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

1.1. **Product identifier**
   - **Product name**: Premium Garnet Abrasive Grains and Powders
   - **Product form**: Mixture

1.2. **Relevant identified uses of the substance or mixture and uses advised against**

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

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**: Not classified

2.2. **Label elements**
   - **GHS-US labelling**: No labelling applicable

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><strong>Contains no hazardous ingredients at levels requiring disclosure by the OSHA Hazard Communication Standard (29 CFR 1910.1200).</strong></td>
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</tr>
</tbody>
</table>

*Almandine Garnet is a naturally occurring mineral, having a chemical composition of Fe₃Al₂(SiO)₃, with Mg and Mn in partial substitution for Fe in the formula, and other minerals.*

**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 comfortable position for breathing.

   **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.

   **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. 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**: Not expected to present a significant hazard under anticipated conditions of normal use.
   - **Symptoms/injuries after inhalation**: May cause respiratory irritation.
   - **Symptoms/injuries after skin contact**: May cause skin irritation.
   - **Symptoms/injuries after eye contact**: Direct contact with the eyes is likely to be irritating.
   - **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
Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

5.2. Special hazards arising from the substance or mixture
Fire hazard : Not flammable.
Explosion hazard : Product is not explosive.
Reactivity : No dangerous reactions known under normal conditions of use.

5.3. Advice for firefighters
Precautionary measures fire : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Do not dispose of fire-fighting water in the environment.
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 : Evacuate area. Ventilate area. Keep upwind. 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. Approved supplied-air respirator, in case of emergency.

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

6.3. Methods and material for containment and cleaning up
For containment : Contain and collect as any solid.
Methods for cleaning up : Avoid dust formation. Wear suitable respiratory protective equipment. Sweep or shovel spills into appropriate container for disposal. This material and its container must be disposed of in a safe way, and as per local legislation.

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. Avoid dust formation. Avoid breathing dust. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities
Storage conditions : Store in a well-ventilated place. Keep container tightly closed.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Silica: Crystalline, quartz (14808-60-7)</th>
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<tbody>
<tr>
<td>ACGIH TWA (mg/m³)</td>
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<tr>
<td>OSHA PEL (TWA) (mg/m³)</td>
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<tr>
<td>OSHA PEL (TWA) (ppm)</td>
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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.
SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

* Physical state: Solid
* Odor: No data available
* Odor Threshold: No data available
* pH: No data available
* Relative evaporation rate (butylacetate=1): No data available
* Melting point: 1315 °C Circa
* Freezing point: No data available
* Boiling point: No data available
* Flash point: Material is a non-flammable solid
* 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: 4 - 4.1
* 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

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

None known.
SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity: Not classified

<table>
<thead>
<tr>
<th>Silica: Crystalline, quartz (14808-60-7)</th>
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<tbody>
<tr>
<td>LD50 oral rat</td>
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Skin corrosion/irritation: Not classified
Serious eye damage/irritation: Not classified
Respiratory or skin sensitisation: Not classified
Germ cell mutagenicity: Not classified
Carcinogenicity: Not classified

Germ cell mutagenicity: Not classified
Carcinogenicity: Not classified.

Silica: Crystalline, quartz (14808-60-7)
IARC group | 1 - Carcinogenic to humans
Reproductive toxicity: Not classified
Specific target organ toxicity (single exposure): Not classified
Specific target organ toxicity (repeated exposure): Not classified
Aspiration hazard: Not classified
Symptoms/injuries after inhalation: May cause respiratory irritation.
Symptoms/injuries after skin contact: May cause skin irritation.
Symptoms/injuries after eye contact: Direct contact with the eyes is likely to be irritating.
Symptoms/injuries after ingestion: May cause gastrointestinal irritation.

SECTION 12: Ecological information

12.1. Toxicity
Ecology - general: No information available.

12.2. Persistence and degradability

<table>
<thead>
<tr>
<th>Premium Garnet Abrasive Grains and Powders</th>
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<tr>
<td>Persistence and degradability</td>
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12.3. Bioaccumulative potential

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<td>Bioaccumulative potential</td>
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12.4. Mobility in soil

<table>
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<tr>
<th>Premium Garnet Abrasive Grains and Powders</th>
</tr>
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<tbody>
<tr>
<td>Ecology - soil</td>
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12.5. Other adverse effects
Other adverse effects: No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Waste treatment methods: Obtain the consent of pollution control authorities before discharging to wastewater treatment plants.
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

Premium Garnet Abrasive Grains and Powders

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: Delayed (chronic) health hazard

15.2. International regulations

No additional information available.

15.3. US State regulations

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>Non-significant risk level (NSRL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silica: Crystalline, quartz (14808-60-7)</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Not available</td>
</tr>
</tbody>
</table>

Magnesium oxide (1309-48-4)

<table>
<thead>
<tr>
<th></th>
<th>U.S. - New Jersey - Right to Know Hazardous Substance List</th>
<th>U.S. - Pennsylvania - RTK (Right to Know) List</th>
<th>U.S. - Massachusetts - Right To Know List</th>
</tr>
</thead>
</table>

SECTION 16: Other information

Indication of changes: Revision 1.0: New SDS Created.

Revision date: 12/23/2015

Other information: Author: BCS.

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

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<tbody>
<tr>
<td>Health</td>
<td>1*</td>
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<tr>
<td>Flammability</td>
<td>0</td>
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<tr>
<td>Physical</td>
<td>0</td>
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<tr>
<td>Personal Protection</td>
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</table>

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.