SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Product Identifier</th>
<th>WHMIS Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perlite (All Grades)</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

| Product Use | Light weight aggregate, Horticultural aggregate, Refractory, Insulation, Filter aid. |

<table>
<thead>
<tr>
<th>Manufacturer's Name</th>
<th>Supplier's Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Therm-O-Rock East, Inc.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Street Address</th>
<th>City</th>
<th>Province</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Pine Street</td>
<td>New Eagle</td>
<td>PA</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Postal Code</th>
<th>Emergency Telephone</th>
</tr>
</thead>
<tbody>
<tr>
<td>15067</td>
<td>724-258-3670</td>
</tr>
</tbody>
</table>

Date MSDS Prepared: 9-30-2013
MSDS Prepared By: Stanley R. Slawek
Phone Number: (724) 258-3670

SECTION 2 — HAZARDS IDENTIFICATION

Route of Entry: ☒ Skin Contact  ☐ Skin Absorption  ☒ Eye Contact  ☐ Inhalation  ☐ Ingestion

Emergency Overview:
This product contains crystalline silica (less than 1%). OSHA considers perlite to be a nuisance dust. Inhalation of high amounts over long periods of nuisance dust may overload lung clearance mechanism and make the lungs more vulnerable to respiratory disease. Long term inhalation of crystalline silica dusts may cause lung cancer (Silicosis). Crystalline silica has been classified as a probable human carcinogen (Group 2A) by IARC, a unit of the World Health Organization. This product has been classified a carcinogen by NTP and/or OSHA.

WHMIS Symbols:
Not Regulated

Potential Health Effects:

Inhalation: Pre-existing upper respiratory and lung disease may be aggravated. Acute inhalation can cause dryness of the nasal passage and lung congestion, coughing and general throat irritation. Chronic inhalation of dust should be avoided.

Eye: May cause irritation (tear formation and redness) if dust gets in eyes.

Skin: Not absorbed by the skin. But may cause dryness if prolonged exposure.

Ingestion: Ingestion of small to moderate quantities is not considered harmful, but may cause irritation of the mouth, throat and stomach.

SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Hazardous Ingredients</th>
<th>%</th>
<th>CAS Number</th>
<th>LD₅₀ of Ingredient (specify species and route)</th>
<th>LC₅₀ of Ingredient (specify species)</th>
<th>OSHA PEL (mg/m³)</th>
<th>ACGIH TLV (mg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perlite</td>
<td>100</td>
<td>130885-09-5</td>
<td>Not Available</td>
<td>Not Available</td>
<td>10</td>
<td>15</td>
</tr>
<tr>
<td>Silica</td>
<td>&lt;1</td>
<td>14808-60-7</td>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</td>
<td>.05</td>
</tr>
</tbody>
</table>

Please continue on reverse side
SECTION 4 — FIRST AID MEASURES

Skin Contact
Use moisture renewing lotions if dryness occurs.

Eye Contact
Flush eyes with generous quantities of water or eye rinse solution. Consult physician if irritation persists.

Inhalation
Remove to fresh air. Blow nose to evacuate dust.

Ingestion
Drink generous amounts of water to reduce bulk and drying effects.

SECTION 5 — FIRE FIGHTING MEASURES

Flammable
☐ Yes ☒ No

Means of Extinction
N/A

Flashpoint (° C) and Method
None

Upper Flammable Limit (% by volume) None

Lower Flammable Limit (% by volume) None

Auto ignition Temperature (° C) N/A

Explosion Data — Sensitivity to Impact N/A

Explosion Data — Sensitivity to Static Discharge N/A

Not Combustible
N/A

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Personal Precautions: If dust is present, use respirator fitted with particulate filter as specified in Section 8. Protect eyes with goggles.

Containment and Cleanup: Vacuum clean dust with equipment fitted with HEPA filter. Use dust suppressant such as water if sweeping is necessary.


SECTION 7 — HANDLING AND STORAGE

Handling Procedures and Equipment
Minimize dust generation. Avoid contact with eyes. Avoid breathing dust. Repair or dispose of broken bags.

Storage Requirements
Store in a dry place to maintain packaging integrity and product quality. Do not store near hydrofluoric acid. Observe all label precautions and warnings.

SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limits ☒ ACGIH TLV ☒ OSHA PEL ☐ Other (specify)

Specific Engineering Controls (such as ventilation, enclosed process)

Adequate ventilation and appropriate local exhaust where needed to keep dust level below PEL.

Personal Protective Equipment ☒ Gloves ☒ Respirator ☒ Eye ☐ Footwear ☐ Clothing ☐ Other

If checked, please specify type

Eye: Goggles to protect from dust.
Skin: No special equipment is required.

Respiratory: Respirators fitted with filters certified to standard 42CFR84 under series N95 should be worn when dust is present. If the dust concentration is less than ten (10) time the Permissible Exposure Limit (PEL) use a quarter or half mask respirator. If dust concentration is greater than ten (10) times and less than fifty (50) times the PEL, a full-face piece respirator fitted with replaceable N95 filters is recommended. If dust concentration is greater than fifty (50) and less than two-hundred (200) times the PEL use a power air-purify (positive pressure) respirator with replaceable N95 filter. If dust concentration is greater than two-hundred (200) times the PEL use a type C, supplied air respirator (continuous flow, positive pressure), with full face piece, hood or helmet.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Physical State</th>
<th>Odor and Appearance</th>
<th>Odor Threshold (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid</td>
<td>White Granules or Powder. No distinct odor.</td>
<td>N/A</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>Vapor Density (air = 1)</td>
<td>N/A</td>
</tr>
<tr>
<td>2.35</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Boiling Point (° C)</td>
<td>N/A</td>
</tr>
<tr>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>pH</td>
<td>Coefficient of Water/Oil Distribution</td>
<td>N/A</td>
</tr>
<tr>
<td>6-10</td>
<td>Slightly Soluble</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 10 — STABILITY AND REACTIVITY

Chemical Stability

- Yes
- No

If no, under which conditions?

Incompatibility with Other Substances

- Yes
- No

If yes, which ones?

Reacts with Hydrofluoric Acid to form Silicon Tetrafluoride gas

Reactivity and under what conditions?

No dangerous reactions known.

Hazardous Decomposition Products

None

SECTION 11 — TOXICOLOGICAL INFORMATION

Effects of Acute Exposure

Potential irritant for skin contact, eye contact or inhalation.

Effects of chronic exposure

Perlite is a naturally occurring volcanic glass consisting of fused sodium-potassium-aluminum silicate. Tests conducted on Perlite have not identified crystalline silica as being present above the detection limit (0.05%). Although there are not published reports of adverse health effects from exposure to perlite dust, dust levels should be maintained below the OSHA Permissible Exposure Limit for perlite and respirators used when airborne dust is present.

Irritancy of Product

Potential irritant for skin contact, eye contact or inhalation.

Skin sensitization

- Possible through skin contact.

Carcinogenicity-IARC

N/A

Mutagenicity

N/A

Reproductive toxicity

N/A

Embryotoxicity

N/A

Name of synergistic products/effects

N/A

Please continue on reverse side
SECTION 12 — ECOLOGICAL INFORMATION

Aquatic Toxicity

Generally considered inert. Perlite has no negative ecological effect and may be used as a soil container.

SECTION 13 — DISPOSAL CONSIDERATIONS

Waste Disposal

Not considered hazardous waste by the RCRA (40 CFR Part 261). Place waste and spillage in closed containers.
Dispose in accordance with Federal, State and Local regulations.

SECTION 14 — TRANSPORT INFORMATION

Special Shipping Information

No known shipping regulations.

<table>
<thead>
<tr>
<th>PIN</th>
<th>DOT</th>
<th>IMDG</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

SECTION 15 — REGULATORY INFORMATION

WHMIS Classification

- OSHA:
  Perlite is not considered as a toxic or hazardous subject.

SERA

Not Listed

This product has been classified in accordance with the hazard criteria of the
Controlled Products Regulations (CPR) and the MSDS contains all of the information required by CPR.

SECTION 16 — OTHER INFORMATION

Notice: This information relates only to the material designated and may not be valid for such material used in combination with any other materials or in any process. All statements, information and data provided are believed to be accurate and reliable, but are presented without any guarantee, representation, warranty or responsibility of any kind, expressed or implied. Any and all representations and/or warranties of merchantability of fitness for a particular purpose are specifically disclaimed. Users should make their own investigations as to the suitability of the information or product for their particular purpose. Nothing in this document is intended as permission, inducement or recommendation to violate any laws or practice any invention covered by existing patents, copyrights or inventions. Therm-O-Rock East, Inc. does not accept liability for any loss or damage that may occur from the use of this information.