August 22, 2006

RE: MSDS – Alumina Ceramic

To Whom It May Concern:

Regarding your recent request for a Material Safety Data Sheet (MSDS), this is to inform you that an MSDS is not required for the CerCo LLC / Diamonite Plant product specified in your request. CerCo has determined that the product as it is currently manufactured is, by definition, an article and is not hazardous under conditions of normal use. As defined under the OSHA Hazard Communications Standard, “article” means a manufactured item (I) which is formed to a specific shape or design during manufacture; (II) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (III) which under normal conditions of use does not release more than very small quantities, e.g. minute or trace amounts, of hazardous chemical (as determined under paragraph (d) of this section) and does not pose a physical hazard or health risk to employees.

Based on CerCo’s interpretation that the product in question is an “article” and does not involve any exposure to chemicals under normal use, no MSDS is required. If, at any time, CerCo determines or becomes aware that the product does release or otherwise result in exposure to a hazardous chemical under normal use, then those customers using the product will be notified and sent an appropriate MSDS. Also, at that time, the product label would be modified in order to reflect such a change.

Please feel free to contact me if you have any questions regarding the classification of Specialty Ceramics products or this letter.

Sincerely,

John A. Martin
E, H, & S Coordinator
# MATERIAL SAFETY DATA SHEET

**Issue Date:** 12-Nov-1997

To the Purchaser: This MSDS contains important environmental safety and health information for your employees who will be using this product. Please be sure this information is given to them. If you resell this product, a copy of the MSDS should be given to the buyer.

**Manufacturer's Name:** Epoxy Corporation, Refractories Division

**Address:** 230 Railroad Street, East Liverpool, OH 43920

## SECTION I

### PRODUCT NAME
- **Trade Name:** Endura ceramic tile
- **Chemical Name:** Alumina ceramic brick, block, or tiles

### CLASSIFICATION NUMBER
- **Class:** N/A
- **Form:** AL_01

## SECTION II

### OSHA POTENTIAL HAZARDOUS INGREDIENT(S)

<table>
<thead>
<tr>
<th>Component</th>
<th>%</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>This product meets the definition of an article and accordingly is exempt from the requirements of OSHA Hazard Communication Standard, 29 CFR 1910.1200. Under the circumstance that the piece would be cut, ground or crushed, dust may be produced.</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### ADDITIONAL INFORMATION
- N/A

## SECTION III PHYSICAL DATA

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting Point (°F)</td>
<td>N/A</td>
</tr>
<tr>
<td>Specific Gravity (H_2O = 1)</td>
<td>3.43 - 3.60</td>
</tr>
<tr>
<td>Vapor Pressure (mm Hg)</td>
<td>N/A</td>
</tr>
<tr>
<td>Volatiles by Volume (%)</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Density (Air = 1)</td>
<td>N/A</td>
</tr>
<tr>
<td>Evaporation Rate (Butyl Acetate = 1)</td>
<td>N/A</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>0.0</td>
</tr>
<tr>
<td>Melting Point (°F)</td>
<td>73000°F</td>
</tr>
<tr>
<td>Appearance &amp; Odor</td>
<td>White, None</td>
</tr>
</tbody>
</table>

## SECTION IV FIRE & EXPLOSION HAZARD DATA

### Flash Point (Method Used)
- N/A

### Flammable Limits
- LEL: N/A
- UEL: N/A

### Extinguishing Media
- N/A

### Special Fire Fighting Procedures
- N/A

### Unusual Fire & Explosion Hazards (See Reactivity Section for other physical hazards)
- N/A

**NA = NOT APPLICABLE**

**NF = NOT FOUND**

**important:** SEE REVERSE SIDE FOR DISCLAIMER
<table>
<thead>
<tr>
<th>STABILITY</th>
<th>UNSTABLE</th>
<th>CONDITIONS TO AVOID</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>INCOMPATIBILITY (Materials to Avoid)</th>
<th>None Known</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAZARDOUS DECOMPOSITION PRODUCTS</td>
<td>None Expected</td>
</tr>
<tr>
<td>POLYMORPHIZATION</td>
<td>MAY OCCUR</td>
</tr>
<tr>
<td></td>
<td>CONDITIONS TO AVOID</td>
</tr>
<tr>
<td></td>
<td>WILL NOT OCCUR</td>
</tr>
</tbody>
</table>

### SECTION VI HEALTH HAZARD DATA

**PRIMARY ROUTES OF ENTRY**

- LISTED AS A CARCINOGEN: Yes [ ] No [X] If yes, explain:

**SYMPTOMS AND EFFECTS OF OVEREXPOSURE**

- N/A

**EMERGENCY AND FIRST AID PROCEDURES**

- N/A

### SECTION VII SPILL OR LEAK PROCEDURES

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

- N/A

**WASTE DISPOSAL METHOD**

- Re-use if landfill, following local, state and federal regulations

### SECTION VIII RECOMMENDED CONTROL MEASURES

**RESPIRATORY PROTECTION**

- N/A

**VENTILATION**

- LOCAL EXHAUST: N/A
- MECHANICAL (General): N/A

**PROTECTIVE CLOTHING**

- N/A

**EYE PROTECTION**

- N/A

**OTHER PROTECTIVE EQUIPMENT**

- N/A

**SPECIAL PROTECTIVE MEASURES FOR REPAIR AND MAINTENANCE OF CONTAMINATED EQUIPMENT**

- N/A

### SECTION IX SPECIAL PRECAUTIONS

**PRECAUTIONS TO BE TAKEN IN HANDLING & STORING (including appropriate hygiene practices)**

- Wear gloves to prevent skin abrasion/irritation.
- Avoid creating dust. Use dust-type mask if dust is created.

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