**SECTION I - MATERIAL IDENTIFICATION AND USE**

- **Material Name/Identifiers:** Clay, Redart
- **Manufacturer's Name:** Cedar Heights Clay
- **Address:** 3542 S. R. 93, OH, USA
- **City:** Oak Hill
- **Province:** OH, USA
- **Postal Code:** 45655 - 0295
- **Emergency Telephone No.:** (614) 682-7794
- **Chemical Name:** Hydrous aluminum silicate
- **Chemical Family:** Silicate
- **Molecular Weight:** Not applicable
- **Trade Name and Synonyms:** REDART.
- **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>LD₅₀/AC₅₀</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>
</tr>
<tr>
<td>Hydrous aluminum silicate</td>
<td>70 - 80</td>
<td></td>
<td>10 mg/m³ TWA (ACGIH)</td>
<td>Not available</td>
</tr>
</tbody>
</table>

**SECTION III - PHYSICAL DATA FOR MATERIAL**

- **Odour and Appearance:** Dark red with earthy odor
- **Odour Threshold (p.p.m.):** Not appl.
- **Specific Gravity:** 2.3
- **Vapour Pressure (mm):** Not appl.
- **Vapour Density (Air = 1):** Not appl.
- **Evaporation Rate:** Not appl.
- **Boiling Point (°C):** Not appl.
- **Freezing Point (°C):** 109.3
- **Solubility in Water (°C):** Insoluble
- **% Volatile (by volume):** Not appl.
- **pH:** Not appl.
- **Density (g/ml):** Not appl.
- **Coefficient of water solubility:** Not appl.

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

- **Flammability:** Yes, under certain conditions
- **Extinguishing Media:** Not flammable. May actually be used as an extinguisher.
- **Special Procedures:** None
- **Flashpoint (°C):** Not applicable
- **Auto Ignition Temperature (°C):** Not applicable
- **TDG Flammability Classification:** Not applicable
- **Hazardous Combustion Products:** None
- **Explosion Data:** Not applicable
- **Sensitivity to Chemical Impact:** Not applicable
- **Rate of Burning:** Not applicable
- **Explosive Power:** Not applicable
- **Sensitivity to Static Discharge:** Not applicable

**SECTION V - REACTIVITY DATA**

- **Chemical Stability:** No
- **Compatibility with other substances:** No known incompatible materials
- **Reactivity and under what conditions:**

**Hazardous Decomposition Products:**
May release carbon monoxide and sulfur dioxide when heated above 260°C.

Stock No. M.S.D.S.-8747
**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.**

<table>
<thead>
<tr>
<th>LO₅₀ of Product (Specify Species and Route)</th>
<th>LO₅₀ of Product (Specify Species)</th>
<th>NO₅₀ of Product (Specify Route)</th>
<th>LO₅₀ of Product (Specify Route)</th>
<th>LO₅₀ of Product (Specify Species)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available</td>
<td>Not available</td>
<td>Not available</td>
<td>Not available</td>
<td>Not available</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Intensity of Product</th>
<th>May abrade eyes</th>
<th>Sensitization to Product</th>
<th>None known</th>
<th>Synergistic materials</th>
<th>None known</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available</td>
<td></td>
<td>None known</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Carcinogenicity</th>
<th>Reproductive effects</th>
<th>Teratogenicity</th>
<th>Mutagenicity</th>
<th>Does not meet WHMIS criteria for these effects.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SECTION VII - PREVENTIVE MEASURES**

**Personal Protective Equipment**
In dusty conditions wear PPE as needed.

<table>
<thead>
<tr>
<th>Gloves (Specify)</th>
<th>Respiratory (Specify)</th>
<th>Dust mask</th>
<th>Eye (Specify)</th>
<th>Goggles</th>
<th>Footwear (Specify)</th>
<th>Not applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rubber</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Clothing (Specify)</th>
<th>Other (Specify)</th>
<th>Not applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Engineering Controls (e.g. ventilation, enclosed process, specify)</th>
<th>Use only in well ventilated areas.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

**Waste Disposal**
Any approved method.

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

**Storage Requirements**
No specific requirements.

**Special Shipping 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

**PRINTED IN CANADA**

**top tape & label ltd. 416-335-4423 © 1987**