

# MATERIAL SAFETY DATA SHEET

**Product:** HiE-Coat 840-M  
**Revision Date:** 1/03/2012

## 1. MATERIAL IDENTIFICATION

**Product Name:** HiE-Coat 840-M

**Product Description:** Black, Solvent Odor, Liquid  
**Product Use:** High Temperature Coating

**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 <sup>3</sup> )	OSHA PEL (mg/m <sup>3</sup> )
Alumino-Silicate	1332-58-7	N/E	N/E
Silicate Solution	1344-09-8	N/E	N/E
Mica	12001-26-2	N/A	N/A
Copper Chromite Black Spinel	68186-91-4	.5	.5
Water	7732-18-5	N/A	N/A
Silicone Emulsion Mixture	N/D	N/E	N/E
Xylene (5-10%)	1330-20-7	435	435
Methanol (0.5-0.99%)	67-56-1	325	325
1-Propanol, 2-Methyl- (2-3%)	78-83-1	150	310
Formaldehyde (0.002%)	50-00-0	.6	N/D
Acetic Acid, Butyl Ester (< 0.1%)	123-86-4	N/D	N/D
Benzene, Ethyl (< 3%)	100-41-4	N/D	N/D

**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:** Black liquid, solvent odor. May cause moderate irritation to eyes, skin, and digestive tract.

**Eye Contact:** Prolonged and repeated exposure may cause irritation to the eyes.

**Skin Contact:** No harmful effects have been reported on skin contact.

**Inhalation Acute:** No harmful effects have been reported upon inhalation.

**Ingestion Acute:** No harmful effects have been reported upon ingestion.

**Primary Routes of Entry:** Eyes.

**Target Organs:** Eyes.

**HMIS:** Health: 1  
Flammability: 1  
Reactivity: 0  
Personal Protection: J

#### 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 place in fresh air; assure that victim is breathing. If not breathing, administer cardio-pulmonary resuscitation (CPR). If breathing is difficult, administer oxygen if available. Seek medical attention.

**Ingestion:**

Drink large quantities of water and induce vomiting (one tablespoon of salt in one glass of warm water). Do not allow vomit to be inhaled into the lungs. Seek medical attention immediately

**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

**Flash Point:**

> 200 °F

**Flammable Limits:**

Not measured.

**Extinguishing Media:**

Foam, carbon dioxide, dry powder, 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.

**Unusual Fire and Explosion Hazards:** This material can release carbon monoxide, carbon dioxide, and silicon dioxide.

#### 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:**

Ensure adequate ventilation. Take up with absorbent material (e.g., sand). Dispose of absorbed material in accordance with federal, state and local regulations or permits. Flush area with water to complete cleanup.

#### 7. HANDLING AND STORAGE

**Handling:**

Ensure adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid breathing spray mist. Keep container closed. Promptly clean residue from closures with cloth dampened with water. Promptly clean up spills.

**Storage:**

Store in an area that is cool, dry, well ventilated, away from combustible material, and away from ignition sources. Keep containers closed. Store in clean plastic or stainless steel containers.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls:**

Use with adequate ventilation. 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 dust and mist respirator is required.

**Skin Protection:**

Wear body-covering protective clothing and gloves. A protective glove made of fluorinated rubber is recommended.

**Eye Protection:**

Wear chemical goggles.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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

<b>Appearance:</b>	Liquid
<b>Color:</b>	Black
<b>Odor:</b>	Solvent
<b>pH:</b>	> 8
<b>Specific Gravity, g/cc</b>	1.5
<b>Water Solubility:</b>	Miscible
<b>Melting Point:</b>	Not measured
<b>Boiling Point:</b>	212 °F
<b>Vapor Pressure:</b>	Not measured
<b>Vapor Density (air=1):</b>	Not available
<b>VOC Content:</b>	0.15 lb/gal

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability:</b>	This material is stable under all conditions of use and storage.
<b>Conditions to Avoid:</b>	Contact with strong oxidizing agents.
<b>Materials to Avoid:</b>	Reacts with oxidizing agents.
<b>Hazardous Decomposition Products:</b>	None with proper storage and handling.
<b>Hazardous Polymerization:</b>	Will not occur.

## 11. TOXICOLOGICAL INFORMATION

<b>Note:</b>	Due to the composition of the product it cannot be excluded that prolonged and repeated contact will result in irritation of the eyes. Proper use provided, no adverse health effects have been observed or have come to our attention.
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## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity:</b>	Not tested, but should not be allowed to enter soil or waterways.
<b>Environmental Fate:</b>	Not tested.

## 13. DISPOSAL CONSIDERATIONS

<b>Disposal Method:</b>	Dispose in accordance with federal, state and local regulations and permits.
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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>	<b>CAS No.</b>	<b>Lbs</b>
	1330-20-0	100
	50-00-0	100
	71-36-3	500
	78-83-1	500

<b>TSCA:</b>	All ingredients of this material are listed on the TSCA inventory.
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<b>SARA Section 313:</b>	<b>Components</b>	<b>CAS No.</b>	<b>Concentration (%)</b>
	1-Butanol	71-36-3	0-0 (0.0003)
	Methanol	67-56-1	0-0 (0.87)
	Xylenes (o-, m-, p- Isomers)	1330-20-7	0-0 (7.27)
	Formaldehyde	50-00-0	0-0 (0.002)
	Ethylbenzene	100-41-4	0-0 (2.42)

<b>SARA Sections 311, 312</b>	<b>Hazard Classes</b>
	Fire Yes
	Reactivity No
	Pressure No
	Immediate No
	Delayed No

<b>International Inventory</b>	<b>Country</b>
	Canada (DSL) Yes
	Europe (EINECS/ELINCS) Yes
	Australia (AICS) Yes
	Japan (MITI) Yes
	South Korea (KECL) Yes

## 16. OTHER INFORMATION

<b>NFPA:</b>	Health:	1
	Flammability:	1
	Reactivity:	0

### 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>HMIS</b>	Hazardous Materials Identification System
<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>RTECS</b>	Registry of Toxic Effects of Chemical Substances
<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>STEL</b>	Short Term Exposure Limit
<b>TLV</b>	Threshold Limit Value
<b>TWA</b>	Time Weighted Average

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