SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
Product name: MineralTech CP Copper Slag
Product form: Mixture
Other means of identification: Fayalita (Complex silicates and oxides of Fe, Si, Ca, Al); Copper slag

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture: Blasting media, Roofing granules, Waterjet cutting, Concrete additive, Anti-skid additive

1.3. Details of the supplier of the safety data sheet
MineralTech, LLC
P.O. Box 1027
Highlands, TX 77562

1.4. Emergency telephone number
Emergency number: 281-462-4220

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
GHS-US classification
Skin Irrit. 2  H315
Eye Irrit. 2A  H319

Note: Wetting with water will reduce airborne dust formation.

2.2. Label elements
GHS-US labelling
Hazard pictograms (GHS-US):

![Hazard pictogram]

Signal word (GHS-US): Warning
Hazard statements (GHS-US):
H315 - Causes skin irritation
H319 - Causes serious eye irritation
Precautionary statements (GHS-US):
P264 - Wash hands, forearms and face thoroughly after handling
P280 - Wear eye protection, face protection, protective clothing, protective gloves
P302+P352 - If on skin: Wash with plenty of soap and water
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P321 - Specific treatment (see first aid instructions on this label)
P332+P313 - If skin irritation occurs: Get medical advice/attention
P337+P313 - If eye irritation persists: Get medical advice/attention
P362 - Take off contaminated clothing and wash before reuse

2.3. Other hazards
No additional information available

2.4. Unknown acute toxicity (GHS-US)
No data available

SECTION 3: Composition/information on ingredients

3.1. Substance
Not applicable

3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium oxide (&lt;0.5% as lime)</td>
<td>(CAS No) 1305-78-8</td>
<td>10 - 30</td>
</tr>
</tbody>
</table>

SECTION 4: First aid measures

4.1. Description of first aid measures
First-aid measures general: If exposed or concerned, get medical attention/advice. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.
### First-aid measures after inhalation
IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if breathing is affected.

### First-aid measures after skin contact
IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes. If irritation develops or persists, get medical attention.

### First-aid measures after eye contact
IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. If pain, blinking, or irritation develops or persists, get medical attention. Continue rinsing.

### First-aid measures after ingestion
IF SWALLOWED: rinse mouth thoroughly. Do not induce vomiting without advice from poison control center or medical professional. Get medical attention if you feel unwell.

#### 4.2. Most important symptoms and effects, both acute and delayed

- **Symptoms/injuries after inhalation**: May cause respiratory irritation.
- **Symptoms/injuries after skin contact**: Causes skin irritation.
- **Symptoms/injuries after eye contact**: Causes serious eye irritation.
- **Symptoms/injuries after ingestion**: May cause gastrointestinal irritation.

#### 4.3. Indication of any immediate medical attention and special treatment needed
No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

#### 5.2. Special hazards arising from the substance or mixture
- **Fire hazard**: Not flammable.
- **Explosion hazard**: Product is not explosive.
- **Reactivity**: No data available.

#### 5.3. Advice for firefighters

- **Firefighting instructions**: Exercise caution when fighting any chemical fire. Do not dispose of fire-fighting water in the environment. Prevent human exposure to fire, fumes, smoke and products of combustion.
- **Protection during firefighting**: Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

- **General measures**: Isolate the area. Keep upwind. Ventilate area. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8).

##### 6.1.1. For non-emergency personnel
- **Protective equipment**: Wear Protective equipment as described in Section 8.
- **Emergency procedures**: Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders
- **Protective equipment**: Wear suitable protective clothing, gloves and eye or face protection. For further information refer to section 8: “Exposure controls/personal protection”.

#### 6.2. Environmental precautions
Prevent entry to sewers and public waters. Avoid release to the environment. Notify authorities if product enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up
- **For containment**: Sweep or shovel spills into appropriate container for disposal.
- **Methods for cleaning up**: Minimize generation of dust. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).

#### 6.4. Reference to other sections
See Sections 8 and 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling
Precautions for safe handling: Do not handle until all safety precautions have been read and understood. Provide good ventilation in process area to prevent formation of dust. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not breathe dust. Keep away from sources of ignition - No smoking.

#### 7.2. Conditions for safe storage, including any incompatibilities
No additional information available
MineralTech CP Copper Slag
Safety Data Sheet
Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Calcium oxide (1305-78-8)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH TWA (mg/m³)</td>
<td>2</td>
</tr>
<tr>
<td>Remark (ACGIH)</td>
<td>Upper Respiratory Tract irritation</td>
</tr>
<tr>
<td>OSHA PEL (TWA) (mg/m³)</td>
<td>5</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Appropriate engineering controls: Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.

Personal protective equipment:
- Gloves. Safety glasses.

Hand protection: Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Be aware that the chemical may penetrate the gloves. Frequent changes are advisable. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl.

Eye protection: Wear eye protection, including chemical splash goggles and a face shield when possibility exists for eye contact due to spraying liquid or airborne particles.

Skin and body protection: Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure.

Respiratory protection: Use NIOSH-approved dust/particulate respirator. Where vapor, mist, or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Solid
Appearance: Angular granules.
Color: Shiny to dull black
Odor: None.
Odor Threshold: No data available
pH: 6.5 - 7.8
Relative evaporation rate (butylacetate=1): No data available
Melting point: No data available
Freezing point: No data available
Boiling point: No data available
Flash point: No data available
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Flammability (solid, gas): No data available
Vapour pressure: No data available
Relative vapour density at 20 °C: No data available
Relative density: No data available
Solubility: Insoluble in water.
Log Pow: No data available
Log Kow: No data available
Viscosity, kinematic: No data available
Viscosity, dynamic: No data available
Explosive properties: No data available
Oxidising properties: No data available
Explosive limits: No data available
Percent volatile by volume: 0%

9.2. Other information

No additional information available
MineralTech CP Copper Slag
Safety Data Sheet
Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 10: Stability and reactivity

10.1. Reactivity
No data available.

10.2. Chemical stability
Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions
No data available.

10.4. Conditions to avoid
No data available.

10.5. Incompatible materials
Strong acids.

10.6. Hazardous decomposition products
None known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

<table>
<thead>
<tr>
<th>Effect</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>Respiratory or skin sensitisation</td>
<td>Not classified</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Silica: Crystalline, quartz (14808-60-7)</td>
<td>IARC group 1 - Carcinogenic to humans</td>
</tr>
</tbody>
</table>

The International Agency for Research on Cancer (IARC) has classified "silica dust, crystalline, in the form of quartz or cristobalite" as carcinogenic to humans (group 1). However these warnings refer to inhalable crystalline silica dusts (≤ 10 µm) and do not apply to particles > 250 µm in size. As such, we have not classified this product as a carcinogen in accordance with the US OSHA Hazard Communication Standard (29 CFR §1910.1200) but recommend that users avoid inhalation of product in a dust form.

<table>
<thead>
<tr>
<th>Effect</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reproductive toxicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Specific target organ toxicity (repeated exposure)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Not classified</td>
</tr>
<tr>
<td>Symptoms/injuries after inhalation</td>
<td>May cause respiratory irritation.</td>
</tr>
<tr>
<td>Symptoms/injuries after skin contact</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>Symptoms/injuries after eye contact</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>Symptoms/injuries after ingestion</td>
<td>May cause gastrointestinal irritation.</td>
</tr>
</tbody>
</table>

SECTION 12: Ecological information

12.1. Toxicity
Ecology - general : No information available.

12.2. Persistence and degradability

<table>
<thead>
<tr>
<th>Product</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>MineralTech CP Copper Slag</td>
<td>Persistence and degradability : No information available.</td>
</tr>
</tbody>
</table>

12.3. Bioaccumulative potential
No additional information available

12.4. Mobility in soil
No additional information available

12.5. Other adverse effects
No additional information available
SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods: Do not discharge to public wastewater systems without permit of pollution control authorities.
No discharge to surface waters is allowed without an NPDES permit.

Waste disposal recommendations: Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be released into the environment.

SECTION 14: Transport information

In accordance with DOT
Not hazardous for transport

Additional information

Other information: No supplementary information available.

Transport by sea
No additional information available

Air transport
No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

MineralTech CP Copper Slag
All chemical substances in this product are listed in the EPA (Environment Protection Agency) TSCA (Toxic Substances Control Act) Inventory or are exempt

SARA Section 311/312 Hazard Classes
Immediate (acute) health hazard

Aluminum oxide (1344-28-1)
Section 313 Listed on US SARA Section 313

Arsenic oxide (7440-38-2)
CERCLA Section 313 Listed on US SARA Section 313

Beryllium (7440-41-7)
CERCLA RQ 10 lb Section 313 Listed on US SARA Section 313

Cadmium (7440-43-9)
CERCLA RQ 10 lb Section 313 Listed on US SARA Section 313

Lead (7439-92-1)
CERCLA RQ 10 lb Section 313 Listed on US SARA Section 313

15.2. International regulations
No additional information available.

15.3. US State regulations
California Proposition 65
WARNING! This product contains chemicals known to the state of California to cause cancer, birth defects, or other reproductive harm.

Silica: Crystalline, quartz (14808-60-7)

<table>
<thead>
<tr>
<th></th>
<th>U.S. - California - Proposition 65 - Carcinogens List</th>
<th>U.S. - California - Proposition 65 - Developmental Toxicity</th>
<th>U.S. - California - Proposition 65 - Reproductive Toxicity - Female</th>
<th>U.S. - California - Proposition 65 - Reproductive Toxicity - Male</th>
<th>No significance risk level (NSRL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
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Arsenic (7440-38-2)

<table>
<thead>
<tr>
<th></th>
<th>U.S. - California - Proposition 65 - Carcinogens List</th>
<th>U.S. - California - Proposition 65 - Developmental Toxicity</th>
<th>U.S. - California - Proposition 65 - Reproductive Toxicity - Female</th>
<th>U.S. - California - Proposition 65 - Reproductive Toxicity - Male</th>
<th>No significance risk level (NSRL)</th>
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<tbody>
<tr>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
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<td>----------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>Beryllium</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Cadmium</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Lead</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Nickel</td>
<td>Yes</td>
<td>No</td>
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</tr>
<tr>
<td>Chromium</td>
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<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
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<tr>
<td>Antimony</td>
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<td>Mercury</td>
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<td>Vanadium</td>
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<td>Iron oxide</td>
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</tr>
<tr>
<td>Silica</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Aluminum oxide</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>
**MineralTech CP Copper Slag**  
Safety Data Sheet  
Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### Aluminum oxide (1344-28-1)
- U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

### Calcium oxide (1305-78-8)
- U.S. - New Jersey - Right to Know Hazardous Substance List  
- U.S. - Massachusetts - Right To Know List  
- U.S. - Pennsylvania - RTK (Right to Know) List

### Magnesium oxide (1309-48-4)
- U.S. - New Jersey - Right to Know Hazardous Substance List  
- U.S. - Pennsylvania - RTK (Right to Know) List  
- U.S. - Massachusetts - Right To Know List

### Arsenic (7440-38-2)
- U.S. - New Jersey - Right to Know Hazardous Substance List  
- U.S. - Massachusetts - Right To Know List  
- U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List  
- U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances

### Beryllium (7440-41-7)
- U.S. - New Jersey - Right to Know Hazardous Substance List  
- U.S. - Massachusetts - Right To Know List  
- U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List  
- U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances

### Cadmium (7440-43-9)
- U.S. - New Jersey - Right to Know Hazardous Substance List  
- U.S. - Massachusetts - Right To Know List  
- U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List  
- U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances

### Lead (7439-92-1)
- U.S. - New Jersey - Right to Know Hazardous Substance List  
- U.S. - Massachusetts - Right To Know List  
- U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

### Zinc oxide (1314-13-2)
- U.S. - New Jersey - Right to Know Hazardous Substance List  
- U.S. - Massachusetts - Right To Know List  
- U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

## SECTION 16: Other information

<table>
<thead>
<tr>
<th>Indication of changes</th>
<th>: Revision 2.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revision date</td>
<td>: 08/25/2015</td>
</tr>
<tr>
<td>Other information</td>
<td>: Author: ANF.</td>
</tr>
</tbody>
</table>

**NFPA health hazard**: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

**NFPA fire hazard**: 0 - Materials that will not burn.

**NFPA reactivity**: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

**HMIS III Rating**
- **Health**: 1
- **Flammability**: 0
- **Physical**: 0
- **Personal Protection**: 

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.