Section I: Identification

Product Identification: Pumice / Amorphous Aluminum Silicate

Manufacture’s Identification: Hess Pumice Products, Inc.

Contact Telephone Numbers

(208) 766-4777

Address

100 Hess Drive

Malad, Idaho 83252

Date Prepared: September 2014

Section II: Hazards Identification

None (Quartz content below detectable limits of 0.1%)

Section III: Composition Information:

Other principal inert components: Complex silicates or oxides of Al, K, Na, Fe, Ca, Mg, Ti.

Chemical Identity, major components: Amorphous Aluminum Silicate (Al₂O₃)

MₓOᵧ • SiO₂ (M=Al, Ca, Mg + other minor metal oxides, with bound amorphous silica (SiO₂)

Common Names: Pumice, volcanic glass

HMIS (Hazardous Materials Identification System Ratings – NPCA/CPCA)

Based on hazard rating of 4 = Most severe

Health 0

Flammability 0

Reactivity 0

Personal Protection: Use approved dust mask; goggles to prevent eye irritation.

Section IV – First Aid

Material is non-poisonous.

Eyes – Flush with copious amounts of clean water for 15 minutes. If irritation persists, consult a physician.

Inhalation – Blow nose, rinse mouth, drink water to clear throat. Remove to fresh air.

Section V – Fire and Explosion Hazard Data

Flash Point: N/A

Flammable Limits: N/A

LEL: N/A

UEL: N/A

Extinguishing Media: N/A

Special Fire Fighting Procedures: N/A

Unusual Fire and Explosion Hazards: None

(Continued on next page)
Section VI – Accidental Release

Vacuum all clean spillage. If sweeping is necessary, use a dust suppressant.

Section VII – Handling and Storage

Precautions to be taken in handling as storing: Use techniques that minimize generating dust.

Other precautions: Material, when wet, may be slippery on a smooth surface. Use caution.

Section VIII – Exposure Controls / Personal Protection

Respiratory Protection: Use an approved dust mask, such as a particulate filter respirator.

<table>
<thead>
<tr>
<th>Ventilation</th>
<th>Local Exhaust: Recommended</th>
<th>Special Other:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mechanical (General): Sweep or vacuum all spills</td>
<td>Use filter-equipped vacuum to remove dust; Do Not blow off with compressed air.</td>
</tr>
</tbody>
</table>

Protective Gloves: Not Required

Eye Protection: Goggles recommended.

Other Protective Clothing or Equipment: Not Required


Section IX – Physical/Chemical Properties (N/A = Not Applicable)

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>2.35</td>
</tr>
<tr>
<td>Melting Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>N/A</td>
</tr>
<tr>
<td>Nearness to Ash</td>
<td>N/A</td>
</tr>
<tr>
<td>Appearance and Odor</td>
<td>Off-White Powder. No odor.</td>
</tr>
<tr>
<td>pH</td>
<td>7.2</td>
</tr>
</tbody>
</table>

Section X – Stability and Reactivity

<table>
<thead>
<tr>
<th>Stability</th>
<th>Unstable</th>
<th>Conditions to Avoid</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stable</td>
<td>×</td>
<td>No special precautions</td>
</tr>
</tbody>
</table>

Incompatibility (Materials to Avoid): No Incompatibility. (Reacts with hydrofluoric acid: soluble in HF)

Hazardous Decomposition of Byproducts: May react with hydrofluoric acid to form toxic silicon tetra-flouride gas.

<table>
<thead>
<tr>
<th>Hazardous Polymerization</th>
<th>May Occur</th>
<th>Conditions to Avoid:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Will Not Occur</td>
<td>No special conditions</td>
</tr>
</tbody>
</table>

Section XI – Toxicological Information

Classified as Nuisance Dust only.

Route(s) of Entry: Inhalation: Yes Skin: No Ingestion: Non-Hazardous


Silica-Group 3. (Not classifiable as to carcinogenicity to humans.)

Signs and Symptoms of Exposure: In extreme exposures, some congestion may occur.

(Continued on next page)
Section XI – Toxicological Information (Continued)

Medical conditions which may be aggravated by exposure: Pre-existing upper respiratory and lung disease such as, but not limited to, Emphysema and Asthma.

Acute health effects: Transitory upper respiratory irritant.

Chronic health effects: Inhalation of high levels of any nuisance dust over long periods of time may cause lungs to be more vulnerable to pneumoconiosis (lung disease).

Section XII – Ecological Information

No special considerations.

Section XIII – Disposal considerations

Bury as non-toxic waste in an approved landfill in accordance with all federal, state and local regulations.

Section XIV – Transportation Information

Not controlled by IATA and to be considered as non-dangerous goods.

Section XV – Regulatory Information

Not regulated.

Section XVI – Other

No other special considerations.