SAFETY DATA SHEET

1. MATERIAL IDENTIFICATION

Product Name: Aremco-Bond 2200-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 Toxicity: Category 4
- Skin Irritation: Category 2
- Skin Sensitization: Category 1
- Eye Irritation: Category 2A
- Respiratory, Acute Toxicity: Category 5
- Sensitization, Respiratory: Category 1

GHS Label Elements:

GHS Signal Word: Danger

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.
- H334: May cause allergy or asthma symptoms or breathing difficulties 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:
P301+P312    IF SWALLOWED: Call a poison center or doctor if you feel unwell.
P330     Rinse mouth.
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.

GHS Storage/Disposal:
P501     Dispose in accordance with local, regional, national or international regulations

3. COMPOSITION

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

Notes:
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:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>EC No.</th>
<th>TLV (mg/m³)</th>
<th>PEL (mg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Carbonate</td>
<td>1317-85-3</td>
<td>215-279-6</td>
<td>10</td>
<td>15</td>
</tr>
<tr>
<td>Benzyl Alcohol</td>
<td>100-51-6</td>
<td>202-859-9</td>
<td>10 ppm</td>
<td>10 ppm</td>
</tr>
</tbody>
</table>

**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:

<table>
<thead>
<tr>
<th>Hazard Classes</th>
<th>Yes/No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fire Hazard</td>
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<tr>
<td>Reactivity Hazard</td>
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</tr>
<tr>
<td>Pressure Hazard</td>
<td>No</td>
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<tr>
<td>Immediate Hazard</td>
<td>Yes</td>
</tr>
<tr>
<td>Delayed Hazard</td>
<td>No</td>
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International Inventory Status

<table>
<thead>
<tr>
<th>International Inventory</th>
<th>Status</th>
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<tbody>
<tr>
<td>Canada (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe (EINECS/ELINCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Australia (AICS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Japan (MITI)</td>
<td>Yes</td>
</tr>
<tr>
<td>South Korea (KECL)</td>
<td>Yes</td>
</tr>
</tbody>
</table>

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: 2200-B
Revision Date: 6/01/2015

1. MATERIAL IDENTIFICATION

Product Name: Aremco-Bond 2200-B Base Resin
Product Description: Epoxy Resin Mixture, Rust 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 Components:
Epoxy Phenol Novolac Resin
Bisphenol A Diglycidyl Ether Resin
Calcium Carbonate
Silica, Hydrophobic Amorphous

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:
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>EC No.</th>
<th>Concentration</th>
<th>GHS Product Identifier</th>
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<tbody>
<tr>
<td>Epoxy Phenol Novolac Resin</td>
<td>25068-38-6</td>
<td>500-033-5</td>
<td>25.0-50.0%</td>
<td>H315 Skin Corrosion/Irritation, Cat 2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>H317 Sensitization, Skin, Cat 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>H319 Eye Damage/Irritation, Cat 2A</td>
</tr>
<tr>
<td>Calcium Carbonate</td>
<td>1317-65-3</td>
<td>215-279-6</td>
<td>25.0-50.0%</td>
<td>None</td>
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<tr>
<td>Bisphenol A Diglycidyl Ether Resin</td>
<td>25068-38-6</td>
<td>500-033-5</td>
<td>10.0-25.0%</td>
<td>H315 Skin Corrosion/Irritation, Cat 2</td>
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<td>H317 Sensitization, Skin, Cat 1</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>H319 Eye Damage/Irritation, Cat 2A</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>H411 Aquatic Chronic, Cat 2</td>
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<tr>
<td>Silica, Hydrophobic Amorphous</td>
<td>67762-90-7</td>
<td>614-122-2</td>
<td>2.5-10.0%</td>
<td>None</td>
</tr>
</tbody>
</table>

**Notes:**
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:

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</tr>
</tbody>
</table>

**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:** Rust 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. TOXICOCLOGICAL INFORMATION

**Acute Toxicity:**

<table>
<thead>
<tr>
<th>Route</th>
<th>LD50/4h</th>
<th>LD50/24h</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>&gt;2000 mg/kg (rat)</td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td>&gt;2000 mg/kg (rabbit)</td>
<td></td>
</tr>
</tbody>
</table>

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

Ecotoxicity:  
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:

<table>
<thead>
<tr>
<th>Hazard Classes</th>
<th>Yes/No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fire Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Reactivity Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Pressure Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Immediate Hazard</td>
<td>Yes</td>
</tr>
<tr>
<td>Delayed Hazard</td>
<td>No</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>International Inventory</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canada (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe (EINECS/ELINCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Australia (AICS)</td>
<td>Yes</td>
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<tr>
<td>Japan (MITI)</td>
<td>Yes</td>
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<tr>
<td>South Korea (KECL)</td>
<td>Yes</td>
</tr>
</tbody>
</table>
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

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