# **SAFETY DATA SHEET**

**Product:** 2315X-A Revision Date: 6/01/2015

# 1. MATERIAL IDENTIFICATION

Product Name: Aremco-Bond 2315X-A Activator

Product Description: Amine Liquid Mixture, Clear Amber, Amine 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:

Acute Toxicity, Dermal
Skin Corrosion
Category 1A
Skin Sensitization
Eye Damage/Irritation
Aquatic, Chronic
Category 1
Category 1
Category 1

### GHS Label Elements:







# GHS Signal Word:

Danger

### GHS Hazard Determining Component:

Tetrahydromethylphthalic Anhydride

Benzyldimethylamine

### GHS Hazard Statements for Health Hazards:

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H333 May be harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

### GHS Precautionary Statements - Prevention:

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves.

P285 In case of inadequate ventilation wear respiratory protection.

P272 Contaminated work clothing should not be allowed out of the workplace.

### 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.

P302 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 easy to do and continue rinsing.

P310 Immediately call a poison center or doctor.

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

Chemical Name	CAS No.	EC No.	Concentration	GHS Product Identifier
Tetrahydromethylphthalic Anhydride	11070-44-3	234-290-7	75.0-95.0%	H317 Sensitization, Skin, Cat 1 H318 Eye Damage/Irritation, Cat 1 H334 Sensitization, Respiratory, Cat 1
Benzyldimethylamine	103-83-3	203-149-1	2.5-10.0%	H226 Flammable Liquid, Cat 3 H302 Acute Toxicity, Oral, Cat 4 H312 Acute Toxicity, Dermal, Cat 4 H314 Skin Corrosion//Irritation, Cat 1B H332 Acute Toxicity, Inhalation, Cat 4 H412 Aquatic Chronic, Cat 3

# 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

Extinguishing Media: Special Fire Fighting Procedures: Use carbon dioxide, dry chemical, or appropriate foam.

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.

Wear chemical goggles or face shield.

Chemical Name	CAS No.	EC No.	TLV (mg/m³)	PEL (mg/m³)
Engineering Controls:	· ·	ood working conditions sl	nould be used. Keep containe	rs closed. Safety shower and
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 pro	otective clothing and glove	es.	

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Liquid Form: Color: Clear Amber Odor: Amine-Like Odor Threshold: Not Determined pH: Not Determined Melting Point Range: Not Determined **Boiling Point Range:** Not Determined 214 °F (> 101 °C) Flash Point (Closed Cup): 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

Eye Protection:

Lower: 1.7 Vol % Upper: 10.5 Vol % Vapor Pressure (mm Hg): Not Determined Density: 1.2 g/cc @ 20 °C Not Determined Relative Density: Vapor Density: Not Determined Evaporation Rate: Not Determined Solubility in / Miscibility Water: Fully Miscible **Partition Coefficient** 

Viscosity, Vinematic:
Volatile Organic Compounds:

Not Determined
Not Determined
Not Determined
Not Determined
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 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: Primary Irritant Effect

Skin: No irritant effect

Eye: Strong irritant with the danger of severe eye injury
Sensitization: Sensitization possible through inhalation or skin contact

Additional: The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

Irritant

Carcinogenic Effects: 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:** Very toxic for fish.

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: 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	2H0
HMIS Ratings (scale 0 – 4)	Health, 2 Flammability, 1 Reactivity, 0 Personal Protection, H	H 2 E E E E E E E E E E E E E E E E E E

### **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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# SAFETY DATA SHEET

**Product:** 2315X-B Revision Date: 6/01/2015

# 1. MATERIAL IDENTIFICATION

Product Name: Aremco-Bond 2315X-B Base Resin

Product Description: Epoxy Resin Mixture, Black, 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:

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

### GHS Label Elements:



### GHS Signal Word:

Warning

## GHS Hazard Determining Components:

Bisphenol A Diglycidyl Ether Resin Aluminum Oxide Carbon Black, Amorphous

### GHS Hazard Statements for Health Hazards:

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

# GHS Precautionary Statements - Prevention:

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

P264 Wash hands thoroughly after handling

P280 Wear protective gloves.

P272 Contaminated work clothing should not be allowed out of the workplace

# 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

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses

if present and easy to do and continue rinsing If eye irritation persists, get medical attention

P362 Take off contaminated clothing and wash before reuse

## GHS Storage/Disposal:

P313+P337

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

# 3. COMPOSITION

Chemical Name	CAS No.	EC No.	Concentration	GHS Product Identifier
Bisphenol A Diglycidyl Ether 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 H411 Aquatic Chronic, Cat 2
Aluminum Oxide	1344-28-1	215-691-6	50.0-75.0%	None
Carbon Black, Amorphous	1333-86-4	215-609-9	< 1.0%	H313 May be Harmful in Contact With Skin, Cat 5 H351 Suspected of Causing Cancer, Cat 2

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

# 5. FIRE FIGHTING MEASURES

Extinguishing Media: Special Fire Fighting Procedures: Use carbon dioxide, dry chemical, or appropriate foam.

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.

Wear chemical goggles or face shield.

Chemical Name	CAS No.	EC No.	TLV (mg/m³)	PEL (mg/m³)
Engineering Controls:		nood working conditions should ld be within direct access.	d be used. Keep containers o	closed. Safety shower and
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 pro	otective clothing and gloves.		

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Paste Color: Black Odor: Aromatic Odor Threshold: Not Determined 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:

Eye Protection:

Lower:
Upper:
Not Determined
Not Determined
Vapor Pressure (mm Hg):
< 1 @ 25 °C

Density:
2.0 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: Storage temperatures above 100 °C

Hazardous Polymerization: Will not occur.

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

# 11. TOXICOLOGICAL INFORMATION

Acute Toxicity: Primary Irritant Effect:

Skin: Irritant to skin and mucous membranes

Eye: Irritating effect

Sensitization: Sensitization possible through skin contact

Additional: The product shows the following dangers according to internally approved calculation

methods for preparations:

Irritant

Carcinogenic Categories: IARC CAS No. 1333-86-4, Carbon Black, 2B

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

# 12. ECOLOGICAL INFORMATION

Aquatic Toxicity:

Persistence & Degradability:
Bioaccumulative Potential:

Mobility in Soil:

No further relevant information available.
No further relevant information available.
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.

Also poisonous to fish and plankton in water bodies.

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:

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	2H0
HMIS Ratings (scale 0 – 4)	Health, 2 Flammability, 1 Reactivity, 0 Personal Protection, H	H 2 E E E E E E E E E E E E E E E E E E

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PEL Permissible Exposure Limit

RE Repeat Exposure

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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.