

MATERIAL SAFETY DATA SHEET

Metzger/McGuire Page: 4 of 4 (Armor-Hard Extreme Part A)  
 Concord, NH 03302 Date Prepared: 09/13/06  
 Telephone: (800) 223-6680 Revision Number: 1

Section 14 - Transport Information

DOT Non-Bulk Shipping Name: Resin compound - not regulated  
 UN#: Not regulated  
 DOT Bulk Shipping Name: Resin compound - not regulated  
 Packing Group: Not regulated  
 Technical Shipping Name: NMFC Item 46030, Class 55  
 IMO Shipping Data: Resin compound - not regulated  
 DOT Hazard Class: Not regulated  
 ICAO/IATA Shipping Data: Resin compound - not regulated

Section 15 - Regulatory Information

US FEDERAL REGULATIONS:

**Toxic Substances Control Act (TSCA):** All components are included in the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory or are not required to be listed on the TSCA Inventory.

**OSHA (29CFR1910.1200) Hazard Class(es):** Irritant. Sensitizer

**EPA Sara Title III Section 312 (40CFR370) Hazard Classes:** Immediate Health Hazard. Delayed Health Hazard.

**EPA Sara Title III Section 313 (40CFR372):** Toxic chemicals above "de minimus" level: None

STATE REGULATIONS:

**California Proposition 65 Substances:** (components known to the State of California to cause cancer and/or reproductive toxicity and subject to warning and discharge requirements under the "Safe Drinking Water and Toxic Enforcement Act of 1986"). None

INTERNATIONAL REGULATIONS

Canada: WHMIS Hazard Classification: Class D, division 2B  
 WHMIS Risk Phrases: Eye or skin irritant. Skin sensitizer.  
 WHMIS Symbols: Stylized T

Section 16 - Other Information

*To the best of our knowledge, the information contained herein is accurate. However, neither Metzger/McGuire nor any of its agents assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.*

Revision Date: 09/13/06 Replaces Revision Dated: N/A

MATERIAL SAFETY DATA SHEET

Metzger/McGuire Page: 1 of 4 (Armor-Hard Extreme Part A)  
 P. O. Box 2217 Date Prepared: 09/13/06  
 Concord, NH 03302 Revision Number: 1  
 Telephone: (800) 223-6680

Section 1 - Material Identification

Product Name: Armor-Hard Extreme (Resin)  
 Product Type: Epoxy Resin Compound  
 Emergency Number (s): (800) 255-3924 24 hrs. (Continental U.S.)  
 (813) 248-0585 24 hrs. (Outside Continental U.S.)  
 Revision Notes: Section 3

Section 2 - Hazardous Ingredients

#	wt %	CAS Number	Chemical Name
1.	> 1 %	Trade Secret	Epoxy Resin

OSHA & ACGIH EXPOSURE LIMITS

	TWA		STEL		CEILING	
	ppm	mg/m3	Ppm	mg/m3	Ppm	mg/m3
1. OSHA	N/E	N/E	N/E	N/E	N/E	N/E
ACGIH	N/E	N/E	N/E	N/E	N/E	N/E

N/E = Not Established

Section 3 - Health Hazards

EMERGENCY OVERVIEW

HMIS HEALTH RATING: 2 FLAMMABILITY: 1 REACTIVITY: 0

HMIS Hazard Rating \ Least - 0 Slight - 1 Moderate - 2 High - 3 Extreme - 4

A cloudy, white liquid with a slight "sweet" odor. Causes eye and skin irritation. Can burn in fire, releasing possible hazardous vapors, gases and fumes. Do not burn or weld on cured epoxy. Hazardous fumes and vapors may be released.

**Routes of Exposure:** Eye Contact, Skin Contact, Ingestion.

**Health Hazards:** May cause eye irritation. May cause skin sensitization. Moderate skin irritant.

**Target Organs:** Eyes, Skin.

**Signs and Symptoms of Exposure (Acute Effects):** Contact with skin or eyes causes irritation, redness and discomfort.

**Signs and Symptoms of Exposure (Possible Longer Term Effects):** Repeated and/or prolonged exposure may cause allergic reaction/ sensitization. Repeated and/or prolonged exposure may result in adverse eye effects (such as conjunctivitis or corneal damage), adverse skin effects (such as rash, irritation or corrosion).

**Medical Conditions Generally Aggravated by Exposure:** Eye disease, skin disorders and allergies.

**Carcinogens under OSHA, ACGIH, NTP, IARC, other:** This product contains no carcinogens in concentrations of 0.1 percent or greater.

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Metzger/McGuire Page: 2 of 4 (Armor-Hard Extreme Part A)
Concord, NH 03302 Date Prepared: 09/13/06
Telephone: (800) 223-6680 Revision Number: 1

Section 4 - First Aid

Eye Contact: Hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention.
Skin Contact: Remove contaminated clothing/shoes and wipe excess from skin. Flush skin with water. Follow by washing with soap and water.
Inhalation: Remove victim to fresh air and provide oxygen.
Ingestion: If swallowed, call physician immediately.

Section 5 - Fire and Explosion Data

Flash Point (closed cup): > 200 °F
Upper Explosion Limit (UEL): No data
Auto Ignition Temperature: No data
Lower Explosion Limit (LEL): No data
Fire Hazard Classification (OSHA/NFPA): This product is not considered flammable nor combustible, but will burn if involved in a fire.
Extinguishing Media: Foam, Carbon Dioxide (CO2), or dry chemical.
Special Fire Fighting Procedures: Keep personnel removed from area and upwind of fire.
Unusual Fire and Explosion Hazards: Hazardous combustion products may be present.

Section 6 - Accidental Release Measures

Containment Techniques (Removal of ignition sources, diking, etc.): Stop the leak, if possible.
Clean-Up Procedures: Spread absorbent material over area. Wipe or scrape up material.
Other Emergency Advice: Wear protective clothing, boots, gloves, respirator, and eye protection.

Section 7 - Handling and Storage

Storage: Store in a cool (60-80 °F), dry, ventilated place.
Handling: Avoid contact with skin, eyes, or clothing.
Other Precautions: Wash thoroughly after handling.

MATERIAL SAFETY DATA SHEET

Metzger/McGuire Page: 3 of 4 (Armor-Hard Extreme Part A)
Concord, NH 03302 Date Prepared: 09/13/06
Telephone: (800) 223-6680 Revision Number: 1

Section 8 - Personal Protection/Exposure Controls

Eye Protection: Chemical safety goggles recommended.
Hand Protection: Chemical resistant gloves recommended.
Respiratory Protection: Not necessary under most operating conditions.
Protective Clothing: Clean, body covering clothing should be utilized.
Work and Hygienic Practices: Eye wash stations and safety showers should be easily accessible.

Section 9 - Typical Physical and Chemical Properties

Physical Form: Liquid Vapor Density: Heavier than air
Color: Cloudy, White Boiling Point: > 200 °F
Odor: Slight Sweet Melting Point: Not Applicable
pH: No Data Solubility in Water: Negligible
Vapor Pressure: No Data Specific Gravity: 1.15

Section 10 - Stability and Reactivity

Chemical Stability: Stable
Conditions to Avoid (if unstable): None
Incompatibility (Materials to Avoid): Acids, strong oxidizing agents.
Hazardous Decomposition Products: None
Hazardous Polymerization: Contact with epoxy hardeners under uncontrolled conditions.

Section 11 - Toxicological Properties

Acute Oral Toxicity (LD50, RAT): No data available.
Acute Dermal Toxicity (LD50, RABBIT): No data available.
Acute Inhalation Toxicity (LC50, RAT): No data available.

Section 12 - Ecological Information

No data available.

Section 13 - Disposal Considerations

Waste Disposal: This material does not contain any VOC's (volatile organic compounds). Dispose of material in accordance with applicable, local, state, and federal laws and regulations.

MATERIAL SAFETY DATA SHEET

Metzger/McGuire Co.  
 Concord, NH 033024473  
 Telephone: (800) 223-6680

Page: 4 of 4 (Armor-Hard Extreme Part B)  
 Date Prepared: 09/13/06  
 Revision Number: 1

Section 14 - Transport Information

DOT Non-Bulk Shipping Name: Caustic Alkali Liquids, N.O.S.  
 UN#: UN1719  
 DOT Bulk Shipping Name: Caustic Alkali Liquids, N.O.S.  
 Packing Group: III  
 Technical Shipping Name: Contains Aliphatic Amine & Polyamide  
 IMO Shipping Data: Caustic Alkali Liquid N.O.S.  
 DOT Hazard Class: 8  
 ICAO/IATA Shipping Data: Caustic Alkali Liquid N.O.S.

Section 15 - Regulatory Information

US FEDERAL REGULATIONS:

Toxic Substances Control Act (TSCA): All components are included in the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory or are not required to be listed on the TSCA Inventory.  
 OSHA (29CFR1910.1200) Hazard Class(es): Corrosive. Sensitizer.  
 EPA Sara Title III Section 312 (40CFR370) Hazard Classes: Immediate Health hazard. Delayed Health Hazard.  
 EPA Sara Title III Section 313 (40CFR372): Toxic chemicals above "de minimus" level: 4, 4' - Isopropylidenediphenol

STATE REGULATIONS:

California Proposition 65 Substances: (components known to the State of California to cause cancer and/or reproductive toxicity and subject to warning and discharge requirements under the "Safe Drinking Water and Toxic Enforcement Act of 1986"). None

INTERNATIONAL REGULATIONS

Canada: WHMIS Hazard Classification: Class D, Division 2A  
 Class D, Division 2B  
 Class E  
 WHMIS Risk Phrases: Causes burns. Skin Sensitizer. Lung sensitizer.  
 WHMIS Symbols: Stylized T, test tube/hand

Section 16 - Other Information

To the best of our knowledge, the information contained herein is accurate. However, neither Metzger/McGuire nor any of its agents assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.

Revision Date: 09/13/06

Replaces Revision Dated: N/A

MATERIAL SAFETY DATA SHEET

Metzger/McGuire  
 P. O. Box 2217  
 Concord, NH 03302  
 Telephone: (800) 223-6680

Page: 1 of 4 (Armor-Hard Extreme Part B)  
 Date Prepared: 09/13/06  
 Revision Number: 1

Section 1 - Material Identification

Product Name: Armor-Hard Extreme (Hardener)  
 Product Type: Epoxy Hardener Compound  
 Emergency Number (s): (800) 255-3924 24hrs. (Continental U.S.)  
 (813) 248-0585 24hrs. (Outside Continental U.S.)  
 Revision Notes: Section 3

Section 2 - Hazardous Ingredients

#	wt %	CAS Number	Chemical Name
1.	> 1 %	80-05-7	4, 4'-Isopropylidenediphenol
2.	> 1 %	111-40-0	Diethylenetriamine

OSHA & ACGIH EXPOSURE LIMITS

		TWA		STEL		CEILING	
		Ppm	Mg/m3	Ppm	mg/m3	Ppm	mg/m3
1.	OSHA	N/E	N/E	N/E	N/E	N/E	N/E
	ACGIH	N/E	N/E	N/E	N/E	N/E	N/E
2.	OSHA	1.0	4.0	N/E	N/E	N/E	N/E
	ACGIH	1.0	4.2	N/E	N/E	N/E	N/E

N/E = Not Established

Section 3 - Health Hazards

EMERGENCY OVERVIEW

HMIS HEALTH RATING: 3 FLAMMABILITY: 1 REACTIVITY: 0

HMIS Hazard Rating \ Least - 0 Slight - 1 Moderate - 2 High - 3 Extreme - 4

An yellow liquid with an amine odor. Corrosive to skin. Corrosive to eyes. Severe skin irritant. Severe eye irritant. May cause skin sensitization. May cause respiratory sensitization. Can burn in fire, releasing possible hazardous vapors, gases and fumes.

Do not burn or weld on cured epoxy. Hazardous fumes and vapors may be released.

Routes of Exposure: Eye Contact, Skin Contact, Inhalation, Ingestion.

Health Hazards: Corrosive to skin. Corrosive to eyes. Severe skin irritant. Severe eye irritant. May cause skin sensitization. May cause respiratory sensitization.

Target Organs: Eyes, Skin, and Respiratory System.

Signs and Symptoms of Exposure (Acute Effects): Burns of the eye may cause blindness. Contact of undiluted products with the eyes or skin quickly causes severe irritation and pain and may cause burns, necrosis, and permanent injury. Inhalation of mists may severely damage contacted tissue and produce scarring. Product is readily absorbed through the skin and may cause discomfort, injury or serious health unless treated properly.

**Signs and Symptoms of Exposure (Possible Longer Term Effects):** This substance may cause respiratory sensitization to exposed workers.

**Medical Conditions Generally Aggravated by Exposure:** Asthma, chronic respiratory disease (e.g. Bronchitis, emphysema). Eye disease, skin disorders and allergies.

### MATERIAL SAFETY DATA SHEET

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Concord, NH 03302  
Telephone: (800) 223-6680

Page: 2 of 4 (Armor-Hard Extreme Part B)  
Date Prepared: 09/13/06  
Revision Number: 1

#### Section 3 - Health Hazards (con't.)

**Carcinogens under OSHA, ACGIH, NTP, IARC, other:** This product contains no carcinogens in concentrations of 0.1 percent or greater.

#### Section 4 - First Aid

**Eye Contact:** Hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention.

**Skin Contact:** Remove contaminated clothing/shoes and wipe excess from skin. Immediately flush affected area with water for at least 15 minutes. Cover the affected area with a sterile dressing or clean sheeting and seek medical attention immediately. DO NOT APPLY GREASES OR OINTMENTS. Control shock if present.

**Inhalation:** Remove victim to fresh air and provide oxygen. If breathing is difficult, seek medical attention.

**Ingestion:** In the event of ingestion, administer 3-4 glasses of milk or water. DO NOT INDUCE VOMITING. Seek medical attention immediately.

#### Section 5 - Fire and Explosion Data

**Flash Point (closed cup):** > 200 °F

**Lower Explosion Limit (LEL):** No data

**Upper Explosion Limit (UEL):** No data

**Auto Ignition Temperature:** No data

**Fire Hazard Classification (OSHA/NFPA):** This product is considered neither flammable nor combustible, but will burn if involved in a fire.

**Extinguishing Media:** Foam, Carbon Dioxide (CO<sub>2</sub>), or dry chemical.

**Special Fire Fighting Procedures:** Keep personnel removed from area and upwind of fire. Wear full fire-fighting turnout gear (full bunker gear) and respiratory protection (SCBA). Cool fire exposed containers with water spray.

**Unusual Fire and Explosion Hazards:** Hazardous combustion products may be present. Combustion may form aldehydes, nitrous oxides, carbon monoxide (CO), and carbon dioxide (CO<sub>2</sub>).

#### Section 6 - Accidental Release Measures

**Containment Techniques (Removal of ignition sources, diking etc.):** Reduce vapor spreading with a water spray. Stop the leak, if possible. Shut off or remove all ignition sources. Construct a dike to prevent spreading.

**Clean-Up Procedures:** Spread absorbent material over area. Transfer to containers by suction. For large spills, recover spilled material with a vacuum truck. Dispose of material in accordance with local, state and federal regulations. Wash area with soap and water. Prevent washings from entering sewers or waterways.

**Other Emergency Advice:** Wear protective clothing, boots, gloves, respirator, and eye protection.

#### Section 7 - Handling and Storage

**Storage:** Store in a cool (60°- 80°F), dry ventilated place. Store in closed containers.

**Handling:** Avoid breathing of vapors. Handle in well-ventilated workspace. Avoid contact with skin, eyes, or clothing. When handling, do not eat, drink, or smoke.

**Other Precautions:** Emergency showers and eye wash stations should be readily accessible. Wash thoroughly after handling. Remove contaminated clothing and gear. Decontaminate. Destroy leather or any articles, which can not be decontaminated.

### MATERIAL SAFETY DATA SHEET

Metzger/McGuire Co.  
Concord, NH 033024473  
Telephone: (800) 223-6680

Page: 3 of 4 (Armor-Hard Extreme Part B)  
Date Prepared: 09/13/06  
Revision Number: 1

#### Section 8 - Personal Protection/Exposure Controls

**Eye Protection:** Full-face shield with chemical safety goggles. Contact lenses should not be worn while using this product.

**Hand Protection:** Neoprene rubber gloves. Cuffed butyl rubber gloves. Nitrile rubber gloves.

**Respiratory Protection:** Not necessary under most operating conditions. NIOSH approved organic vapor respirator should be used in confined areas, or when conditions cause high vapor concentrations. If the percent oxygen is below normal then use self-contained breathing apparatus.

**Protective Clothing:** Impervious clothing. Slickersuit. Rubber boots. Full rubber suit (rain gear). Butyl or latex protective clothing.

**Work and Hygienic Practices:** Eye wash stations and safety showers should be easily accessible.

#### Section 9 - Typical Physical and Chemical Properties

<b>Physical Form:</b>	Liquid	<b>Vapor Density:</b>	Heavier than air
<b>Color:</b>	Yellow	<b>Boiling Point:</b>	> 200 °F
<b>Odor:</b>	Amine	<b>Melting Point:</b>	Not applicable
<b>pH:</b>	No Data	<b>Solubility in Water:</b>	Negligible
<b>Vapor Pressure:</b>	No Data	<b>Specific Gravity:</b>	1.02

#### Section 10 - Stability and Reactivity

**Chemical Stability:** Stable

**Conditions to Avoid (if stable):** None

**Incompatibility (Materials to Avoid):** Acids, strong oxidizing agents.

**Hazardous Decomposition Products:** None

**Hazardous Polymerization:** Contact with epoxy resins under uncontrolled conditions. May release excess heat and vapors.

#### Section 11 - Toxicological Properties

**Acute Oral Toxicity (LD50, RAT):** No data available.

**Acute Dermal Toxicity (LD50, RABBIT):** No data available.

**Acute Inhalation Toxicity (LC50, RAT):** No data available.

#### Section 12 - Ecological Information

No Data Available

#### Section 13 - Disposal Considerations

**Waste Disposal:** This material does not contain any VOC's (volatile organic compounds). Dispose of material in accordance with applicable, local, state, and federal laws and regulations. The state and local regulations and laws may differ from federal regulations, and laws may change or be reinterpreted. This information only applies to the material as manufactured. Processing, use, or contamination may make the information in appropriate, inaccurate, or incomplete. Responsibility for proper waste disposal is with the owner of the waste.

**MATERIAL SAFETY DATA SHEET**

Metzger/McGuire Co. Page: 4 of 4 (Armor-Hard Extreme Part C)  
 Concord, NH 03302 Date Prepared: 09/13/06  
 Telephone: (800) 223-6680 Revision Number: 1

**Section 15 - Regulatory Information**

**US FEDERAL REGULATIONS:**

**Toxic Substances Control Act (TSCA):** All components are included in the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory or are not required to be listed on the TSCA Inventory.

**OSHA (29CFR1910.1200) Hazard Class(es):** Irritant. Carcinogen.

**EPA Sara Title III Section 312 (40CFR370) Hazard Classes:** Immediate Health Hazard. Delayed Health Hazard.

**EPA Sara Title III Section 313 (40CFR372):** Toxic chemicals above "de minimus" level: None.

**STATE REGULATIONS:**

**California Proposition 65 Substances:** (components known to the State of California to cause cancer and/or reproductive toxicity and subject to warning and discharge requirements under the "Safe Drinking Water and Toxic Enforcement Act of 1986"). None

**INTERNATIONAL REGULATIONS**

**Canada:** **WHMIS Hazard Classification:** Class D, division 2B. Class D, division 2A.  
**WHMIS Risk Phrases:** Eye or skin irritant. May cause cancer.  
**WHMIS Symbols:** Stylized T

**Section 16 - Other Information**

*To the best of our knowledge, the information contained herein is accurate. However, neither Metzger/McGuire nor any of its agents assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.*

Revision Date: 09/13/06 Replaces Revision Dated: N/A

**MATERIAL SAFETY DATA SHEET**

Metzger/McGuire Co. Page: 1 of 4 (Armor-Hard Extreme Part C)  
 P. O. Box 2217 Date Prepared: 09/13/06  
 Concord, NH 03302 Revision Number: 1  
 Telephone: (800) 223-6680

**Section 1 - Material Identification**

**Product Name:** Armor-Hard Extreme (Filler)  
**Product Type:** Aggregate Filler  
**Emergency Number (s):** (800) 255-3924 24 hrs. (Continental U.S.)  
 (813) 248-0585 24 hrs. (Outside Continental U.S.)

**Revision Notes:** None

**Section 2 - Hazardous Ingredients**

#	wt %	CAS Number	Chemical Name
1.	> 1 %	14808-60-7	Silica, Crystalline, Quartz

**OSHA & ACGIH EXPOSURE LIMITS**

		TWA		STEL		CEILING	
		Ppm	Mg/m3	ppm	Mg/m3	Ppm	mg/m3
1.	<b>OSHA</b>	N/E	15 dust	N/E	N/E	N/E	N/E
	<b>ACGIH</b>	N/E	10 dust	N/E	N/E	N/E	N/E

*N/E = Not Established*

**Section 3 - Health Hazards**

**EMERGENCY OVERVIEW**

**HMIS HEALTH RATING:** 1\* **FLAMMABILITY:** 0 **REACTIVITY:** 0

**HMIS Hazard Rating** \ Least - 0 Slight - 1 Moderate - 2 High - 3 Extreme - 4

A tan, grey or red granular solid. Causes eye and skin irritation. Prolonged inhalation of respirable silica will result in permanent lung damage, silicosis.

**Routes of Exposure:** Eye Contact, Skin Contact, Inhalation.

**Health Hazards:** May cause eye irritation. Skin irritant.

**Target Organs:** Eyes, Skin, Lungs.

**Signs and Symptoms of Exposure (Acute Effects):** Contact with skin or eyes causes irritation, redness and discomfort.

**Signs and Symptoms of Exposure (Possible Longer Term Effects):** Repeated and/or prolonged exposure may cause allergic reaction/ sensitization. Repeated and/or prolonged exposure may result in adverse eye effects (such as conjunctivitis or corneal damage), adverse skin effects (such as rash,

irritation or corrosion). Chronic exposure to quartz containing limestone dust in excess of TLV's can cause silicosis.

**Medical Conditions Generally Aggravated by Exposure:** Eye disease, skin disorders and allergies.

**Carcinogens under OSHA, ACGIH, NTP, IARC, other:** Silica, crystalline, quartz.

## MATERIAL SAFETY DATA SHEET

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Concord, NH 03302 Date Prepared: 09/13/06  
Telephone: (800) 223-6680 Revision Number: 1

### Section 4 - First Aid

**Eye Contact:** Hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention.

**Skin Contact:** Remove contaminated clothing/shoes and wipe excess from skin. Flush skin with water. Follow by washing with soap and water. If irritation occurs, seek medical attention.

**Inhalation:** Remove victim to fresh air and provide oxygen. If breathing is difficult, seek medical attention.

**Ingestion:** If swallowed, call physician immediately. Induce vomiting only as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

### Section 5 - Fire and Explosion Data

**Flash Point (closed cup):** N/A **Upper Explosion Limit (UEL):** No data  
**Auto Ignition Temperature:** No data **Lower Explosion Limit (LEL):** No data  
**Fire Hazard Classification (OSHA/NFPA):** None. **Extinguishing Media:** N/A.  
**Special Fire Fighting Procedures:** N/A. **Unusual Fire and Explosion Hazards:** None known.

### Section 6 - Accidental Release Measures

**Containment Techniques (Removal of ignition sources, diking, etc.):** None necessary.

**Clean-Up Procedures:** Dust may be created due to spillage. Cleanup personnel may be exposed to excessive respirable dust. Wetting of spilled material and/or use of appropriate respirators may be necessary.

**Other Emergency Advice:** Wear protective clothing, boots, gloves, respirator, and eye protection.

### Section 7 - Handling and Storage

**Storage:** Store in a cool (60-80 °F), dry, ventilated place.

**Handling:** Avoid contact with skin, eyes, or clothing. When handling, do not eat, drink, or smoke.

**Other Precautions:** Wash thoroughly after handling. Remove contaminated clothing and gear. Decontaminate.

### Section 8 - Personal Protection/Exposure Controls

**Eye Protection:** Chemical safety goggles recommended. Contact lenses should not be worn while using this product.

**Hand Protection:** As needed to limit dust accumulation on hands.

**Respiratory Protection:** Use chemical goggles and impervious gloves. Selection of specific items such as boots and apron will depend on operation. Wear respirator protection whenever airborne concentrations exceed TLV ceilings or TWA, use NIOSH approved respirators for listed hazard.

Confined spaces, rooms, or tanks are areas where concern for TLV's is especially important. Reference OSHA Regulation CFR 29 1910.134 for recommended respiratory protection.

**Protective Clothing:** Clean, body covering clothing should be utilized.

**Work and Hygienic Practices:** Eye wash stations and safety showers should be easily accessible.

## MATERIAL SAFETY DATA SHEET

Metzger/McGuire Co. Page: 3 of 4 (Armor-Hard Extreme Part C)  
Concord, NH 03302 Date Prepared: 09/13/06  
Telephone: (800) 223-6680 Revision Number: 1

### Section 9 - Typical Physical and Chemical Properties

<b>Physical Form:</b>	Granular Solid	<b>Density:</b>	Heavier than air
<b>Color:</b>	Varies (tan, grey or red)	<b>Boiling Point:</b>	> 200 °F
<b>Odor:</b>	None	<b>Melting Point:</b>	Not Applicable
<b>pH:</b>	No Data	<b>Solubility in Water:</b>	Negligible
<b>Vapor Pressure:</b>	No Data	<b>Specific Gravity:</b>	2.65

### Section 10 - Stability and Reactivity

**Chemical Stability:** Stable  
**Conditions to Avoid (if unstable):** None  
**Incompatibility (Materials to Avoid):** Acids, strong oxidizing agents.  
**Hazardous Decomposition Products:** None  
**Hazardous Polymerization:** None.

### --Section 11 - Toxicological Properties

**Acute Oral Toxicity (LD50, RAT):** No data available.

**Acute Dermal Toxicity (LD50, RABBIT):** No data available.

**Acute Inhalation Toxicity (LC50, RAT):** No data available.

### Section 12 - Ecological Information

No data available.

### Section 13 - Disposal Considerations

**Waste Disposal:** This material does not contain any VOC's (volatile organic compounds). Dispose of material in accordance with applicable, local, state, and federal laws and regulations. The state and local regulations and laws may differ from federal regulations, and laws may change or be reinterpreted. This information only applies to the material as manufactured. Processing, use, or contamination may make the information in appropriate, inaccurate, or incomplete. Responsibility for proper waste disposal is with the owner of the waste.

### Section 14 - Transport Information

**DOT Non-Bulk Shipping Name:** Sand NOI

**UN#:** N/A

**DOT Bulk Shipping Name:** Sand NOI

**Packing Group:** Not regulated

**Technical Shipping Name:** NMFC Item 90220, Class 50

<b>IMO Shipping Data:</b>	Sand NOI
<b>DOT Hazard Class:</b>	Not regulated
<b>ICAO/IATA Shipping Data:</b>	Sand NOI