

# SAFETY DATA SHEET

Product: 556-HTSP-A  
Revision Date: 6/01/2015

## 1. MATERIAL IDENTIFICATION

**Product Name:** Aremco-Bond 556-HTSP-A Activator  
**Product Description:** Amine Mixture, Silver, Amine Odor  
**Product Use:** High Performance Electrically Conductive 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:

Skin Corrosion	Category 1A
Skin Sensitization	Category 1
Eye Damage/Irritation	Category 1
Sensitization, Respiratory	Category 1
Toxic to Reproduction	Category 2
Aquatic, Chronic	Category 2

### GHS Label Elements:



**GHS Signal Word:**  
Danger

### GHS Hazard Determining Component:

4-Nonylphenol, Branched  
Hydroxy Modified Resin  
2-Ethyl-4-Methylimidazole

### GHS Hazard Statements for Health Hazards:

H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H361	Suspected of damaging fertility or the unborn child.
H411	Toxic to aquatic life with long lasting effects.

### GHS Precautionary Statements - Prevention:

P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash hands thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves, eye and face protection.
P285	In case of inadequate ventilation wear respiratory protection.

**GHS Precautionary Statements – Response:**

P301+P330+P331	IF SWALLOWED: Rinse mouth. Do not induce vomiting.
P303+P361+P353	IF ON SKIN: Remove immediately all contaminated clothing. Rinse skin with plenty of soap and water.
P333+P313	If skin irritation or rash occurs, get medical attention.
P363	Wash contaminated clothing before reuse.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. 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.
P308+P313	IF exposed or concerned: Get medical advice/attention.
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
4-Nonylphenol, Branched	84852-15-3	284-325-5	2.5-10.0%	H302 Acute Toxicity, Oral, Cat 4 H314 Skin Corrosion/Irritation, Cat 1B H361 Toxic to Reproduction, Cat 2 H400 Aquatic Acute, Cat 1 H410 Aquatic Chronic, Cat 1
2-Ethyl-4-Methylimidazole	931-36-2	213-234-5	2.5-10.0%	H302 Acute Toxicity, Oral, Cat 4 H317 Sensitization, Skin, Cat 1 H318 Eye Damage/Irritation, Cat 1
Hydroxy Modified Resin	68457-74-9	270-604-9	2.5-10.0%	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
Silver	7440-22-4	231-131-3	50.0-80.0%	None

**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

<b>Personal Protection:</b>	Wear chemical goggles, body-covering protective clothing, chemical resistant gloves, and rubber boots. Use NIOSH approved respirator where mist occurs.
<b>Spill Cleanup:</b>	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

<b>Handling:</b>	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.
<b>Storage:</b>	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 <sup>3</sup> )	PEL (mg/m <sup>3</sup> )

<b>Engineering Controls:</b>	Normal ventilation for good working conditions should be used. Keep containers closed. Safety shower and eyewash fountain should be within direct access.
<b>Respiratory Protection:</b>	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.
<b>Skin Protection:</b>	Wear body-covering protective clothing and gloves.
<b>Eye Protection:</b>	Wear chemical goggles or face shield.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form:</b>	Paste
<b>Color:</b>	Silver
<b>Odor:</b>	Amine Odor
<b>Odor Threshold:</b>	Not Determined
<b>pH:</b>	Not Determined
<b>Melting Point Range:</b>	Not Determined
<b>Boiling Point Range:</b>	201 °C (394 °F)
<b>Flash Point (Closed Cup):</b>	92 °C (198 °F)
<b>Flammability (solid, gaseous):</b>	Not Applicable
<b>Decomposition Temperature:</b>	Not Determined
<b>Ignition Temperature:</b>	> 450 °C (> 842 °F)
<b>Auto Igniting:</b>	Product is not self-igniting
<b>Danger of Explosion:</b>	Product does not present an explosion hazard
<b>Explosion Limits</b>	
<b>Lower:</b>	Not Determined
<b>Upper:</b>	Not Determined
<b>Vapor Pressure:</b>	Not Determined
<b>Density:</b>	3.4 g/cc @ 20 °C
<b>Relative Density:</b>	Not Determined
<b>Vapor Density:</b>	Not Determined
<b>Evaporation Rate:</b>	Not Determined
<b>Solubility in / Miscibility Water:</b>	Not miscible or difficult to mix
<b>Partition Coefficient</b> (n-Octanol/Water):	Not Determined
<b>Viscosity, Dynamic:</b>	Not Determined
<b>Viscosity, Kinematic:</b>	Not Determined
<b>Volatile Organic Compounds:</b>	0.0%

## 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:**  
**Primary Irritant Effect:** Skin: Caustic effect on skin and mucous membranes  
Eye: Strong caustic effect  
Sensitization: Sensitization possible through skin contact

**Additional Toxicological:** The product shows the following dangers according to internally approved calculation methods for preparations.  
Harmful  
Corrosive  
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

**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 3 (self-assessment): extremely hazardous for water.  
Do not allow product to reach ground water, water course or sewage system.  
Must not reach bodies of water or drainage ditch undiluted or unneutralized.  
Danger to drinking water if even small quantities leak into the ground.  
Also poisonous for fish and plankton in water bodies.  
Toxic for 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, 355:



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

Sections 311, 312:

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

<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

<b>NFPA Ratings (scale 0 – 4)</b>	Health, 3 Flammability, 1 Reactivity, 0 Personal Protection, H	
<b>HMIS Ratings (scale 0 – 4)</b>	Health, 3 Flammability, 1 Reactivity, 0 Personal Protection, H	

### Key Legend Information

<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists
<b>ARD</b>	International Agency for Research on Cancer
<b>CAS</b>	Chemical Abstract Service
<b>CERCLA</b>	Comprehensive Environmental Response, Compensation & Liability Act
<b>DSL</b>	Domestic Substance List
<b>EC</b>	European Commission
<b>HMIS</b>	Hazardous Materials Identification System
<b>IARC</b>	International Agency for Research on Cancer
<b>ND</b>	Not Determined
<b>NE</b>	Not Established
<b>NFPA</b>	National Fire Protection Association
<b>NIOSH</b>	National Institute for Occupational Safety & Health
<b>NTP</b>	National Toxicology Program
<b>OSHA</b>	Occupational Safety and Health Administration
<b>PEL</b>	Permissible Exposure Limit
<b>RE</b>	Repeat Exposure
<b>SARA</b>	Superfund Amendments & Reauthorization Act
<b>SARA Title III</b>	Emergency Planning & Community Right to Know Act
<b>SARA Section 302</b>	Extremely Hazardous Substances
<b>SARA Section 304</b>	Emergency Release
<b>SARA Section 311</b>	MSDS/List of Chemicals & Hazardous Inventory
<b>SARA Section 312</b>	Emergency & Hazardous Inventory
<b>SARA Section 313</b>	Toxic Chemicals & Release Reporting
<b>SE</b>	Single Exposure
<b>STEL</b>	Short Term Exposure Limit
<b>STOT</b>	Specific Target Organ Toxicity
<b>TLV</b>	Threshold Limit Value
<b>TWA</b>	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: 556-HTSP-B  
Revision Date: 6/01/2015

## 1. MATERIAL IDENTIFICATION

**Product Name:** Aremco-Bond 556-HTSP-B Base Resin

**Product Description:** Epoxy Resin Mixture, Silver Paste, Aromatic Odor  
**Product Use:** High Performance Electrically Conductive 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  
Skin Irritation Category 2  
Skin Sensitization Category 1  
Oral, Acute Toxicity Category 5

### GHS Label Elements:



### GHS Signal Word:

Warning

### GHS Hazard Determining Component:

Epoxy Phenol Novolac Resin  
Silver

### GHS Hazard Statements for Health Hazards:

H303 May be harmful if swallowed.  
H313 May be harmful in contact with skin.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H411 Toxic to aquatic life with long lasting effects.

### GHS Precautionary Statements - Prevention:

P264 Wash hands thoroughly after handling.  
P280 Wear protective gloves.  
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.

### GHS Precautionary Statements - Response:

P312 IF SWALLOWED: Call a poison center or doctor if you feel unwell.  
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.  
P391 Collect spillage.

### GHS Storage/Disposal:

501 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
Silver	7440-22-4	231-131-3	50.0-80.0%	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 <sup>3</sup> )	PEL (mg/m <sup>3</sup> )

<b>Engineering Controls:</b>	Normal ventilation for good working conditions should be used. Keep containers closed. Safety shower and eyewash fountain should be within direct access.
<b>Respiratory Protection:</b>	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.
<b>Skin Protection:</b>	Wear body-covering protective clothing and gloves.
<b>Eye Protection:</b>	Wear chemical goggles or face shield.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form:</b>	Paste
<b>Color:</b>	Silver
<b>Odor:</b>	Aromatic
<b>Odor Threshold:</b>	Not Determined
<b>pH:</b>	Not Determined
<b>Melting Point Range:</b>	Not Determined
<b>Boiling Point Range:</b>	Not Determined
<b>Flash Point (Closed Cup):</b>	> 392 °F (> 200 °C)
<b>Flammability (solid, gaseous):</b>	Not Applicable
<b>Decomposition Temperature:</b>	Not Determined
<b>Auto Igniting:</b>	Product is not self-igniting
<b>Danger of Explosion:</b>	Product does not present an explosion hazard
<b>Explosion Limits</b>	
<b>Lower:</b>	Not Determined
<b>Upper:</b>	Not Determined
<b>Vapor Pressure (mm Hg):</b>	< 1 @ 25 °C
<b>Density:</b>	2.8 g/cc @ 20 °C
<b>Relative Density:</b>	Not Determined
<b>Vapor Density:</b>	Not Determined
<b>Evaporation Rate:</b>	Not Determined
<b>Solubility in / Miscibility Water:</b>	Not miscible or difficult to mix
<b>Partition Coefficient</b>	
<b>(n-Octanol/Water):</b>	Not Determined
<b>Viscosity, Dynamic:</b>	Not Determined
<b>Viscosity, Kinematic:</b>	Not Determined
<b>Volatile Organic Compounds:</b>	0.00 g/l

## 10. STABILITY AND REACTIVITY

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

## 11. TOXICOLOGICAL INFORMATION

<b>Acute Toxicity:</b>	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



<b>Carcinogenic Categories:</b>	IARC	None of the ingredients is listed
	NTP	None of the ingredients is listed
	OSHA	None of the ingredients is listed

## 12. ECOLOGICAL INFORMATION

<b>Aquatic Toxicity:</b>	No further relevant information available.
<b>Persistence &amp; Degradability:</b>	No further relevant information available.
<b>Bioaccumulative Potential:</b>	No further relevant information available.
<b>Mobility in Soil:</b>	No further relevant information available.
<b>Ecotoxicity:</b>	Toxic for fish.
<b>General Notes:</b>	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.
<b>Results of PBT &amp; vPvB Assessment:</b>	
<b>PBT:</b>	Not applicable.
<b>VPvB:</b>	Not applicable
<b>Other Adverse Effects:</b>	No further information available.

## 13. DISPOSAL CONSIDERATIONS

<b>Disposal:</b>	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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## 14. TRANSPORTATION INFORMATION

<b>DOT UN Status:</b>	The material is not a regulated hazardous material for transportation.
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## 15. REGULATORY INFORMATION

### U.S. Federal Regulations

<b>CERCLA:</b>	No CERCLA reportable quantity has been established for this material.
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<b>TSCA:</b>	All ingredients of this material are listed on the TSCA inventory.
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### **SARA Title III**



<b>Sections 302, 304, 313:</b>	This product does not contain any substances reportable under these sections.
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### **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

<b>NFPA Ratings (scale 0 – 4)</b>	Health, 2 Flammability, 1 Reactivity, 0 Personal Protection, H	
<b>HMIS Ratings (scale 0 – 4)</b>	Health, 2 Flammability, 1 Reactivity, 0 Personal Protection, H	

### Key Legend Information

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