

MATERIAL SAFETY DATA SHEET

Metzger/McGuire Co.  
 Concord, NH 03302  
 Telephone: (800) 223-6680

Page: 4 of 4 (Armor-Hard HDR Part C)  
 Date Prepared: 09/30/2014  
 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: 09/30/2014

Replaces Revision Dated: N/A

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Section 1 - Material Identification

**Product Name:** Armor-Hard (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:** Annual Updating

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.	OSHA	N/E	15 dust	N/E	N/E	N/E	N/E
	ACGIH	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.

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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.

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Section 9 - Typical Physical and Chemical Properties

**Physical Form:** Granular Solid      **Density:** Heavier than air  
**Color:** Varies (tan, grey or red)      **Boiling Point:** > 200 °F  
**Odor:** None      **Melting Point:** Not Applicable  
**pH:** No Data      **Solubility in Water:** Negligible  
**Vapor Pressure:** No Data      **Specific Gravity:** 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 inappropriate, 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  
**IMO Shipping Data:** Sand NOI  
**DOT Hazard Class:** Not regulated  
**ICAO/IATA Shipping Data:** Sand NOI