MATERIAL SAFETY DATA SHEET

Product: Aremco-Bond 2150-A Activator

Revision Date: 1/03/2012

1. MATERIAL IDENTIFICATION

Product Name: Aremco-Bond 2150-A Activator

Product Description:Amine Mixture, Clear Amber, Slight OdorProduct 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. COMPOSITION

Ingredient	CAS#	ACGIH TLV (mg/m ³)	OSHA PEL (mg/m ³)
Modified Amine	68610-56-0	N/E	N/E
Bisphenol-A	80-05-7	N/E	N/E
Diethylene Triamine	111-40-0	1 ppm	1 ppm

Notes:

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

2) Exposure values shown for guidance only. Please follow applicable regulations.

3. HAZARDS IDENTIFICATION

Emergency Overview: Causes irritation to eyes, skin, and respiratory and digestive tracts.

Eye Contact: May cause eye irritation and swelling.

Skin Contact: May cause irritation and sensitization. Symptoms can be immediate or delayed several hours.

Inhalation Acute: Vapors may cause irritation and temporary or permanent sensitization.

Ingestion Acute: May cause irritation to mouth, esophagus, and stomach.

Physical: Spilled material is tacky, slippery, and difficult to remove from skin.

Other: Pre-existing skin sensitization may be aggravated by exposure to this product.

HMIS: Health: 2

Flammability: 1
Reactivity: 0
Personal Protection: H

4. FIRST AID MEASURES

Eve 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 chromic respiratory problems such as asthma, emphysema or bronchitis. Skin contact may aggravate existing skin disease.

5. FIRE FIGHTING MEASURES

Flash Point: > 200 °F (closed cup)
Flammable Limits: Not available.

Auto-Ignition Temperature: Not available.

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

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

Physical and chemical here represent typical properties of this product. Contact Technical Sales for exact specifications.

Appearance: Liquid Clear Amber

Odor: Slight Ammonia Odor

pH: N/D Specific Gravity, g/cc 0.96

Water Solubility: Slightly Soluble Boiling Point: N/D

Boiling Point: N/D **Vapor Pressure (mm Hg):** < 1 @ 25 °C

Vapor Density (air=1):> 1VOC Content, g/I:0.00

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 Data: Not available Chronic Toxicity Data: Not available

12. ECOLOGICAL INFORMATION

Ecotoxity: Not tested Environmental Fate: Not tested

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:

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: Health: 2

Flammability: 1 Reactivity: 0

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

HMIS Hazardous Materials Identification System

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 Permissable Exposure Limit
RTECS Registry of Toxic Effects of Chemical Substances

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

STEL Short Term Exposure Limit
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. Aremoo 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.

MATERIAL SAFETY DATA SHEET

Product: Aremco-Bond 2150-B Resin

Revision Date: 1/03/2012

1. MATERIAL IDENTIFICATION

Product Name: Aremco-Bond 2150-B Resin

Product Description: Epoxy Resin Mixture, Light Grey, Slight 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. COMPOSITION

Ingredient	CAS#	ACGIH TLV (mg/m ³)	OSHA PEL (mg/m ³)
Silica, Pyrogenic, Synthetic Amorphous	112945-52-5	3	6
Silicon Dioxide	7631-86-9	10	N/E
Epoxy Resin	25068-38-6	N/E	N/E

Notes:

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

2) Exposure values shown for guidance only. Please follow applicable regulations.

3. HAZARDS IDENTIFICATION

Emergency Overview: Causes irritation to eyes, skin, and respiratory and digestive tracts.

Eye Contact: May cause eye irritation and swelling.

Skin Contact: May cause irritation and sensitization. Symptoms can be immediate or delayed several hours.

Inhalation Acute: Vapors may cause irritation and temporary or permanent sensitization.

Ingestion Acute: May cause irritation to mouth, esophagus, and stomach.

Physical: Spilled material is tacky, slippery, and difficult to remove from skin.

Other: Pre-existing skin sensitization may be aggravated by exposure to this product.

Chronic Hazards: Silica:

This product contains crystalline silica; once inhaled, cristobalite can remain in the lungs causing scarring, stiffening and difficulty breathing. The most common type of silicosis develops following repeated inhalation over time. Repeated inhalation of crystalline silica can also increase the risks of developing respiratory cancer. Avoid dust creation. Do not inhale dusts from this product. Do not use compressed air or dry sweeping to remove dusts from the work area. Use wet clean-up methods to remove dusts. IARC and NTP classify respirable crystalline silica as a confirmed or known human carcinogen. Although OSHA has not promulgated a specific standard for crystalline silica, materials that contain >= 0.1% crystalline silica should be treated as a confirmed carcinogen for hazard

communication purposes.

HMIS: Health: 2

Flammability: 1
Reactivity: 0
Personal Protection: H

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 chromic respiratory problems such as asthma, emphysema or bronchitis. Skin contact may aggravate existing skin disease.

5. FIRE FIGHTING MEASURES

Flash Point: > 300 °F (closed cup)
Flammable Limits: Not available.

Auto-Ignition Temperature: Not available.

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

Engineering Controls: Normal ventilation for good working conditions should be used. Keep containers closed. Safety

shower and eyewash fountain should be within direct access.

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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

Physical and chemical here represent typical properties of this product. Contact Technical Sales for exact specifications.

Appearance:PasteColor:Light GreyOdor:Slight Ether Odor

pH: N/D

Specific Gravity, g/cc

Water Solubility:

Boiling Point Range:

Vapor Pressure (mm Hg):

1.6

Insoluble

N/D

< 1 @ 25 °C

Vapor Density (air=1): > 1 VOC Content, g/l: 0.00

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 Materials: Carbon monoxide, carbon dioxide, aldehydes, and other organic substances.

11. TOXICOLOGICAL INFORMATION

Epoxy Resins: Acute Oral LD₅₀ (Rat): 11.4 g/kg

Acute Dermal LD₅₀ (Rabbit): > 20 g/kg

Silica: This product contains crystalline silica; once inhaled, cristobalite can remain in the lungs causing

scarring, stiffening and difficulty breathing. The most common type of silicosis develops following repeated inhalation over time. Repeated inhalation of crystalline silica can also increase the risks of developing respiratory cancer. Although OSHA has not promulgated a specific standard for crystalline silica, materials that contain >= 0.1% crystalline silica should be treated as a confirmed

carcinogen for hazard communication purposes.

12. ECOLOGICAL INFORMATION

Ecotoxity: Not tested Environmental Fate: Not tested

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.

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Hazard Classes	Yes/No
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Reactivity Hazard	No
Pressure Hazard	No
Immediate Hazard	Yes
Delayed Hazard	No
International Inventory	Status
International Inventory Canada (DSL)	Status Yes
Canada (DSL)	Yes
Canada (DSL) Europe (EINECS/ELINCS)	Yes Yes

16. OTHER INFORMATION

NFPA: Health: 2 Flammability: 1

Reactivity: 0

Key Legend Information

ACGIH American Conference of Governmental Industrial Hygienists

ARD International Agency for Research on Cancer

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SARA Section 312 Emergency & Hazardous Inventory
SARA Section 313 Toxic Chemicals & Release Reporting

STEL Short Term Exposure Limit TLV Threshold Limit Value TWA Time Weighted Average

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