td>Not available</td>
</tr>
<tr>
<td>Flashback observed</td>
<td>Not available</td>
</tr>
<tr>
<td>Explosion data</td>
<td>Sensitivity to mechanical impact / static discharge</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available</td>
</tr>
</tbody>
</table>

### SECTION 10 – REACTIVITY AND STABILITY INFORMATION

- **Reactivity**:
  - Product reacts with amines to form polymers. Heat is evolved by this reaction.

- **Stability and reactivity**: Stable under the recommended storage and handling conditions prescribed.

- **Hazardous polymerization**: Hazardous polymerization does not occur.

- **Conditions to avoid**: Avoid prolonged exposure to heat.

- **Materials to avoid and incompatibility**: Oxidizing agents.

- **Hazardous decomposition products**: None known, refer to hazardous combustion products in Section 5.

### SECTION 11 – TOXICOLOGICAL INFORMATION

**Hazardous Polymerization**

- **Hazardous polymerization does not occur.**

- **Conditions to avoid**: Avoid prolonged exposure to heat.

- **Materials to avoid and incompatibility**: Oxidizing agents.

**Hazardous decomposition products**: None known, refer to hazardous combustion products in Section 5.

**Calculated Acute Toxicity Estimates for the Product**

- **Inhalation**: Not Available
- **Oral**: 10,000 mg/kg
- **Dermal**: 8,000 mg/kg

**Toxicological data**

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>LC50 (4 hr)</th>
<th>LD50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polymer: Bisphenol F + epichlorohydryn epoxy resin</td>
<td>N/Av</td>
<td>N/Av</td>
</tr>
<tr>
<td>Oral, rat</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dermal, rabbit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Polymer: Bisphenol A + epichlorohydryn epoxy resin</td>
<td>N/Av</td>
<td>&gt; 23,500</td>
</tr>
<tr>
<td>Alkyl (C12-14) glycidyl ether</td>
<td>N/Av</td>
<td>11400 mg/kg</td>
</tr>
<tr>
<td>1-Methyl-2-pyrrolidone</td>
<td>3.1 mg/L</td>
<td>3598 mg/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2000 mg/kg</td>
</tr>
</tbody>
</table>

**Skin corrosion/irritation**: Causes skin irritation.

**Serious eye damage/eye irritation**: Causes serious eye irritation.
Respiratory or skin sensitization: Contains a component which is known to cause skin sensitization reactions. Does not contain known respiratory sensitizers.

Germ cell mutagenicity: None known.

Carcinogenic status: No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

Reproductive toxicity: Contains N-methylpyrrolidone, a known developmental toxin.

Specific Target Organ Toxicity, Single Exposure: None known.

Specific Target Organ Toxicity, Repeated Exposure: None known.

Aspiration hazard: None known.

Other important hazards: See Section 2 for additional information.

SECTION 12 – ECOLOGICAL INFORMATION

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: N/A

Ecotoxicological: No data is available on the product itself. Information on components is listed below.

1-Methyl-2-pyrrolidone (872-50-4)

<table>
<thead>
<tr>
<th>Test &amp; Species</th>
<th>Results &amp; Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>96 Hr LC50 Lepomis macrochirus</td>
<td>832 mg/L [static]</td>
</tr>
<tr>
<td>96 Hr LC50 Leuciscus idus</td>
<td>4000 mg/L [static]</td>
</tr>
<tr>
<td>96 Hr LC50 Pimephales promelas</td>
<td>1072 mg/L [static]</td>
</tr>
<tr>
<td>96 Hr LC50 Poecilia reticulata</td>
<td>1400 mg/L [static]</td>
</tr>
<tr>
<td>72 Hr EC50 Desmodesmus subspicatus</td>
<td>&gt;500 mg/L</td>
</tr>
<tr>
<td>48 Hr EC50 Daphnia magna</td>
<td>4897 mg/L</td>
</tr>
</tbody>
</table>

Persistence and degradability: Product is not expected to rapidly degrade.

Bioaccumulative potential: Not Available.

Mobility in the soil: Not Available.

PBT and vPvB assessment: Not Available.

Other adverse effects: Not Available.

SECTION 13 – DISPOSAL CONSIDERATION

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: For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14 – TRANSPORTATION INFORMATION

<table>
<thead>
<tr>
<th>Regulatory Information</th>
<th>UN Number</th>
<th>Shipping Name</th>
<th>Class</th>
<th>Packing Group</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>TDG</td>
<td>UN 3082</td>
<td>Environmentally hazardous substance, liquid, n.o.s. (Contains:Bisphenol A-Epichlorohydrin polymer; Bisphenol F-Epichlorohydrin polymer)</td>
<td>9</td>
<td>III</td>
<td></td>
</tr>
</tbody>
</table>
**SECTION 15 – REGULATORY INFORMATION**

**Canadian Information:**
This product has been classified according to the hazard criteria of the Hazardous Products Regulations (HPR). This SDS contains all of the information required by the HPR.

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on either the Domestic Substances List (DSL) or the Non-Domestic Substances List (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. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes:
Immediate (Acute) Health Hazard
Chronic Health Hazard.

Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or 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.

U.S. State Right To Know Laws
California Proposition 65: Warning! This product contains a chemical known to the State of California to cause reproductive/developmental effects.


**SECTION 16 – OTHER INFORMATION**

**HMIS Rating**

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Physical Hazard</th>
<th>PPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>1</td>
<td>0</td>
<td>Gloves, safety glasses</td>
</tr>
</tbody>
</table>

**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
GHS: Globally Harmonized System
HPR: Hazardous Products Regulations
IARC: International Agency for Research on Cancer
Inh.: Inhalation
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 and Reauthorization Act
STEL: Short Term Exposure Limit
TDG: Canadian Transportation of Dangerous Goods Act & Regulations
TLV: Threshold Limit Values
TSCA: Toxic Substance Control Act
TWA: Time Weighted Average
WHMIS: Workplace Hazardous Materials Identification System

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 Americas 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.

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End of Document