

SAFETY DATA SHEET

Product: CP2050-FF-A
Revision Date: 6/01/2015

1. MATERIAL IDENTIFICATION

Product Name: Corr-Paint CP2050-FF-A Activator

Product Description: Amine Mixture, Light Yellow, Slight Odor
Product Use: High Performance Adhesive Hardener

Manufacturer: Aremco Products, Inc.
707-B Executive Blvd.
Valley Cottage, NY 10989

Telephone: 845-268-0039
Emergency Phone: 845-268-0039 or Infotrac (24/7) 800-535-5053

2. HAZARDS IDENTIFICATION

GHS Classification:

Oral, Acute Category 4
Skin Irritation Category 2
Skin Sensitization Category 1
Eye Irritation Category 2A
Respiratory, Acute Category 5

GHS Label Elements:



GHS Signal Word:

Warning

GHS Hazard Determining Component:

Formaldehyde, Polymer with Benzeneamine, Hydrogenated
Benzyl Alcohol
Hydroxy Modified Resin
4,4'-Methylenebis(Cyclohexylamine)

GHS Hazard Statements for Health Hazards:

H302 Harmful if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H333 May be harmful if inhaled.

GHS Precautionary Statements - Prevention:

P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves and eye/face protection.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P271 Use only in a well-ventilated area.
P285 In case of inadequate ventilation wear respiratory protection.

GHS Precautionary Statements - Response:

P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P333+P313 If skin irritation or rash occurs, get medical attention.
P362 Take off contaminated clothing and wash before reuse.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and continue rinsing.
P313+P337 If eye irritation persists, get medical attention.
P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P342+P311 If experiencing respiratory symptoms: Call a poison center or doctor.
P301+P312+P330 IF SWALLOWED: Call a poison center or doctor if you feel unwell. Rinse mouth.

GHS Storage/Disposal:

P501 Dispose in accordance with local, regional, national or international regulations.

3. COMPOSITION

| Chemical Name | CAS No. | EC No. | Concentration | GHS Product Identifier |
|-------------------------------------------------------|-------------|-----------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Calcium Carbonate | 1317-65-3 | 215-279-6 | 25.0-50.0% | None |
| Hydroxy Modified Resin | 68457-74-9 | 270-604-9 | 10.0-250.0% | H302 Acute Toxicity, Oral, Cat 4 H313 Acute Toxicity, Dermal, Cat 5 H315 Skin Corrosion/Irritation, Cat 2 H320 Eye Irritation, Cat 2B H334 Respiratory Sensitization, Cat 1 |
| Benzyl Alcohol | 100-51-6 | 202-859-9 | 10.0-25.0% | H302 Acute Toxicity, Oral, Cat 4 H332 Acute Toxicity, Inhalation, Cat 4 |
| Formaldehyde, Polymer with Benzeneamine, Hydrogenated | 135108-88-2 | 217-168-8 | 10.0-25.0% | H302 Acute Toxicity, Oral, Cat 4 H312 Acute Toxicity, Dermal, Cat 4 H317 Sensitization, Skin, Cat 1 |
| 4,4'-Methylenebis(Cyclohexylamine) | 1761-71-3 | 217-168-8 | <= 2.5% | H301 Acute Toxicity, Oral, Cat 3 H314 Skin Corrosion/Irritation, Cat 1B H318 Eye Damage/Irritation, Cat 1 |
| Fibrous Glass | 65997-17-3 | 266-046-0 | 2.5-10.0% | None |
| Silica, Hydrophobic Amorphous | 67762-90-7 | 614-122-2 | 2.5-10.0% | None |

Note

This product is a liquid mixture and all powders are encapsulated.

4. FIRST AID MEASURES**Eye Exposure:**

Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek immediate medical attention, preferably with an ophthalmologist. If a physician is not immediately available, eye irrigation should be continued for an additional 15 minutes.

Skin Exposure:

Immediately wipe excess material off skin with a dry cloth then wash with plenty of soap and water for at least 5 minutes. See medical attention if irritation develops or persists. Remove contaminated clothing and shoes and clean thoroughly before re-use.

Inhalation:

Remove from immediate source of exposure and assure that victim is breathing. If not breathing, administer cardio-pulmonary resuscitation (CPR). If breathing is difficult, administer oxygen if available. Seek medical attention. Symptoms can be delayed several hours.

Ingestion:

If swallowed, do not induce vomiting. If victim is conscious and alert, give 1-2 glasses of milk or water to drink. Do not give anything by mouth to an unconscious person. Seek medical attention immediately. Do not leave victim unattended. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. Vomiting may occur spontaneously. If vomiting occurs and the victim is conscious, give additional milk or water to further dilute the chemical.

5. FIRE FIGHTING MEASURES**Extinguishing Media:**

Use carbon dioxide, dry chemical, foam, or water spray.

Special Fire Fighting Procedures:

Firefighters should wear NIOSH/MSHA approved positive pressure breathing apparatus with full face-piece and full chemical resistant protective clothing. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later. Extreme heat or water contamination may cause closed containers to explode.

6. ACCIDENTAL RELEASE MEASURES**Personal Protection:**

Wear chemical goggles, body-covering protective clothing, chemical resistant gloves, and rubber boots. Use NIOSH approved respirator where mist occurs.

Spill Cleanup:

Mop up liquid and absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust) and dispose in accordance with federal, state and local regulations or permits. Flush area with solvent then water to complete cleanup.

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothing. Avoid breathing vapors. Keep container closed. Promptly clean residue from closures with cloth and solvent. Promptly clean up spills.

Storage: Store at room temperature in a dry, well ventilated area, away from combustible material, and away from ignition sources. Keep containers closed. Store in clean plastic or steel containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with limit values that require monitoring at the workplace:

| Chemical Name | CAS No. | EC No. | TLV (mg/m ³) | PEL (mg/m ³) |
|-------------------|-----------|-----------|--------------------------|--------------------------|
| Calcium Carbonate | 1317-65-3 | 215-279-6 | 10 | 15 |
| Benzyl Alcohol | 100-51-6 | 202-859-9 | 10 ppm | 10 ppm |

Engineering Controls: Normal ventilation for good working conditions should be used. Keep containers closed. Safety shower and eyewash fountain should be within direct access.

Respiratory Protection: This product is not considered respirable in either the liquid or cured forms. However, if the cured product is polished, ground or chipped during processing, handling or use, powders may be released as airborne respirable particles. In these instances, appropriate personal protection equipment and local ventilation controls must be employed. If exposure limits are exceeded and local ventilation is unavailable, a supplied-air respirator or a self-contained NIOSH-approved vapor respirator is required.

Skin Protection: Wear body-covering protective clothing and gloves.

Eye Protection: Wear chemical goggles or face shield.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Paste

Color: Light Yellow

Odor: Amine-Like

Odor Threshold: Not Determined

pH: Not Determined

Melting Point Range: Not Determined

Boiling Point Range: 205 °C (401 °F)

Flash Point (Closed Cup): 101 °C (214 °F)

Flammability (solid, gaseous): Not Applicable

Decomposition Temperature: Not Determined

Ignition Temperature: 435 °C (815 °F)

Auto Igniting: Product is not self-igniting

Danger of Explosion: Product does not present an explosion hazard

Explosion Limits

Lower: 1.3 Vol %

Upper: 13.0 Vol %

Vapor Pressure: 0.1 hPa @ 20 °C

Density: 1.5 g/cc @ 20 °C

Relative Density: Not Determined

Vapor Density: Not Determined

Evaporation Rate: Not Determined

Solubility in / Miscibility Water: Not miscible or difficult to mix

Partition Coefficient (n-Octanol/Water): Not Determined

Viscosity, Dynamic: Not Determined

Viscosity, Kinematic: Not Determined

Volatile Organic Compounds: 16.0%

10. STABILITY AND REACTIVITY

Chemical Stability: This material is stable under normal conditions of use and storage.

Conditions to Avoid: Reacts with epoxy and strong oxidizing agents.

Hazardous Polymerization: Will not occur.

Hazardous Decomposition Materials: Carbon monoxide, carbon dioxide, oxides of nitrogen, and other organic substances.

11. TOXICOLOGICAL INFORMATION

| | |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute Toxicity: | CAS No. 100-51-6, Benzyl Alcohol Oral LD50 1230 mg/kg (rat) Dermal LD50 2000 mg/kg (rabbit) |
| | CAS No. 135108-88-2, Formaldehyde, Polymer with Benzeneamine, Hydrogenated Oral LD50 1200 mg/kg (rat) Dermal LD50 2000 mg/kg (rabbit) |
| Primary Irritant Effect: | Skin: Irritant to skin and mucous membranes Eye: Irritating effect Sensitization: Sensitization possible through skin contact and inhalation |
| Additional Toxicological: | The product shows the following dangers according to internally approved calculation methods for preparations. Harmful Irritant |
| Carcinogenic Categories: | IARC None of the ingredients is listed NTP None of the ingredients is listed OSHA None of the ingredients is listed |

12. ECOLOGICAL INFORMATION

| | |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Aquatic Toxicity: | No further relevant information available. |
| Persistence & Degradability: | No further relevant information available. |
| Bioaccumulative Potential: | No further relevant information available. |
| Mobility in Soil: | No further relevant information available. |
| General Notes: | Water hazard class 1 (self-assessment): slightly hazardous for water. Do not allow product to reach ground water, water course or sewage system. |
| Results of PBT & vPvB Assessment: | |
| PBT: | Not applicable. |
| VPvB: | Not applicable |
| Other Adverse Effects: | No further information available. |

13. DISPOSAL CONSIDERATIONS

| | |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Disposal: | Keep out of surface waters, sewers, and waterways entering or leading to surface waters. Notify authorities if any exposure to the environment occurs or is likely to occur. Utilize an appropriate disposal facility, in compliance with federal, state and local environmental control regulations. |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

14. TRANSPORTATION INFORMATION

| | |
|-----------------------|------------------------------------------------------------------------|
| DOT UN Status: | The material is not a regulated hazardous material for transportation. |
|-----------------------|------------------------------------------------------------------------|

15. REGULATORY INFORMATION



U.S. Federal Regulations

| | |
|-------------------------------------|-------------------------------------------------------------------------------|
| CERCLA: | No CERCLA reportable quantity has been established for this material. |
| TSCA: | All ingredients of this material are listed on the TSCA inventory. |
| SARA Title III | |
| Sections 302, 304, 313, 355: | This product does not contain any substances reportable under these sections. |
| Sections 311, 312: | |

| Hazard Classes | Yes/No |
|-----------------------|---------------|
| Fire Hazard | No |
| Reactivity Hazard | No |
| Pressure Hazard | No |
| Immediate Hazard | Yes |
| Delayed Hazard | No |

| International Inventory | Status |
|--------------------------------|---------------|
| Canada (DSL) | Yes |
| Europe (EINECS/ELINCS) | Yes |
| Australia (AICS) | Yes |
| Japan (MITI) | Yes |
| South Korea (KECL) | Yes |

16. OTHER INFORMATION

| | | |
|-----------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| NFPA Ratings (scale 0 – 4) | Health, 2 Flammability, 1 Reactivity, 0 Personal Protection, H |  |
| HMIS Ratings (scale 0 – 4) | Health, 2 Flammability, 1 Reactivity, 0 Personal Protection, H |  |

Key Legend Information

| | |
|-------------------------|--------------------------------------------------------------------|
| ACGIH | American Conference of Governmental Industrial Hygienists |
| ARD | International Agency for Research on Cancer |
| CAS | Chemical Abstract Service |
| CERCLA | Comprehensive Environmental Response, Compensation & Liability Act |
| DSL | Domestic Substance List |
| EC | European Commission |
| HMIS | Hazardous Materials Identification System |
| IARC | International Agency for Research on Cancer |
| ND | Not Determined |
| NE | Not Established |
| NFPA | National Fire Protection Association |
| NIOSH | National Institute for Occupational Safety & Health |
| NTP | National Toxicology Program |
| OSHA | Occupational Safety and Health Administration |
| PEL | Permissible Exposure Limit |
| RE | Repeat Exposure |
| SARA | Superfund Amendments & Reauthorization Act |
| SARA Title III | Emergency Planning & Community Right to Know Act |
| SARA Section 302 | Extremely Hazardous Substances |
| SARA Section 304 | Emergency Release |
| SARA Section 311 | MSDS/List of Chemicals & Hazardous Inventory |
| SARA Section 312 | Emergency & Hazardous Inventory |
| SARA Section 313 | Toxic Chemicals & Release Reporting |
| SE | Single Exposure |
| STEL | Short Term Exposure Limit |
| STOT | Specific Target Organ Toxicity |
| TLV | Threshold Limit Value |
| TWA | Time Weighted Average |

Disclaimer: The information contained herein is based on data taken from sources believed to be both current and reliable at the time of publication. Aremco Products, Inc. makes no warranty, expressed or implied, as to the accuracy of this MSDS and assumes no liability arising from its use by others. Compliance with all applicable Federal, State and Local laws and regulations remains the responsibility of the user.

SAFETY DATA SHEET

Product: CP2050-FF-B
Revision Date: 6/01/2015

1. MATERIAL IDENTIFICATION

Product Name: Corr-Paint CP2050-FF-B Base Resin

Product Description: Epoxy Resin Mixture, Dark Red Paste, Aromatic Odor
Product Use: High Performance Adhesive Resin

Manufacturer: Aremco Products, Inc.
707-B Executive Blvd.
Valley Cottage, NY 10989

Telephone: 845-268-0039
Emergency Phone: 845-268-0039 or Infotrac (24/7) 800-535-5053

2. HAZARDS IDENTIFICATION

GHS Classification:

Aquatic Chronic Category 2
Eye Irritation Category 2A
Skin Irritation Category 2
Skin Sensitization Category 1

GHS Label Elements:



GHS Signal Word:

Warning

GHS Hazard Determining Component:

Epoxy Phenol Novolac Resin
Bisphenol A Diglycidyl Ether Resin

GHS Hazard Statements for Health Hazards:

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.

GHS Precautionary Statements - Prevention:

P261 Avoid breathing vapors.
P264 Wash hands thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves.

GHS Precautionary Statements - Response:

P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P332+P313 If skin irritation occurs, get medical attention.
P362 Take off contaminated clothing and wash before reuse.
P391 Collect spillage.

GHS Storage/Disposal:

P405 Store locked up.
P501 Dispose in accordance with local, regional, national or international regulations.

3. COMPOSITION

| Chemical Name | CAS No. | EC No. | Concentration | GHS Product Identifier |
|------------------------------------|------------|-----------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Epoxy Phenol Novolac Resin | 25068-38-6 | 500-033-5 | 25.0-50.0% | H315 Skin Corrosion/Irritation, Cat 2 H317 Sensitization, Skin, Cat 1 H319 Eye Damage/Irritation, Cat 2A |
| Bisphenol A Diglycidyl Ether Resin | 25068-38-6 | 500-033-5 | 10.0-25.0% | H315 Skin Corrosion/Irritation, Cat 2 H317 Sensitization, Skin, Cat 1 H319 Eye Damage/Irritation, Cat 2A H411 Aquatic Chronic, Cat 2 |
| Glass, Fibrous | 65997-17-3 | 266-047-6 | 20.0-40.0% | H316 Mild Skin Irritation, Cat 3 H320 Mild Eye Irritation, Cat 2B H335 STOT, SE; Respiratory System, Cat 3 |
| Iron Oxide Red | 1309-37-1 | 215-168-2 | 2.5-10.0% | H371 STOT, RE; Respiratory Tract Irritation, Cat 2 |
| Silica, Hydrophobic Amorphous | 67762-90-7 | 614-122-2 | 2.5-10.0% | None |

Note

This product is a liquid mixture and all powders are encapsulated.

4. FIRST AID MEASURES

Eye Exposure:

Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek immediate medical attention, preferably with an ophthalmologist. If a physician is not immediately available, eye irrigation should be continued for an additional 15 minutes.

Skin Exposure:

Immediately wipe excess material off skin with a dry cloth then wash with plenty of soap and water for at least 5 minutes. See medical attention if irritation develops or persists. Remove contaminated clothing and shoes and clean thoroughly before re-use.

Inhalation:

Remove from immediate source of exposure and assure that victim is breathing. If not breathing, administer cardio-pulmonary resuscitation (CPR). If breathing is difficult, administer oxygen if available. Seek medical attention. Symptoms can be delayed several hours.

Ingestion:

If swallowed, do not induce vomiting. If victim is conscious and alert, give 1-2 glasses of milk or water to drink. Do not give anything by mouth to an unconscious person. Seek medical attention immediately. Do not leave victim unattended. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. Vomiting may occur spontaneously. If vomiting occurs and the victim is conscious, give additional milk or water to further dilute the chemical.

Medical Conditions Possibly Aggravated by Exposure:

Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis. Skin contact may aggravate existing skin disease.

5. FIRE FIGHTING MEASURES

Extinguishing Media:

Use carbon dioxide, dry chemical, or appropriate foam.

Special Fire Fighting Procedures:

Firefighters should wear NIOSH/MSHA approved positive pressure breathing apparatus with full face-piece and full chemical resistant protective clothing. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later. Extreme heat or water contamination may cause closed containers to explode.

6. ACCIDENTAL RELEASE MEASURES

Personal Protection:

Wear chemical goggles, body-covering protective clothing, chemical resistant gloves, and rubber boots. Use NIOSH approved respirator where mist occurs.

Spill Cleanup:

Mop up liquid and dispose in accordance with federal, state and local regulations or permits. Flush area with solvent then water to complete cleanup.

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothing. Avoid breathing vapors. Keep container closed. Promptly clean residue from closures with cloth and solvent. Promptly clean up spills.

Storage: Store at room temperature in a dry, well ventilated area, away from combustible material, and away from ignition sources. Keep containers closed. Store in clean plastic or steel containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with limit values that require monitoring at the workplace:

This product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

| Chemical Name | CAS No. | EC No. | TLV (mg/m ³) | PEL (mg/m ³) |
|---------------|---------|--------|--------------------------|--------------------------|
| | | | | |

Engineering Controls: Normal ventilation for good working conditions should be used. Keep containers closed. Safety shower and eyewash fountain should be within direct access.

Respiratory Protection: This product is not considered respirable in either the liquid or cured forms. However, if the cured product is polished, ground or chipped during processing, handling or use, powders may be released as airborne respirable particles. In these instances, appropriate personal protection equipment and local ventilation controls must be employed. If exposure limits are exceeded and local ventilation is unavailable, a supplied-air respirator or a self-contained NIOSH-approved vapor respirator is required.

Skin Protection: Wear body-covering protective clothing and gloves.

Eye Protection: Wear chemical goggles or face shield.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Paste

Color: Dark Red

Odor: Aromatic

Odor Threshold: Not Determined

pH: Not Determined

Melting Point Range: Not Determined

Boiling Point Range: Not Determined

Flash Point (Closed Cup): 392 °F (200 °C)

Flammability (solid, gaseous): Not Applicable

Decomposition Temperature: Not Determined

Auto Igniting: Product is not self-igniting

Danger of Explosion: Product does not present an explosion hazard

Explosion Limits

Lower: Not Determined

Upper: Not Determined

Vapor Pressure (mm Hg): < 1 @ 25 °C

Density: 1.8 g/cc @ 20 °C

Relative Density: Not Determined

Vapor Density: Not Determined

Evaporation Rate: Not Determined

Solubility in / Miscibility Water: Not miscible or difficult to mix

Partition Coefficient (n-Octanol/Water): Not Determined

Viscosity, Dynamic: Not Determined

Viscosity, Kinematic: Not Determined

Volatile Organic Compounds: 0.00 g/l

10. STABILITY AND REACTIVITY

Chemical Stability: This material is stable under normal conditions of use and storage.

Conditions to Avoid: Reacts with amines and strong oxidizing agents.

Hazardous Polymerization: Will not occur.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide and other organic substances.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: CAS No. 28064-14-4 Epoxy Phenol Novolac Resin
Oral LD50 >2000 mg/kg (rat)
Dermal LD50 >2000 mg/kg (rabbit)

Primary Irritant Effect:
Skin: Irritant to skin and mucous membranes
Eye: Irritating effect
Sensitization: Sensitization possible through skin contact

Carcinogenic Categories: IARC CAS No. 1309-37-1, Iron Oxide Red, 3
NTP None of the ingredients is listed
OSHA None of the ingredients is listed

12. ECOLOGICAL INFORMATION

Aquatic Toxicity: No further relevant information available.
Persistence & Degradability: No further relevant information available.
Bioaccumulative Potential: No further relevant information available.
Mobility in Soil: No further relevant information available.
Ecotoxicity: Toxic for fish.
General Notes: Water hazard class 2 (self-assessment): Hazardous for water.
Do not allow product to reach ground water, water course or sewage system.
Dangerous to drinking water even if small quantities leak into the ground.
Poisonous to fish and plankton.
Toxic to aquatic organisms.

Results of PBT & vPvB Assessment:
PBT: Not applicable.
VPvB: Not applicable
Other Adverse Effects: No further information available.

13. DISPOSAL CONSIDERATIONS

Disposal: Keep out of surface waters, sewers, and waterways entering or leading to surface waters. Notify authorities if any exposure to the environment occurs or is likely to occur. Utilize an appropriate disposal facility, in compliance with federal, state and local environmental control regulations.

14. TRANSPORTATION INFORMATION

DOT UN Status: The material is not a regulated hazardous material for transportation.

15. REGULATORY INFORMATION

U.S. Federal Regulations

CERCLA: No CERCLA reportable quantity has been established for this material.

TSCA: All ingredients of this material are listed on the TSCA inventory.

SARA Title III



Sections 302, 304, 313: This product does not contain any substances reportable under these sections.

Sections 311, 312:

| <u>Hazard Classes</u> | <u>Yes/No</u> |
|-----------------------|---------------|
| Fire Hazard | No |
| Reactivity Hazard | No |
| Pressure Hazard | No |
| Immediate Hazard | Yes |
| Delayed Hazard | No |

| <u>International Inventory</u> | <u>Status</u> |
|--------------------------------|---------------|
| Canada (DSL) | Yes |
| Europe (EINECS/ELINCS) | Yes |
| Australia (AICS) | Yes |
| Japan (MITI) | Yes |
| South Korea (KECL) | Yes |

16. OTHER INFORMATION

| | | |
|-----------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| NFPA Ratings (scale 0 – 4) | Health, 2 Flammability, 1 Reactivity, 0 Personal Protection, H |  |
| HMIS Ratings (scale 0 – 4) | Health, 2 Flammability, 1 Reactivity, 0 Personal Protection, H |  |

Key Legend Information

| | |
|-------------------------|--------------------------------------------------------------------|
| ACGIH | American Conference of Governmental Industrial Hygienists |
| ARD | International Agency for Research on Cancer |
| CAS | Chemical Abstract Service |
| CERCLA | Comprehensive Environmental Response, Compensation & Liability Act |
| DSL | Domestic Substance List |
| EC | European Commission |
| HMIS | Hazardous Materials Identification System |
| IARC | International Agency for Research on Cancer |
| ND | Not Determined |
| NE | Not Established |
| NFPA | National Fire Protection Association |
| NIOSH | National Institute for Occupational Safety & Health |
| NTP | National Toxicology Program |
| OSHA | Occupational Safety and Health Administration |
| PEL | Permissible Exposure Limit |
| RE | Repeat Exposure |
| SARA | Superfund Amendments & Reauthorization Act |
| SARA Title III | Emergency Planning & Community Right to Know Act |
| SARA Section 302 | Extremely Hazardous Substances |
| SARA Section 304 | Emergency Release |
| SARA Section 311 | MSDS/List of Chemicals & Hazardous Inventory |
| SARA Section 312 | Emergency & Hazardous Inventory |
| SARA Section 313 | Toxic Chemicals & Release Reporting |
| SE | Single Exposure |
| STEL | Short Term Exposure Limit |
| STOT | Specific Target Organ Toxicity |
| TLV | Threshold Limit Value |
| TWA | Time Weighted Average |

Disclaimer: The information contained herein is based on data taken from sources believed to be both current and reliable at the time of publication. Aremco Products, Inc. makes no warranty, expressed or implied, as to the accuracy of this MSDS and assumes no liability arising from its use by others. Compliance with all applicable Federal, State and Local laws and regulations remains the responsibility of the user.

SAFETY DATA SHEET

Product: CP2050-LF-A
Revision Date: 6/01/2015

1. MATERIAL IDENTIFICATION

Product Name: Corr-Paint CP2050-LF-A Activator

Product Description: Amine Mixture, Light Yellow, Slight Odor
Product Use: High Performance Adhesive Hardener

Manufacturer: Aremco Products, Inc.
707-B Executive Blvd.
Valley Cottage, NY 10989

Telephone: 845-268-0039
Emergency Phone: 845-268-0039 or Infotrac (24/7) 800-535-5053

2. HAZARDS IDENTIFICATION

GHS Classification:

Oral, Acute Category 4
Skin Irritation Category 2
Skin Sensitization Category 1
Eye Irritation Category 2A
Respiratory, Acute Category 5

GHS Label Elements:



GHS Signal Word:

Warning

GHS Hazard Determining Component:

Formaldehyde, Polymer with Benzeneamine, Hydrogenated
Benzyl Alcohol
Hydroxy Modified Resin
4,4'-Methylenebis(Cyclohexylamine)

GHS Hazard Statements for Health Hazards:

H302 Harmful if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H333 May be harmful if inhaled.

GHS Precautionary Statements - Prevention:

P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves and eye/face protection.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P271 Use only in a well-ventilated area .
P285 In case of inadequate ventilation wear respiratory protection.

GHS Precautionary Statements – Response:

P302+P352 IF ON SKIN: Wash with plenty of soap and water
P333+P313 If skin irritation or rash occurs, get medical attention
P362 Take off contaminated clothing and wash before reuse
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and continue rinsing
P313+P337 If eye irritation persists, get medical attention
P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing
P342+P311 If experiencing respiratory symptoms: Call a poison center or doctor.
P301+P312+P330 IF SWALLOWED: Call a poison center or doctor if you feel unwell. Rinse mouth.

GHS Storage/Disposal:

P501

Dispose in accordance with local, regional, national or international regulations

3. COMPOSITION

| Chemical Name | CAS No. | EC No. | Concentration | GHS Product Identifier |
|-------------------------------------------------------|-------------|-----------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Calcium Carbonate | 1317-65-3 | 215-279-6 | 25.0-50.0% | None |
| Hydroxy Modified Resin | 68457-74-9 | 270-604-9 | 10.0-250.0% | H302 Acute Toxicity, Oral, Cat 4 H313 Acute Toxicity, Dermal, Cat 5 H315 Skin Corrosion/Irritation, Cat 2 H320 Eye Irritation, Cat 2B H334 Respiratory Sensitization, Cat 1 |
| Benzyl Alcohol | 100-51-6 | 202-859-9 | 10.0-25.0% | H302 Acute Toxicity, Oral, Cat 4 H332 Acute Toxicity, Inhalation, Cat 4 |
| Formaldehyde, Polymer with Benzeneamine, Hydrogenated | 135108-88-2 | 217-168-8 | 10.0-25.0% | H302 Acute Toxicity, Oral, Cat 4 H312 Acute Toxicity, Dermal, Cat 4 H317 Sensitization, Skin, Cat 1 |
| 4,4'-Methylenebis(Cyclohexylamine) | 1761-71-3 | 217-168-8 | <= 2.5% | H301 Acute Toxicity, Oral, Cat 3 H314 Skin Corrosion/Irritation, Cat 1B H318 Eye Damage/Irritation, Cat 1 |
| Fibrous Glass | 65997-17-3 | 266-046-0 | 2.5-10.0% | None |
| Silica, Hydrophobic Amorphous | 67762-90-7 | 614-122-2 | 2.5-10.0% | None |

Note

This product is a liquid mixture and all powders are encapsulated.

4. FIRST AID MEASURES**Eye Exposure:**

Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek immediate medical attention, preferably with an ophthalmologist. If a physician is not immediately available, eye irrigation should be continued for an additional 15 minutes.

Skin Exposure:

Immediately wipe excess material off skin with a dry cloth then wash with plenty of soap and water for at least 5 minutes. See medical attention if irritation develops or persists. Remove contaminated clothing and shoes and clean thoroughly before re-use.

Inhalation:

Remove from immediate source of exposure and assure that victim is breathing. If not breathing, administer cardio-pulmonary resuscitation (CPR). If breathing is difficult, administer oxygen if available. Seek medical attention. Symptoms can be delayed several hours.

Ingestion:

If swallowed, do not induce vomiting. If victim is conscious and alert, give 1-2 glasses of milk or water to drink. Do not give anything by mouth to an unconscious person. Seek medical attention immediately. Do not leave victim unattended. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. Vomiting may occur spontaneously. If vomiting occurs and the victim is conscious, give additional milk or water to further dilute the chemical.

5. FIRE FIGHTING MEASURES**Extinguishing Media:**

Use carbon dioxide, dry chemical, foam, or water spray.

Special Fire Fighting Procedures:

Firefighters should wear NIOSH/MSHA approved positive pressure breathing apparatus with full face-piece and full chemical resistant protective clothing. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later. Extreme heat or water contamination may cause closed containers to explode.

6. ACCIDENTAL RELEASE MEASURES**Personal Protection:**

Wear chemical goggles, body-covering protective clothing, chemical resistant gloves, and rubber boots. Use NIOSH approved respirator where mist occurs.

Spill Cleanup:

Mop up liquid and absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust) and dispose in accordance with federal, state and local regulations or permits. Flush area with solvent then water to complete cleanup.

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothing. Avoid breathing vapors. Keep container closed. Promptly clean residue from closures with cloth and solvent. Promptly clean up spills.

Storage: Store at room temperature in a dry, well ventilated area, away from combustible material, and away from ignition sources. Keep containers closed. Store in clean plastic or steel containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with limit values that require monitoring at the workplace:

| Chemical Name | CAS No. | EC No. | TLV (mg/m ³) | PEL (mg/m ³) |
|-------------------|-----------|-----------|--------------------------|--------------------------|
| Calcium Carbonate | 1317-65-3 | 215-279-6 | 10 | 15 |
| Benzyl Alcohol | 100-51-6 | 202-859-9 | 10 ppm | 10 ppm |

Engineering Controls: Normal ventilation for good working conditions should be used. Keep containers closed. Safety shower and eyewash fountain should be within direct access.

Respiratory Protection: This product is not considered respirable in either the liquid or cured forms. However, if the cured product is polished, ground or chipped during processing, handling or use, powders may be released as airborne respirable particles. In these instances, appropriate personal protection equipment and local ventilation controls must be employed. If exposure limits are exceeded and local ventilation is unavailable, a supplied-air respirator or a self-contained NIOSH-approved vapor respirator is required.

Skin Protection: Wear body-covering protective clothing and gloves.

Eye Protection: Wear chemical goggles or face shield.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Paste

Color: Light Yellow

Odor: Amine-Like

Odor Threshold: Not Determined

pH: Not Determined

Melting Point Range: Not Determined

Boiling Point Range: 205 °C (401 °F)

Flash Point (Closed Cup): 101 °C (214 °F)

Flammability (solid, gaseous): Not Applicable

Decomposition Temperature: Not Determined

Ignition Temperature: 435 °C (815 °F)

Auto Igniting: Product is not self-igniting

Danger of Explosion: Product does not present an explosion hazard

Explosion Limits

Lower: 1.3 Vol %

Upper: 13.0 Vol %

Vapor Pressure: 0.1 hPa @ 20 °C

Density: 1.5 g/cc @ 20 °C

Relative Density: Not Determined

Vapor Density: Not Determined

Evaporation Rate: Not Determined

Solubility in / Miscibility Water: Not miscible or difficult to mix

Partition Coefficient (n-Octanol/Water): Not Determined

Viscosity, Dynamic: Not Determined

Viscosity, Kinematic: Not Determined

Volatile Organic Compounds: 16.0%

10. STABILITY AND REACTIVITY

Chemical Stability: This material is stable under normal conditions of use and storage.

Conditions to Avoid: Reacts with epoxy and strong oxidizing agents.

Hazardous Polymerization: Will not occur.

Hazardous Decomposition Materials: Carbon monoxide, carbon dioxide, oxides of nitrogen, and other organic substances.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:

CAS No. 100-51-6, Benzyl Alcohol
Oral LD50 1230 mg/kg (rat)
Dermal LD50 2000 mg/kg (rabbit)

CAS No. 135108-88-2, Formaldehyde, Polymer with Benzeneamine, Hydrogenated
Oral LD50 1200 mg/kg (rat)
Dermal LD50 2000 mg/kg (rabbit)

Primary Irritant Effect:

Skin: Irritant to skin and mucous membranes
Eye: Irritating effect
Sensitization: Sensitization possible through skin contact and inhalation

Additional Toxicological:

The product shows the following dangers according to internally approved calculation methods for preparations.
Harmful
Irritant

Carcinogenic Categories:

IARC None of the ingredients is listed
NTP None of the ingredients is listed
OSHA None of the ingredients is listed

12. ECOLOGICAL INFORMATION

Aquatic Toxicity:

No further relevant information available.

Persistence & Degradability:

No further relevant information available.

Bioaccumulative Potential:

No further relevant information available.

Mobility in Soil:

No further relevant information available.

General Notes:

Water hazard class 1 (self-assessment): slightly hazardous for water.
Do not allow product to reach ground water, water course or sewage system.

Results of PBT & vPvB Assessment:

PBT:

Not applicable.

VPvB:

Not applicable

Other Adverse Effects:

No further information available.

13. DISPOSAL CONSIDERATIONS

Disposal:

Keep out of surface waters, sewers, and waterways entering or leading to surface waters. Notify authorities if any exposure to the environment occurs or is likely to occur. Utilize an appropriate disposal facility, in compliance with federal, state and local environmental control regulations.

14. TRANSPORTATION INFORMATION

DOT UN Status:

The material is not a regulated hazardous material for transportation.

15. REGULATORY INFORMATION

U.S. Federal Regulations

CERCLA:

No CERCLA reportable quantity has been established for this material.

TSCA:

All ingredients of this material are listed on the TSCA inventory.

SARA Title III

Sections 302, 304, 313, 355:



This product does not contain any substances reportable under these sections.

Sections 311, 312:

| Hazard Classes | Yes/No |
|-----------------------|---------------|
| Fire Hazard | No |
| Reactivity Hazard | No |
| Pressure Hazard | No |
| Immediate Hazard | Yes |
| Delayed Hazard | No |

| International Inventory | Status |
|--------------------------------|---------------|
| Canada (DSL) | Yes |
| Europe (EINECS/ELINCS) | Yes |
| Australia (AICS) | Yes |
| Japan (MITI) | Yes |
| South Korea (KECL) | Yes |

16. OTHER INFORMATION

| | | |
|-----------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| NFPA Ratings (scale 0 – 4) | Health, 2 Flammability, 1 Reactivity, 0 Personal Protection, H |  |
| HMIS Ratings (scale 0 – 4) | Health, 2 Flammability, 1 Reactivity, 0 Personal Protection, H |  |

Key Legend Information

| | |
|-------------------------|--------------------------------------------------------------------|
| ACGIH | American Conference of Governmental Industrial Hygienists |
| ARD | International Agency for Research on Cancer |
| CAS | Chemical Abstract Service |
| CERCLA | Comprehensive Environmental Response, Compensation & Liability Act |
| DSL | Domestic Substance List |
| EC | European Commission |
| HMIS | Hazardous Materials Identification System |
| IARC | International Agency for Research on Cancer |
| ND | Not Determined |
| NE | Not Established |
| NFPA | National Fire Protection Association |
| NIOSH | National Institute for Occupational Safety & Health |
| NTP | National Toxicology Program |
| OSHA | Occupational Safety and Health Administration |
| PEL | Permissible Exposure Limit |
| RE | Repeat Exposure |
| SARA | Superfund Amendments & Reauthorization Act |
| SARA Title III | Emergency Planning & Community Right to Know Act |
| SARA Section 302 | Extremely Hazardous Substances |
| SARA Section 304 | Emergency Release |
| SARA Section 311 | MSDS/List of Chemicals & Hazardous Inventory |
| SARA Section 312 | Emergency & Hazardous Inventory |
| SARA Section 313 | Toxic Chemicals & Release Reporting |
| SE | Single Exposure |
| STEL | Short Term Exposure Limit |
| STOT | Specific Target Organ Toxicity |
| TLV | Threshold Limit Value |
| TWA | Time Weighted Average |

Disclaimer: The information contained herein is based on data taken from sources believed to be both current and reliable at the time of publication. Aremco Products, Inc. makes no warranty, expressed or implied, as to the accuracy of this MSDS and assumes no liability arising from its use by others. Compliance with all applicable Federal, State and Local laws and regulations remains the responsibility of the user.

SAFETY DATA SHEET

Product: CP2050-LF-B
Revision Date: 6/01/2015

1. MATERIAL IDENTIFICATION

Product Name: Corr-Paint CP2050-LF-B Base Resin

Product Description: Epoxy Resin Mixture, Dark Red Paste, Aromatic Odor
Product Use: High Performance Adhesive Resin

Manufacturer: Aremco Products, Inc.
707-B Executive Blvd.
Valley Cottage, NY 10989

Telephone: 845-268-0039
Emergency Phone: 845-268-0039 or Infotrac (24/7) 800-535-5053

2. HAZARDS IDENTIFICATION

GHS Classification:

Aquatic Chronic Category 2
Eye Irritation Category 2A
Skin Irritation Category 2
Skin Sensitization Category 1

GHS Label Elements:



GHS Signal Word:

Warning

GHS Hazard Determining Component:

Epoxy Phenol Novolac Resin
Bisphenol A Diglycidyl Ether Resin

GHS Hazard Statements for Health Hazards:

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.

GHS Precautionary Statements - Prevention:

P261 Avoid breathing vapors.
P264 Wash hands thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves.

GHS Precautionary Statements – Response:

P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P332+P313 If skin irritation occurs, get medical attention.
P362 Take off contaminated clothing and wash before reuse.
P391 Collect spillage.

GHS Storage/Disposal:

P405 Store locked up.
P501 Dispose in accordance with local, regional, national or international regulations.

3. COMPOSITION

| Chemical Name | CAS No. | EC No. | Concentration | GHS Product Identifier |
|------------------------------------|------------|-----------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Epoxy Phenol Novolac Resin | 25068-38-6 | 500-033-5 | 25.0-50.0% | H315 Skin Corrosion/Irritation, Cat 2 H317 Sensitization, Skin, Cat 1 H319 Eye Damage/Irritation, Cat 2A |
| Bisphenol A Diglycidyl Ether Resin | 25068-38-6 | 500-033-5 | 10.0-25.0% | H315 Skin Corrosion/Irritation, Cat 2 H317 Sensitization, Skin, Cat 1 H319 Eye Damage/Irritation, Cat 2A H411 Aquatic Chronic, Cat 2 |
| Glass, Fibrous | 65997-17-3 | 266-047-6 | 20.0-40.0% | H316 Mild Skin Irritation, Cat 3 H320 Mild Eye Irritation, Cat 2B H335 STOT, SE; Respiratory System, Cat 3 |
| Iron Oxide Red | 1309-37-1 | 215-168-2 | 2.5-10.0% | H371 STOT, RE; Respiratory Tract Irritation, Cat 2 |
| Silica, Hydrophobic Amorphous | 67762-90-7 | 614-122-2 | 2.5-10.0% | None |

Note

This product is a liquid mixture and all powders are encapsulated.

4. FIRST AID MEASURES

Eye Exposure:

Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek immediate medical attention, preferably with an ophthalmologist. If a physician is not immediately available, eye irrigation should be continued for an additional 15 minutes.

Skin Exposure:

Immediately wipe excess material off skin with a dry cloth then wash with plenty of soap and water for at least 5 minutes. See medical attention if irritation develops or persists. Remove contaminated clothing and shoes and clean thoroughly before re-use.

Inhalation:

Remove from immediate source of exposure and assure that victim is breathing. If not breathing, administer cardio-pulmonary resuscitation (CPR). If breathing is difficult, administer oxygen if available. Seek medical attention. Symptoms can be delayed several hours.

Ingestion:

If swallowed, do not induce vomiting. If victim is conscious and alert, give 1-2 glasses of milk or water to drink. Do not give anything by mouth to an unconscious person. Seek medical attention immediately. Do not leave victim unattended. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. Vomiting may occur spontaneously. If vomiting occurs and the victim is conscious, give additional milk or water to further dilute the chemical.

Medical Conditions Possibly Aggravated by Exposure:

Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis. Skin contact may aggravate existing skin disease.

5. FIRE FIGHTING MEASURES

Extinguishing Media:

Use carbon dioxide, dry chemical, or appropriate foam.

Special Fire Fighting Procedures:

Firefighters should wear NIOSH/MSHA approved positive pressure breathing apparatus with full face-piece and full chemical resistant protective clothing. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later. Extreme heat or water contamination may cause closed containers to explode.

6. ACCIDENTAL RELEASE MEASURES

Personal Protection:

Wear chemical goggles, body-covering protective clothing, chemical resistant gloves, and rubber boots. Use NIOSH approved respirator where mist occurs.

Spill Cleanup:

Mop up liquid and dispose in accordance with federal, state and local regulations or permits. Flush area with solvent then water to complete cleanup.

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothing. Avoid breathing vapors. Keep container closed. Promptly clean residue from closures with cloth and solvent. Promptly clean up spills.

Storage: Store at room temperature in a dry, well ventilated area, away from combustible material, and away from ignition sources. Keep containers closed. Store in clean plastic or steel containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with limit values that require monitoring at the workplace:

This product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

| Chemical Name | CAS No. | EC No. | TLV (mg/m ³) | PEL (mg/m ³) |
|---------------|---------|--------|--------------------------|--------------------------|
| | | | | |

Engineering Controls: Normal ventilation for good working conditions should be used. Keep containers closed. Safety shower and eyewash fountain should be within direct access.

Respiratory Protection: This product is not considered respirable in either the liquid or cured forms. However, if the cured product is polished, ground or chipped during processing, handling or use, powders may be released as airborne respirable particles. In these instances, appropriate personal protection equipment and local ventilation controls must be employed. If exposure limits are exceeded and local ventilation is unavailable, a supplied-air respirator or a self-contained NIOSH-approved vapor respirator is required.

Skin Protection: Wear body-covering protective clothing and gloves.

Eye Protection: Wear chemical goggles or face shield.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Paste

Color: Dark Red

Odor: Aromatic

Odor Threshold: Not Determined

pH: Not Determined

Melting Point Range: Not Determined

Boiling Point Range: Not Determined

Flash Point (Closed Cup): 392 °F (200 °C)

Flammability (solid, gaseous): Not Applicable

Decomposition Temperature: Not Determined

Auto Igniting: Product is not self-igniting

Danger of Explosion: Product does not present an explosion hazard

Explosion Limits

Lower: Not Determined

Upper: Not Determined

Vapor Pressure (mm Hg): < 1 @ 25 °C

Density: 1.8 g/cc @ 20 °C

Relative Density: Not Determined

Vapor Density: Not Determined

Evaporation Rate: Not Determined

Solubility in / Miscibility Water: Not miscible or difficult to mix

Partition Coefficient

(n-Octanol/Water): Not Determined

Viscosity, Dynamic: Not Determined

Viscosity, Kinematic: Not Determined

Volatile Organic Compounds: 0.00 g/l

10. STABILITY AND REACTIVITY

Chemical Stability: This material is stable under normal conditions of use and storage.

Conditions to Avoid: Reacts with amines and strong oxidizing agents.

Hazardous Polymerization: Will not occur.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide and other organic substances.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: CAS No. 28064-14-4 Epoxy Phenol Novolac Resin
Oral LD50 >2000 mg/kg (rat)
Dermal LD50 >2000 mg/kg (rabbit)

Primary Irritant Effect:
Skin: Irritant to skin and mucous membranes
Eye: Irritating effect
Sensitization: Sensitization possible through skin contact

Carcinogenic Categories: IARC CAS No. 1309-37-1, Iron Oxide Red, 3
NTP None of the ingredients is listed
OSHA None of the ingredients is listed

12. ECOLOGICAL INFORMATION

Aquatic Toxicity: No further relevant information available.
Persistence & Degradability: No further relevant information available.
Bioaccumulative Potential: No further relevant information available.
Mobility in Soil: No further relevant information available.
Ecotoxicity: Toxic for fish.
General Notes: Water hazard class 2 (self-assessment): Hazardous for water.
Do not allow product to reach ground water, water course or sewage system.
Dangerous to drinking water even if small quantities leak into the ground.
Poisonous to fish and plankton.
Toxic to aquatic organisms.

Results of PBT & vPvB Assessment:
PBT: Not applicable.
VPvB: Not applicable
Other Adverse Effects: No further information available.

13. DISPOSAL CONSIDERATIONS

Disposal: Keep out of surface waters, sewers, and waterways entering or leading to surface waters. Notify authorities if any exposure to the environment occurs or is likely to occur. Utilize an appropriate disposal facility, in compliance with federal, state and local environmental control regulations.

14. TRANSPORTATION INFORMATION

DOT UN Status: The material is not a regulated hazardous material for transportation.

15. REGULATORY INFORMATION

U.S. Federal Regulations

CERCLA: No CERCLA reportable quantity has been established for this material.

TSCA: All ingredients of this material are listed on the TSCA inventory.

SARA Title III



Sections 302, 304, 313: This product does not contain any substances reportable under these sections.

Sections 311, 312:

| <u>Hazard Classes</u> | <u>Yes/No</u> |
|-----------------------|---------------|
| Fire Hazard | No |
| Reactivity Hazard | No |
| Pressure Hazard | No |
| Immediate Hazard | Yes |
| Delayed Hazard | No |

| <u>International Inventory</u> | <u>Status</u> |
|--------------------------------|---------------|
| Canada (DSL) | Yes |
| Europe (EINECS/ELINCS) | Yes |
| Australia (AICS) | Yes |
| Japan (MITI) | Yes |
| South Korea (KECL) | Yes |

16. OTHER INFORMATION

| | | |
|-----------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| NFPA Ratings (scale 0 – 4) | Health, 2 Flammability, 1 Reactivity, 0 Personal Protection, H |  |
| HMIS Ratings (scale 0 – 4) | Health, 2 Flammability, 1 Reactivity, 0 Personal Protection, H |  |

Key Legend Information

| | |
|-------------------------|--------------------------------------------------------------------|
| ACGIH | American Conference of Governmental Industrial Hygienists |
| ARD | International Agency for Research on Cancer |
| CAS | Chemical Abstract Service |
| CERCLA | Comprehensive Environmental Response, Compensation & Liability Act |
| DSL | Domestic Substance List |
| EC | European Commission |
| HMIS | Hazardous Materials Identification System |
| IARC | International Agency for Research on Cancer |
| ND | Not Determined |
| NE | Not Established |
| NFPA | National Fire Protection Association |
| NIOSH | National Institute for Occupational Safety & Health |
| NTP | National Toxicology Program |
| OSHA | Occupational Safety and Health Administration |
| PEL | Permissible Exposure Limit |
| RE | Repeat Exposure |
| SARA | Superfund Amendments & Reauthorization Act |
| SARA Title III | Emergency Planning & Community Right to Know Act |
| SARA Section 302 | Extremely Hazardous Substances |
| SARA Section 304 | Emergency Release |
| SARA Section 311 | MSDS/List of Chemicals & Hazardous Inventory |
| SARA Section 312 | Emergency & Hazardous Inventory |
| SARA Section 313 | Toxic Chemicals & Release Reporting |
| SE | Single Exposure |
| STEL | Short Term Exposure Limit |
| STOT | Specific Target Organ Toxicity |
| TLV | Threshold Limit Value |
| TWA | Time Weighted Average |

Disclaimer: The information contained herein is based on data taken from sources believed to be both current and reliable at the time of publication. Aremco Products, Inc. makes no warranty, expressed or implied, as to the accuracy of this MSDS and assumes no liability arising from its use by others. Compliance with all applicable Federal, State and Local laws and regulations remains the responsibility of the user.

SAFETY DATA SHEET

Product: CP2050-NF-A
Revision Date: 6/01/2015

1. MATERIAL IDENTIFICATION

Product Name: Corr-Paint CP2050-NF-A Activator

Product Description: Amine Mixture, Light Yellow, Slight Odor
Product Use: High Performance Adhesive Hardener

Manufacturer: Aremco Products, Inc.
707-B Executive Blvd.
Valley Cottage, NY 10989

Telephone: 845-268-0039
Emergency Phone: 845-268-0039 or Infotrac (24/7) 800-535-5053

2. HAZARDS IDENTIFICATION

GHS Classification:

| | |
|--------------------|-------------|
| Oral, Acute | Category 4 |
| Skin Irritation | Category 2 |
| Skin Sensitization | Category 1 |
| Eye Irritation | Category 2A |
| Respiratory, Acute | Category 5 |

GHS Label Elements:



GHS Signal Word:

Warning

GHS Hazard Determining Component:

Formaldehyde, Polymer with Benzeneamine, Hydrogenated
Benzyl Alcohol
Hydroxy Modified Resin
4,4'-Methylenebis(Cyclohexylamine)

GHS Hazard Statements for Health Hazards:

| | |
|------|--------------------------------------|
| H302 | Harmful if swallowed. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H333 | May be harmful if inhaled. |

GHS Precautionary Statements - Prevention:

| | |
|------|------------------------------------------------------------------------|
| P264 | Wash hands thoroughly after handling. |
| P270 | Do not eat, drink or smoke when using this product. |
| P280 | Wear protective gloves and eye/face protection. |
| P261 | Avoid breathing dust/fume/gas/mist/vapors/spray. |
| P272 | Contaminated work clothing should not be allowed out of the workplace. |
| P271 | Use only in a well-ventilated area. |
| P285 | In case of inadequate ventilation wear respiratory protection. |

GHS Precautionary Statements - Response:

| | |
|----------------|----------------------------------------------------------------------------------------------------------------------------|
| P302+P352 | IF ON SKIN: Wash with plenty of soap and water |
| P333+P313 | If skin irritation or rash occurs, get medical attention |
| P362 | Take off contaminated clothing and wash before reuse |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and continue rinsing |
| P313+P337 | If eye irritation persists, get medical attention |
| P304+P341 | IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing |
| P342+P311 | If experiencing respiratory symptoms: Call a poison center or doctor. |
| P301+P312+P330 | IF SWALLOWED: Call a poison center or doctor if you feel unwell. Rinse mouth. |

GHS Storage/Disposal:

P501

Dispose in accordance with local, regional, national or international regulations

3. COMPOSITION

| Chemical Name | CAS No. | EC No. | Concentration | GHS Product Identifier |
|-------------------------------------------------------|-------------|-----------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Calcium Carbonate | 1317-65-3 | 215-279-6 | 25.0-50.0% | None |
| Hydroxy Modified Resin | 68457-74-9 | 270-604-9 | 10.0-250.0% | H302 Acute Toxicity, Oral, Cat 4 H313 Acute Toxicity, Dermal, Cat 5 H315 Skin Corrosion/Irritation, Cat 2 H320 Eye Irritation, Cat 2B H334 Respiratory Sensitization, Cat 1 |
| Benzyl Alcohol | 100-51-6 | 202-859-9 | 10.0-25.0% | H302 Acute Toxicity, Oral, Cat 4 H332 Acute Toxicity, Inhalation, Cat 4 |
| Formaldehyde, Polymer with Benzeneamine, Hydrogenated | 135108-88-2 | 217-168-8 | 10.0-25.0% | H302 Acute Toxicity, Oral, Cat 4 H312 Acute Toxicity, Dermal, Cat 4 H317 Sensitization, Skin, Cat 1 |
| 4,4'-Methylenebis(Cyclohexylamine) | 1761-71-3 | 217-168-8 | <= 2.5% | H301 Acute Toxicity, Oral, Cat 3 H314 Skin Corrosion/Irritation, Cat 1B H318 Eye Damage/Irritation, Cat 1 |
| Silica, Hydrophobic Amorphous | 67762-90-7 | 614-122-2 | 2.5-10.0% | None |

Note

This product is a liquid mixture and all powders are encapsulated.

4. FIRST AID MEASURES**Eye Exposure:**

Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek immediate medical attention, preferably with an ophthalmologist. If a physician is not immediately available, eye irrigation should be continued for an additional 15 minutes.

Skin Exposure:

Immediately wipe excess material off skin with a dry cloth then wash with plenty of soap and water for at least 5 minutes. See medical attention if irritation develops or persists. Remove contaminated clothing and shoes and clean thoroughly before re-use.

Inhalation:

Remove from immediate source of exposure and assure that victim is breathing. If not breathing, administer cardio-pulmonary resuscitation (CPR). If breathing is difficult, administer oxygen if available. Seek medical attention. Symptoms can be delayed several hours.

Ingestion:

If swallowed, do not induce vomiting. If victim is conscious and alert, give 1-2 glasses of milk or water to drink. Do not give anything by mouth to an unconscious person. Seek medical attention immediately. Do not leave victim unattended. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. Vomiting may occur spontaneously. If vomiting occurs and the victim is conscious, give additional milk or water to further dilute the chemical.

5. FIRE FIGHTING MEASURES**Extinguishing Media:**

Use carbon dioxide, dry chemical, foam, or water spray.

Special Fire Fighting Procedures:

Firefighters should wear NIOSH/MSHA approved positive pressure breathing apparatus with full face-piece and full chemical resistant protective clothing. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later. Extreme heat or water contamination may cause closed containers to explode.

6. ACCIDENTAL RELEASE MEASURES**Personal Protection:**

Wear chemical goggles, body-covering protective clothing, chemical resistant gloves, and rubber boots. Use NIOSH approved respirator where mist occurs.

Spill Cleanup:

Mop up liquid and absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust) and dispose in accordance with federal, state and local regulations or permits. Flush area with solvent then water to complete cleanup.

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothing. Avoid breathing vapors. Keep container closed. Promptly clean residue from closures with cloth and solvent. Promptly clean up spills.

Storage: Store at room temperature in a dry, well ventilated area, away from combustible material, and away from ignition sources. Keep containers closed. Store in clean plastic or steel containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with limit values that require monitoring at the workplace:

| Chemical Name | CAS No. | EC No. | TLV (mg/m ³) | PEL (mg/m ³) |
|-------------------|-----------|-----------|--------------------------|--------------------------|
| Calcium Carbonate | 1317-65-3 | 215-279-6 | 10 | 15 |
| Benzyl Alcohol | 100-51-6 | 202-859-9 | 10 ppm | 10 ppm |

Engineering Controls: Normal ventilation for good working conditions should be used. Keep containers closed. Safety shower and eyewash fountain should be within direct access.

Respiratory Protection: This product is not considered respirable in either the liquid or cured forms. However, if the cured product is polished, ground or chipped during processing, handling or use, powders may be released as airborne respirable particles. In these instances, appropriate personal protection equipment and local ventilation controls must be employed. If exposure limits are exceeded and local ventilation is unavailable, a supplied-air respirator or a self-contained NIOSH-approved vapor respirator is required.

Skin Protection: Wear body-covering protective clothing and gloves.

Eye Protection: Wear chemical goggles or face shield.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Paste

Color: Light Yellow

Odor: Amine-Like

Odor Threshold: Not Determined

pH: Not Determined

Melting Point Range: Not Determined

Boiling Point Range: 205 °C (401 °F)

Flash Point (Closed Cup): 101 °C (214 °F)

Flammability (solid, gaseous): Not Applicable

Decomposition Temperature: Not Determined

Ignition Temperature: 435 °C (815 °F)

Auto Igniting: Product is not self-igniting

Danger of Explosion: Product does not present an explosion hazard

Explosion Limits

Lower: 1.3 Vol %

Upper: 13.0 Vol %

Vapor Pressure: 0.1 hPa @ 20 °C

Density: 1.5 g/cc @ 20 °C

Relative Density: Not Determined

Vapor Density: Not Determined

Evaporation Rate: Not Determined

Solubility in / Miscibility Water: Not miscible or difficult to mix

Partition Coefficient (n-Octanol/Water): Not Determined

Viscosity, Dynamic: Not Determined

Viscosity, Kinematic: Not Determined

Volatile Organic Compounds: 16.0%

10. STABILITY AND REACTIVITY

Chemical Stability: This material is stable under normal conditions of use and storage.

Conditions to Avoid: Reacts with epoxy and strong oxidizing agents.

Hazardous Polymerization: Will not occur.

Hazardous Decomposition Materials: Carbon monoxide, carbon dioxide, oxides of nitrogen, and other organic substances.

11. TOXICOLOGICAL INFORMATION

| | |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute Toxicity: | CAS No. 100-51-6, Benzyl Alcohol Oral LD50 1230 mg/kg (rat) Dermal LD50 2000 mg/kg (rabbit) |
| | CAS No. 135108-88-2, Formaldehyde, Polymer with Benzeneamine, Hydrogenated Oral LD50 1200 mg/kg (rat) Dermal LD50 2000 mg/kg (rabbit) |
| Primary Irritant Effect: | Skin: Irritant to skin and mucous membranes Eye: Irritating effect Sensitization: Sensitization possible through skin contact and inhalation |
| Additional Toxicological: | The product shows the following dangers according to internally approved calculation methods for preparations. Harmful Irritant |
| Carcinogenic Categories: | IARC None of the ingredients is listed NTP None of the ingredients is listed OSHA None of the ingredients is listed |

12. ECOLOGICAL INFORMATION

| | |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Aquatic Toxicity: | No further relevant information available. |
| Persistence & Degradability: | No further relevant information available. |
| Bioaccumulative Potential: | No further relevant information available. |
| Mobility in Soil: | No further relevant information available. |
| General Notes: | Water hazard class 1 (self-assessment): slightly hazardous for water. Do not allow product to reach ground water, water course or sewage system. |
| Results of PBT & vPvB Assessment: | |
| PBT: | Not applicable. |
| VPvB: | Not applicable |
| Other Adverse Effects: | No further information available. |

13. DISPOSAL CONSIDERATIONS

| | |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Disposal: | Keep out of surface waters, sewers, and waterways entering or leading to surface waters. Notify authorities if any exposure to the environment occurs or is likely to occur. Utilize an appropriate disposal facility, in compliance with federal, state and local environmental control regulations. |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

14. TRANSPORTATION INFORMATION

| | |
|-----------------------|------------------------------------------------------------------------|
| DOT UN Status: | The material is not a regulated hazardous material for transportation. |
|-----------------------|------------------------------------------------------------------------|

15. REGULATORY INFORMATION



U.S. Federal Regulations

| | |
|-------------------------------------|-------------------------------------------------------------------------------|
| CERCLA: | No CERCLA reportable quantity has been established for this material. |
| TSCA: | All ingredients of this material are listed on the TSCA inventory. |
| SARA Title III | |
| Sections 302, 304, 313, 355: | This product does not contain any substances reportable under these sections. |
| Sections 311, 312: | |

| Hazard Classes | Yes/No |
|-----------------------|---------------|
| Fire Hazard | No |
| Reactivity Hazard | No |
| Pressure Hazard | No |
| Immediate Hazard | Yes |
| Delayed Hazard | No |

| International Inventory | Status |
|--------------------------------|---------------|
| Canada (DSL) | Yes |
| Europe (EINECS/ELINCS) | Yes |
| Australia (AICS) | Yes |
| Japan (MITI) | Yes |
| South Korea (KECL) | Yes |

16. OTHER INFORMATION

| | | |
|-----------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| NFPA Ratings (scale 0 – 4) | Health, 2 Flammability, 1 Reactivity, 0 Personal Protection, H |  |
| HMIS Ratings (scale 0 – 4) | Health, 2 Flammability, 1 Reactivity, 0 Personal Protection, H |  |

Key Legend Information

| | |
|-------------------------|--------------------------------------------------------------------|
| ACGIH | American Conference of Governmental Industrial Hygienists |
| ARD | International Agency for Research on Cancer |
| CAS | Chemical Abstract Service |
| CERCLA | Comprehensive Environmental Response, Compensation & Liability Act |
| DSL | Domestic Substance List |
| EC | European Commission |
| HMIS | Hazardous Materials Identification System |
| IARC | International Agency for Research on Cancer |
| ND | Not Determined |
| NE | Not Established |
| NFPA | National Fire Protection Association |
| NIOSH | National Institute for Occupational Safety & Health |
| NTP | National Toxicology Program |
| OSHA | Occupational Safety and Health Administration |
| PEL | Permissible Exposure Limit |
| RE | Repeat Exposure |
| SARA | Superfund Amendments & Reauthorization Act |
| SARA Title III | Emergency Planning & Community Right to Know Act |
| SARA Section 302 | Extremely Hazardous Substances |
| SARA Section 304 | Emergency Release |
| SARA Section 311 | MSDS/List of Chemicals & Hazardous Inventory |
| SARA Section 312 | Emergency & Hazardous Inventory |
| SARA Section 313 | Toxic Chemicals & Release Reporting |
| SE | Single Exposure |
| STEL | Short Term Exposure Limit |
| STOT | Specific Target Organ Toxicity |
| TLV | Threshold Limit Value |
| TWA | Time Weighted Average |

Disclaimer: The information contained herein is based on data taken from sources believed to be both current and reliable at the time of publication. Aremco Products, Inc. makes no warranty, expressed or implied, as to the accuracy of this MSDS and assumes no liability arising from its use by others. Compliance with all applicable Federal, State and Local laws and regulations remains the responsibility of the user.

SAFETY DATA SHEET

Product: CP2050-NF-B
Revision Date: 6/01/2015

1. MATERIAL IDENTIFICATION

Product Name: Corr-Paint CP2050-NF-B Base Resin

Product Description: Epoxy Resin Mixture, Dark Red Paste, Aromatic Odor
Product Use: High Performance Adhesive Resin

Manufacturer: Aremco Products, Inc.
707-B Executive Blvd.
Valley Cottage, NY 10989

Telephone: 845-268-0039
Emergency Phone: 845-268-0039 or Infotrac (24/7) 800-535-5053

2. HAZARDS IDENTIFICATION

GHS Classification:

Aquatic Chronic Category 2
Eye Irritation Category 2A
Skin Irritation Category 2
Skin Sensitization Category 1

GHS Label Elements:



GHS Signal Word:

Warning

GHS Hazard Determining Component:

Epoxy Phenol Novolac Resin
Bisphenol A Diglycidyl Ether Resin

GHS Hazard Statements for Health Hazards:

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.

GHS Precautionary Statements - Prevention:

P261 Avoid breathing vapors.
P264 Wash hands thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves.

GHS Precautionary Statements – Response:

P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P332+P313 If skin irritation occurs, get medical attention.
P362 Take off contaminated clothing and wash before reuse.
P391 Collect spillage.

GHS Storage/Disposal:

P405 Store locked up.
P501 Dispose in accordance with local, regional, national or international regulations.

3. COMPOSITION

| Chemical Name | CAS No. | EC No. | Concentration | GHS Product Identifier |
|------------------------------------|------------|-----------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Epoxy Phenol Novolac Resin | 25068-38-6 | 500-033-5 | 25.0-50.0% | H315 Skin Corrosion/Irritation, Cat 2 H317 Sensitization, Skin, Cat 1 H319 Eye Damage/Irritation, Cat 2A |
| Calcium Carbonate | 1317-65-3 | 215-279-6 | 25.0-50.0% | None |
| Bisphenol A Diglycidyl Ether Resin | 25068-38-6 | 500-033-5 | 10.0-25.0% | H315 Skin Corrosion/Irritation, Cat 2 H317 Sensitization, Skin, Cat 1 H319 Eye Damage/Irritation, Cat 2A H411 Aquatic Chronic, Cat 2 |
| Iron Oxide Red | 1309-37-1 | 215-168-2 | 2.5-10.0% | H371 STOT, RE; Respiratory Tract Irritation, Cat 2 |
| Silica, Hydrophobic Amorphous | 67762-90-7 | 614-122-2 | 2.5-10.0% | None |

Note

This product is a liquid mixture and all powders are encapsulated.

4. FIRST AID MEASURES

Eye Exposure:

Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek immediate medical attention, preferably with an ophthalmologist. If a physician is not immediately available, eye irrigation should be continued for an additional 15 minutes.

Skin Exposure:

Immediately wipe excess material off skin with a dry cloth then wash with plenty of soap and water for at least 5 minutes. See medical attention if irritation develops or persists. Remove contaminated clothing and shoes and clean thoroughly before re-use.

Inhalation:

Remove from immediate source of exposure and assure that victim is breathing. If not breathing, administer cardio-pulmonary resuscitation (CPR). If breathing is difficult, administer oxygen if available. Seek medical attention. Symptoms can be delayed several hours.

Ingestion:

If swallowed, do not induce vomiting. If victim is conscious and alert, give 1-2 glasses of milk or water to drink. Do not give anything by mouth to an unconscious person. Seek medical attention immediately. Do not leave victim unattended. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. Vomiting may occur spontaneously. If vomiting occurs and the victim is conscious, give additional milk or water to further dilute the chemical.

Medical Conditions Possibly Aggravated by Exposure:

Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis. Skin contact may aggravate existing skin disease.

5. FIRE FIGHTING MEASURES

Extinguishing Media:

Use carbon dioxide, dry chemical, or appropriate foam.

Special Fire Fighting Procedures:

Firefighters should wear NIOSH/MSHA approved positive pressure breathing apparatus with full face-piece and full chemical resistant protective clothing. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later. Extreme heat or water contamination may cause closed containers to explode.

6. ACCIDENTAL RELEASE MEASURES

Personal Protection:

Wear chemical goggles, body-covering protective clothing, chemical resistant gloves, and rubber boots. Use NIOSH approved respirator where mist occurs.

Spill Cleanup:

Mop up liquid and dispose in accordance with federal, state and local regulations or permits. Flush area with solvent then water to complete cleanup.

7. HANDLING AND STORAGE

Handling:

Avoid contact with eyes, skin and clothing. Avoid breathing vapors. Keep container closed. Promptly clean residue from closures with cloth and solvent. Promptly clean up spills.

Storage:

Store at room temperature in a dry, well ventilated area, away from combustible material, and away from ignition sources. Keep containers closed. Store in clean plastic or steel containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with limit values that require monitoring at the workplace:

| Chemical Name | CAS No. | EC No. | TLV (mg/m ³) | PEL (mg/m ³) |
|-------------------|-----------|-----------|--------------------------|--------------------------|
| Calcium Carbonate | 1317-65-3 | 215-279-6 | 10 | 15 |

| | |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Engineering Controls: | Normal ventilation for good working conditions should be used. Keep containers closed. Safety shower and eyewash fountain should be within direct access. |
| Respiratory Protection: | This product is not considered respirable in either the liquid or cured forms. However, if the cured product is polished, ground or chipped during processing, handling or use, powders may be released as airborne respirable particles. In these instances, appropriate personal protection equipment and local ventilation controls must be employed. If exposure limits are exceeded and local ventilation is unavailable, a supplied-air respirator or a self-contained NIOSH-approved vapor respirator is required. |
| Skin Protection: | Wear body-covering protective clothing and gloves. |
| Eye Protection: | Wear chemical goggles or face shield. |

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-------------------------------------------|----------------------------------------------|
| Form: | Paste |
| Color: | Dark Red |
| Odor: | Aromatic |
| Odor Threshold: | Not Determined |
| pH: | Not Determined |
| Melting Point Range: | Not Determined |
| Boiling Point Range: | Not Determined |
| Flash Point (Closed Cup): | 392 °F (200 °C) |
| Flammability (solid, gaseous): | Not Applicable |
| Decomposition Temperature: | Not Determined |
| Auto Igniting: | Product is not self-igniting |
| Danger of Explosion: | Product does not present an explosion hazard |
| Explosion Limits | |
| Lower: | Not Determined |
| Upper: | Not Determined |
| Vapor Pressure (mm Hg): | < 1 @ 25 °C |
| Density: | 1.8 g/cc @ 20 °C |
| Relative Density: | Not Determined |
| Vapor Density: | Not Determined |
| Evaporation Rate: | Not Determined |
| Solubility in / Miscibility Water: | Not miscible or difficult to mix |
| Partition Coefficient | |
| (n-Octanol/Water): | Not Determined |
| Viscosity, Dynamic: | Not Determined |
| Viscosity, Kinematic: | Not Determined |
| Volatile Organic Compounds: | 0.00 g/l |

10. STABILITY AND REACTIVITY

| | |
|------------------------------------------|---------------------------------------------------------------------|
| Chemical Stability: | This material is stable under normal conditions of use and storage. |
| Conditions to Avoid: | Reacts with amines and strong oxidizing agents. |
| Hazardous Polymerization: | Will not occur. |
| Hazardous Decomposition Products: | Carbon monoxide, carbon dioxide and other organic substances. |

11. TOXICOLOGICAL INFORMATION

| | |
|------------------------|------------------------------------------------------------|
| Acute Toxicity: | CAS No. 28064-14-4 Epoxy Phenol Novolac Resin |
| | Oral LD50 >2000 mg/kg (rat) |
| | Dermal LD50 >2000 mg/kg (rabbit) |
| | Primary Irritant Effect: |
| | Skin: Irritant to skin and mucous membranes |
| | Eye: Irritating effect |
| | Sensitization: Sensitization possible through skin contact |

| | | |
|---------------------------------|------|--------------------------------------|
| Carcinogenic Categories: | IARC | CAS No. 1309-37-1, Iron Oxide Red, 3 |
| | NTP | None of the ingredients is listed |
| | OSHA | None of the ingredients is listed |

12. ECOLOGICAL INFORMATION

| | |
|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Aquatic Toxicity: | No further relevant information available. |
| Persistence & Degradability: | No further relevant information available. |
| Bioaccumulative Potential: | No further relevant information available. |
| Mobility in Soil: | No further relevant information available. |
| Ecotoxicity: | Toxic for fish. |
| General Notes: | Water hazard class 2 (self-assessment): Hazardous for water. Do not allow product to reach ground water, water course or sewage system. Dangerous to drinking water even if small quantities leak into the ground. Poisonous to fish and plankton. Toxic to aquatic organisms. |
| Results of PBT & vPvB Assessment: | |
| PBT: | Not applicable. |
| vPvB: | Not applicable |
| Other Adverse Effects: | No further information available. |

13. DISPOSAL CONSIDERATIONS

| | |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Disposal: | Keep out of surface waters, sewers, and waterways entering or leading to surface waters. Notify authorities if any exposure to the environment occurs or is likely to occur. Utilize an appropriate disposal facility, in compliance with federal, state and local environmental control regulations. |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

14. TRANSPORTATION INFORMATION

| | |
|-----------------------|------------------------------------------------------------------------|
| DOT UN Status: | The material is not a regulated hazardous material for transportation. |
|-----------------------|------------------------------------------------------------------------|

15. REGULATORY INFORMATION

U.S. Federal Regulations

| | |
|----------------|-----------------------------------------------------------------------|
| CERCLA: | No CERCLA reportable quantity has been established for this material. |
|----------------|-----------------------------------------------------------------------|

| | |
|--------------|--------------------------------------------------------------------|
| TSCA: | All ingredients of this material are listed on the TSCA inventory. |
|--------------|--------------------------------------------------------------------|

SARA Title III



| | |
|--------------------------------|-------------------------------------------------------------------------------|
| Sections 302, 304, 313: | This product does not contain any substances reportable under these sections. |
|--------------------------------|-------------------------------------------------------------------------------|

Sections 311, 312:

| <u>Hazard Classes</u> | <u>Yes/No</u> |
|-----------------------|---------------|
| Fire Hazard | No |
| Reactivity Hazard | No |
| Pressure Hazard | No |
| Immediate Hazard | Yes |
| Delayed Hazard | No |

| <u>International Inventory</u> | <u>Status</u> |
|--------------------------------|---------------|
| Canada (DSL) | Yes |
| Europe (EINECS/ELINCS) | Yes |
| Australia (AICS) | Yes |
| Japan (MITI) | Yes |
| South Korea (KECL) | Yes |

16. OTHER INFORMATION

| | | |
|-----------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| NFPA Ratings (scale 0 – 4) | Health, 2 Flammability, 1 Reactivity, 0 Personal Protection, H |  |
| HMIS Ratings (scale 0 – 4) | Health, 2 Flammability, 1 Reactivity, 0 Personal Protection, H |  |

Key Legend Information

| | |
|-------------------------|--------------------------------------------------------------------|
| ACGIH | American Conference of Governmental Industrial Hygienists |
| ARD | International Agency for Research on Cancer |
| CAS | Chemical Abstract Service |
| CERCLA | Comprehensive Environmental Response, Compensation & Liability Act |
| DSL | Domestic Substance List |
| EC | European Commission |
| HMIS | Hazardous Materials Identification System |
| IARC | International Agency for Research on Cancer |
| ND | Not Determined |
| NE | Not Established |
| NFPA | National Fire Protection Association |
| NIOSH | National Institute for Occupational Safety & Health |
| NTP | National Toxicology Program |
| OSHA | Occupational Safety and Health Administration |
| PEL | Permissible Exposure Limit |
| RE | Repeat Exposure |
| SARA | Superfund Amendments & Reauthorization Act |
| SARA Title III | Emergency Planning & Community Right to Know Act |
| SARA Section 302 | Extremely Hazardous Substances |
| SARA Section 304 | Emergency Release |
| SARA Section 311 | MSDS/List of Chemicals & Hazardous Inventory |
| SARA Section 312 | Emergency & Hazardous Inventory |
| SARA Section 313 | Toxic Chemicals & Release Reporting |
| SE | Single Exposure |
| STEL | Short Term Exposure Limit |
| STOT | Specific Target Organ Toxicity |
| TLV | Threshold Limit Value |
| TWA | Time Weighted Average |

Disclaimer: The information contained herein is based on data taken from sources believed to be both current and reliable at the time of publication. Aremco Products, Inc. makes no warranty, expressed or implied, as to the accuracy of this MSDS and assumes no liability arising from its use by others. Compliance with all applicable Federal, State and Local laws and regulations remains the responsibility of the user.