Material Safety Data Sheet
Material Name: Coal Slag Roofing Granules, Black Magnum Coal Slag Abrasive

*** Section 1 - Chemical Product and Company Identification ***

Manufacturer Information
U.S. Minerals
2105 North Winds Drive
Dyer, IN 46311
Phone: 219-864-0909
Emergency # CHEMTREC 800-424-9300

*** Section 2 - Hazards Identification ***

Emergency Overview
Treat as a nuisance dust. Mechanical irritation may occur to eyes, skin, gastrointestinal, and/or respiratory tract.
Typical free silica is less than 0.1%.

Potential Health Effects: Eyes
May cause irritation.

Potential Health Effects: Skin
May cause irritation.

Potential Health Effects: Ingestion
Not considered a likely route of exposure under normal product use. May cause gastrointestinal irritation if swallowed.

Potential Health Effects: Inhalation
May cause respiratory tract irritation.

HMIS Ratings: Health: 1 Fire: 0 HMIS Reactivity 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard ***

Section 3 - Composition / Information on Ingredients ***

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Component</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>68476-96-0</td>
<td>Slags, coal</td>
<td>99-100</td>
</tr>
</tbody>
</table>

*** Section 4 - First Aid Measures ***

First Aid: Eyes
Flush immediately with water for at least 15 minutes. Do not rub eyes.

First Aid: Skin
For skin contact, flush with large amounts of water. If irritation persists, get medical attention.

First Aid: Ingestion
If ingestion of a large amount does occur, seek medical attention.

First Aid: Inhalation
Move person to non-contaminated air. If the affected person is not breathing, apply artificial respiration.

*** Section 5 - Fire Fighting Measures ***

General Fire Hazards
See Section 9 for Flammability Properties.
None

Hazardous Combustion Products
Not determined

Extinguishing Media
Water spray, Carbon Dioxide, Foam or Dry Chemical.

Fire Fighting Equipment/Instructions
Firefighters should wear full protective gear.

NFPA Ratings: Health: 1 Fire: 0 Reactivity: 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe
Material Safety Data Sheet
Material Name: Coal Slag Roofing Granules, Black Magnum Coal Slag Abrasive

*** Section 6 – Accidental Release Measures ***

Containment Procedures
Contain the discharged material.

Clean-Up Procedures
Avoid generating dust; wet methods and vacuuming are preferred.

Evacuation Procedures
Isolate area. Keep unnecessary personnel away.

Special Procedures
Avoid contact with skin and eyes.

*** Section 7 – Handling and Storage ***

Handling Procedures
Wash hands after handling and before eating.

Storage Procedures
Keep this material in a cool, well-ventilated place.

*** Section 8 – Exposure Controls / Personal Protection ***

A: Component Exposure Limits
ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.

Engineering Controls
Use general ventilation and use local exhaust, where possible, in confined or enclosed spaces.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face
Wear goggles or face shield as appropriate.

Personal Protective Equipment: Skin
Rubber or cloth type to limit skin contact.

Personal Protective Equipment: Respiratory
NIOSH approved filters if dust exposure approaches TLV. Use supplied air in a sandblasting operation. Appropriate respiratory protection for respirable particulates is based on consideration of air borne workplace concentrations and duration of exposure arising from the intended end use. Please refer to the most recent standards of ANSI (Z88.2), OSHA (29CFR 1910.134), MSHA (30 CFR Parts 56 & 57), and NIOSH RDL. If you are unsure as to the type of respirator to be used please consult your employer.

Personal Protective Equipment: General
Eye wash fountain is recommended.

*** Section 9 – Physical & Chemical Properties ***

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Black</td>
</tr>
<tr>
<td>Physical State</td>
<td>Coarse Solid</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>ND</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>ND</td>
</tr>
<tr>
<td>Solubility (H2O)</td>
<td>Negligible</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>ND</td>
</tr>
<tr>
<td>Octanol/H2O Coeff.</td>
<td>ND</td>
</tr>
<tr>
<td>Flash Point Method</td>
<td>ND</td>
</tr>
<tr>
<td>Lower Flammability Limit (LFL)</td>
<td>NA</td>
</tr>
<tr>
<td>Auto Ignition</td>
<td>ND</td>
</tr>
<tr>
<td>Odor</td>
<td>None</td>
</tr>
<tr>
<td>pH</td>
<td>NA</td>
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<tr>
<td>Vapor Density</td>
<td>NA</td>
</tr>
<tr>
<td>Melting Point</td>
<td>&gt;2000°F</td>
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<tr>
<td>Specific Gravity</td>
<td>2.6-2.9</td>
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<tr>
<td>Flash Point</td>
<td>None</td>
</tr>
<tr>
<td>Upper Flammability Limit (UFL)</td>
<td>NA</td>
</tr>
<tr>
<td>Burning Rate</td>
<td>ND</td>
</tr>
</tbody>
</table>
**Section 10 – Chemical Stability & Reactivity Information**

Chemical Stability
This is a stable material.

Chemical Stability: Conditions to Avoid
None, material considered inert and not reactive.

Incompatibility
None

Hazardous Decomposition
None

Possibility of Hazardous Reactions
Will not occur.

**Section 11 – Toxicological Information**

Acute Dose Effects
A: General Product Information
No information available for the product.

B: Component Analysis - LD50/LC50
No LD50/LC50's are available for this product's components.

Carcinogenicity
A: General Product Information
No information available for the product.

B: Component Carcinogenicity
None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

**Section 12 – Ecological Information**

Ecotoxicity
A: General Product Information
No information available for the product.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity
No ecotoxicity data are available for this product's components.

**Section 13 – Disposal Considerations**

US EPA Waste Number & Descriptions
Component Waste Numbers
No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions
All wastes must be handled in accordance with local, state and federal regulations.
See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

**Section 14 – Transportation Information**

US DOT Information
Shipping Name: Not Regulated
*** Section 15 – Regulatory Information ***

US Federal Regulations
Component Analysis
None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

State Regulations
Component Analysis - State
None of this product's components are listed on the state lists from CA, MA, MN, NJ, PA, or RI.

Component Analysis - WHMIS IDL
No components are listed in the WHMIS IDL.

Additional Regulatory Information
Component Analysis - Inventory

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>TSCA</th>
<th>CAN</th>
<th>EEC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slags, coal</td>
<td>68476-96-0</td>
<td>Yes</td>
<td>DSL</td>
<td>EINECS</td>
</tr>
</tbody>
</table>

*** Section 16 – Other Information ***

Other Information
The information herein is presented in good faith and believed to be accurate as of the effective date given. However, no warranty, expressed or implied, is given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

Key/Legend
EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration., NJTSR = New Jersey Trade Secret Registry.

End of Sheet

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