MATERIAL SAFETY DATA SHEET

Product: Aremco-Bond 2310-A Activator Revision Date: 1/03/2012

1. MATERIAL IDENTIFICATION

Product Name:	Aremco-Bond 2310-A Activator
Product Description:	Amine Mixture, Natural Color, 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. COMPOSITION

Ingredient	CAS #	ACGIH TLV (mg/m ³)	OSHA PEL (mg/m ³)
Polyamide Resin	N/A	N/E	N/E
Triethylene Tetramine	112-24-3	N/E	N/E
Calcium Carbonate	471-34-1	10	10
Silica, Pyrogenic, Synthetic Amorphous	112945-52-5	3	6

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: Flammability: Reactivity: Personal Protection:	2 1 0 H

4. FIRST AID MEASURES

Eye Exposure:

Hold evelids 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:

5. FIRE FIGHTING MEASURES

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

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
Spill Cleanup:	boots. Use NIOSH approved respirator where mist occurs. 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.

Liquid
Natural
Slight Ammonia Odor
N/D
1.4
Slightly Soluble
N/D
< 1 @ 25 °C
> 1
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: Environmental Fate: Not tested 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 Fire Hazard Reactivity Hazard Pressure Hazard Immediate Hazard Delayed Hazard	Yes/No No No Yes No
International Inventory Canada (DSL) Europe (EINECS/ELINCS) Australia (AICS) Japan (MITI) South Korea (KECL)	Status Yes Yes Yes Yes Yes

16. OTHER INFORMATION

NFPA:	Health:	2
	Flammability:	1
	Reactivity:	0

Key Legend Information

NDNot DeterminedNDNot DeterminedNENot EstablishedNFPANational Fire Protection AssociationNIOSHNational Institute for Occupational Safety & HealthNTPNational Institute for Occupational Safety & HealthOSHAOccupational Safety and Health AdministrationPELPermissable Exposure LimitRTECSRegistry of Toxic Effects of Chemical SubstancesSARASuperfund Amendments & Reauthorization ActSARA Section 302Extremely Hazardous SubstancesSARA Section 304Emergency ReleaseSARA Section 312Emergency & Hazardous InventorySARA Section 313Toxic Chemicals & Release ReportingSTELShort Term Exposure LimitTLVThreshold Limit Value	NE NFPA NIOSH NTP OSHA PEL RTECS SARA SARA Title III SARA Section 302 SARA Section 304 SARA Section 311 SARA Section 311 SARA Section 313 STEL	Not Established National Fire Protection Association National Institute for Occupational Safety & Health National Toxicology Program Occupational Safety and Health Administration Permissable Exposure Limit Registry of Toxic Effects of Chemical Substances Superfund Amendments & Reauthorization Act Emergency Planning & Community Right to Know Act Extremely Hazardous Substances Emergency Release MSDS/List of Chemicals & Hazardous Inventory Emergency & Hazardous Inventory Toxic Chemicals & Release Reporting Short Term Exposure Limit
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MATERIAL SAFETY DATA SHEET

Product: Aremco-Bond 2310-B Resin Revision Date: 1/03/2012

1. MATERIAL IDENTIFICATION

Product Name:	Aremco-Bond 2310-B Resin
Product Description:	Epoxy Resin Mixture, Black, 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)
Epoxy Resin	25068-38-6	N/E	N/E
Calcium Carbonate	471-34-1	10	10
Carbon Black	1333-86-4	3.5	3.5
Silica, Pyrogenic, Synthetic Amorphous	112945-52-5	3	6

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: Flammability: Reactivity: Personal Protection:	2 1 0 H

4. FIRST AID MEASURES

Eye Exposure:

Hold evelids 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:

5. FIRE FIGHTING MEASURES

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

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
Spill Cleanup:	boots. Use NIOSH approved respirator where mist occurs. 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: Eye Protection:	Wear body-covering protective clothing and gloves. 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:	Paste
Color:	Black
Odor:	Slight Ether Odor
pH:	N/D
Specific Gravity, g/cc	1.4
Water Solubility:	Insoluble
Boiling Point:	N/D
Vapor Pressure (mm Hg):	< 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 LD ₅₀ (Rat): 11.4 g/kg
	Acute Dermal LD ₅₀ (Rabbit): > 20 g/kg

12. ECOLOGICAL INFORMATION

Ecotoxity: Environmental Fate: Not tested 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:

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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 Fire Hazard Reactivity Hazard Pressure Hazard Immediate Hazard Delayed Hazard	Yes/No No No Yes No
International Inventory Canada (DSL) Europe (EINECS/ELINCS) Australia (AICS) Japan (MITI) South Korea (KECL)	Status Yes Yes Yes Yes

16. OTHER INFORMATION

NFPA:	Health:	2
	Flammability:	1
	Reactivity:	0

Key Legend Information

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