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## MSDS SHEET - COAL SLAG - U.S. MINERALS

### I. Product Identification

**Trade Name as Labeled:** Coal Slag Roofing Granules, Black Magnum  
**Manufacturer's Name:** US Minerals  
**Manufacturer's Address:** 3145 45 Street, Suite B  
Highland, IN 46322  
**Emergency & Information Phone Number:** 800-252-7848

### II. Hazardous Ingredients

CAS Number	Chemical Name	Percent	ACGIH-TLV	OSHA-PEL
1344-28-1	Aluminum Oxide	17-22	10 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>
1309-37-1	Ferric Oxide	15-20	5 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
60676-86-0	Amorphous Silica	50-55	6 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
1305-78-8	Calcium Oxide	4-7	2 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>
1309-48-4	Magnesium Oxide	1-2	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
13463-67-7	Titanium Oxide	1-2	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
14808-60-7	Crystalline Silica	<1%	0.1 mg/m <sup>3</sup>	0 mg/m <sup>3</sup>

### III. Physical Properties

**Vapor Density:** N/A  
**Boiling Point Range:** Not Determined  
**Evaporation Rate:** N/A  
**Melting Point:** > 2000° F  
**Appearance & Odor:** Black shiny granules; no odor  
**Specific Gravity:** 2.6 - 2.9  
**Solubility in Water:** Negligible  
**Vapor Pressure:** N/A

### IV. Fire & Explosion

**Flash Point:** None  
**Flammable Limits:** None  
**Unusual Fire & Explosion Hazards:** None  
**Fire Extinguishing Materials:** Water Spray, Carbon Dioxide, Foam, Dry Chemical  
**Auto Ignition Temperature:** None  
**Special Fire Fighting Procedures:** None

### V. Health Hazard Information

**Routed of Entry:** Inhalation. Ingestion. Skin.

#### HEALTH HAZARDS:

**Acute:** Eye, skin, respiratory tract irritant  
**Chronic:** Dust in the lungs.

**Crystalline Silica IARC:** Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans (vol. 68, 1997) concludes that there is sufficient evidence in humans for the carcinogenicity of inhaled crystalline silica in the forms of quartz and cristobalite (Group 1) in certain industrial circumstances, but that carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs.

**Signs and Symptoms of Exposure:** Eye and skin irritation, respiratory tract irritation  
**Medical Conditions Aggravated by Exposure:** May aggravate existing pulmonary conditions.

#### EMERGENCY AND FIRST AID PROCEDURES:

**Eye Contact:** Flush eyes with water for 15 minutes. Seek medical attention if irritation persists.  
**Skin Contact:** Wash skin with soap and water.  
**Swallowed:** Unlikely. Seek medical help if swallowed.  
**Inhaled:** Immediately remove to fresh air. Apply artificial respiration if breathing has stopped. Seek medical attention.

# MSDS SHEET - BLACK MAGNUM - US MINERALS

## VI. Reactivity Data

**Stability:** Stable  
**Hazardous Polymerization:** Will not occur  
**Conditions to Avoid:** None, material considered inert and not reactive.  
**Incompatibility (Materials to Avoid):** None  
**Hazardous Decomposition Products:** None

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## VII. Precautions for Safe Handling and Use

**Steps to be Taken in Case Material is Released or Spilled:** Avoid generating dust. Wet methods & vacuuming are preferred.  
**Waste Disposal Method:** Handle as inert material. May be disposed of as non-hazardous solid waste in accordance with local, state and federal regulations.  
**Precautions to be Taken in Handling and Storing:** Limit dust generation. Keep dry.

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## VIII. Control Measures

**Respiratory Protection (Type):** NIOSH approved filters if dust exposure approaches TLV. Use supplied air in a sandblasting operation.

**Ventilation:** Keep dust levels below PEL. Provide adequate ventilation.

**Protective Gloves:** Rubber or cloth type to limit skin contact.

**Eye Protection:** Goggles or face shield as appropriate.

**Other Protective Clothing & Equipment:** Long sleeves and pants to limit skin contact.

**Work/Hygienic Practices:** Practice good personal hygiene. Wash or shower after use. Launder contaminated clothing before reuse.

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## IX. Silicosis Warning

**▲ DANGER** Breathing dust containing silica will cause silicosis, a fatal lung disease. Breathing dust during blasting operations will cause asbestosis, lead poisoning and/or other serious or fatal diseases. A NIOSH-approved, well-maintained, supplied-air abrasive blasting respirator must be used by anyone blasting, anyone handling or using the abrasive and anyone in the area of the dust. Harmful dust containing toxic material from abrasives or surfaces being blasted can remain suspended in the air for long periods of time after blasting has ceased. Failure to avoid the above danger will result in death or serious injury.

**▲ DANGER** You must comply with all OSHA, local, City, State, Province, Country and jurisdiction regulations, ordinances and standards, related to your particular work area and environment. Keep unprotected individuals out of the work area. Failure to avoid the above danger will result in death or serious injury.

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**DISCLAIMER:** The information in this MSDS was obtained from sources, which we believe are reliable. However, the information is provided without any representation or warranty, expressed or implied, regarding accuracy. These conditions or methods of handling, storage use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. Customers/users of silica must comply with all applicable health and safety laws, regulations and orders, including the OSHA Hazardous Communication Standard.



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