### SECTION I - MATERIAL IDENTIFICATION AND USE

**Material Name/Identifier**: Clay, Redart

**Manufacturer's Name**: Cedar Heights Clay

**Street Address**: 3542 S. R. 93 P. O. Box 295

**City**: Oak Hill

**Postal Code**: 45656 - 0295

**Chemical Name**: Hydrous aluminum silicate

**CAS No. or U.N. Numbers**: Not applicable

**Material Use**: Ceramics

### SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

<table>
<thead>
<tr>
<th>Hazardous Ingredients</th>
<th>Approximate Concentration %</th>
<th>C. A. S. N. A. or U.N. Numbers</th>
<th>&quot;Exposure limits&quot;</th>
<th>LD&lt;sub&gt;50&lt;/sub&gt;/LC&lt;sub&gt;50&lt;/sub&gt;</th>
<th>Specify Species and Route</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crystalline silica (quartz)</td>
<td>20 - 30</td>
<td>14808-60-7</td>
<td>0.1 mg/m³ TWA (ACGIH)</td>
<td>Not available</td>
<td></td>
</tr>
<tr>
<td>Hydrous aluminum silicate</td>
<td>70 - 80</td>
<td></td>
<td>10 mg/m³ TWA (ACGIH)</td>
<td>Not available</td>
<td></td>
</tr>
</tbody>
</table>

### SECTION III - PHYSICAL DATA FOR MATERIAL

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odour and Appearance</td>
<td>Dark red with earthy odor</td>
</tr>
<tr>
<td>Odour Threshold (ppm)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapour Pressure (mmHg)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapour Density (Air = 1)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Solubility in Water (20°C) Insoluble</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>2.3</td>
</tr>
<tr>
<td>Boiling Point (°C)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Freezing Point (°C)</td>
<td>1093.3</td>
</tr>
</tbody>
</table>

### SECTION IV - FIRE AND EXPLOSION HAZARD OF MATERIAL

- **Flammability**: Not flammable. May actually be used as an extinguisher.
- **Means of Extinction**: None
- **Special Procedures**: None
- **Flashpoint (°C)**: Not applicable
- **Auto Ignition Temperature (°C)**: Not applicable
- **Explosion Data**: Not applicable

### SECTION V - REACTIVITY DATA

- **Chemical Stability**: Yes
- **Incompatibility to other substances**: No known incompatible materials
- **Reactivity and under what conditions**: No known incompatible materials

**Hazardous Decomposition Products**: May release carbon monoxide and sulfur dioxide when heated above 260°C.
SECTION VI - TOXICOLOGICAL PROPERTIES OF PRODUCT

Route of Entry
- Skin Contact
- Skin Absorption
- Eye Contact
- Inhalation Acute
- Inhalation Chronic
- Ingestion

Effects of Acute Exposure to Product
Dust irritates eyes and respiratory tract

Effects of Chronic Exposure to Product
Crystalline silica is also listed as a class 2A carcinogen.

LD₅₀ of Product (Specify Species and Route) Not available
LC₅₀ of Product (Specify Species) Not available

Intoxication to Product May abrade eyes
Sanitization to Product None known

Exposure limits of Product Not available
Synergistic materials None known

- Carcinogenicity
- Reproductive effects
- Teratogenicity
- Mutagenicity

Does not meet WHMIS criteria for these effects.

SECTION VII - PREVENTIVE MEASURES

Personal Protective Equipment
In dusty conditions wear PPE as needed.

Gloves (Specify) Rubber
Respiratory (Specify) Dust mask
Eye (Specify) Goggles
Footwear (Specify) Not applicable

Clothing (Specify) Not applicable
Other (Specify) Not applicable

Engineering Controls (e.g. ventilation, enclosed process, specify) Use only in well ventilated areas.

Leak and Spill Procedure
Dry clean up. Keep dust levels low.

Waste Disposal
Any approved method.

Handling Procedures and Equipment
Avoid fumes (heating) in confined spaces. Use well vented kiln.

Storage Requirements
No specific requirements.

Special Storage Information None

SECTION VIII - FIRST AID MEASURES

Skin
Wash thoroughly with water.

Eye
Flush eyes for 15 minutes with gently running water.

Inhalation
Move to fresh air.

Ingestion
Should not cause problems.

General advice
Consult physician if condition persists.

SECTION IX - PREPARATION DATE OF M.S.D.S.

Information is obtained from sources believed reliable. TT&L accepts no responsibility for loss or damage incurred as a result of inaccuracy or incompleteness.

Sources Used
RTECS Cedar Heights Clay data

Prepared by
TT&L

Phone number
Date 1988-09-10

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ATTACHMENT TO M.S.D.S.

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