**Material Safety Data Sheet**

**Section I. Chemical Product and Company Identification**

<table>
<thead>
<tr>
<th>Product Name/Trade Name</th>
<th>Code</th>
<th>CAS#</th>
<th>Supplier</th>
<th>In case of Emergency</th>
</tr>
</thead>
<tbody>
<tr>
<td>VANSIL® W-10</td>
<td>59251</td>
<td>See Section II</td>
<td>R. T. VANDERBILT COMPANY, INCORPORATED 30 WINFIELD STREET NORWALK, CT 06855</td>
<td>(203) 853-1400</td>
</tr>
</tbody>
</table>

**Synonym**
Wollastonite

**Chemical name**
Calcium silicate mineral (calcium metaslicate)

**Chemical Family**
Inosilicate (chain silicate-structural)

**Manufacturer**
R. T. Vanderbilt Company, Inc. 30 Winfield Street Norwalk, CT 06855

**Material Uses**
Additive in paints and plastics

**Section II. Composition and Information on Ingredients**

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS #</th>
<th>% by Weight</th>
<th>TLV/PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>wollastonite</td>
<td>13983-17-0</td>
<td>&lt;99</td>
<td>As particles not otherwise regulated (PNOR).</td>
</tr>
</tbody>
</table>
| quartz        | 14808-60-7   | 0.8-1.1     | OSHA PEL: TWA respirable fraction formula: 10 mg/m³/ % SiO₂ +2  
ACGIH: TWA 0.025 mg/m³ from respirable fraction |

**Total Product**
TWA: 15 mg/m³ total dust  
5 mg/m³ respirable dust (OSHA)  
As particles not otherwise regulated (PNOR).

**Section III. Hazards Identification**

**Emergency Overview**
Not an acute hazard. Contains quartz. May cause mechanical eye or skin irritation in high concentrations. As with all mineral spills, minimize dusting during clean-up. Do not breathe dust. Prolonged inhalation may cause lung injury. Product can become slippery when wet.

**Target Organs**
Pulmonary System (chronic risk).

**Section IV. First Aid Measures**

**Eye Contact**
Flush with plenty of flowing water. Get medical attention if irritation persists.

**Skin Contact**
Wash off with water.

**Inhalation**
Allow the victim to rest in a well ventilated area if high concentration is inhaled and mechanical irritation or discomfort occurs. Seek medical attention if irritation persists.

**Ingestion**
Unlikely to be toxic by ingestion.

**Continued on Next Page**
Section V. Fire and Explosion Data

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability of the Product</td>
<td>Non-flammable.</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Flammable Limits</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Products of Combustion</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Fire Hazards in Presence of</td>
<td>Not considered to be flammable.</td>
</tr>
<tr>
<td>Various Substances</td>
<td></td>
</tr>
<tr>
<td>Explosion Hazards in Presence</td>
<td>None.</td>
</tr>
<tr>
<td>of Various Substances</td>
<td></td>
</tr>
<tr>
<td>Fire Fighting Media</td>
<td>Product will not burn, use appropriate extinguishing media for surrounding fires.</td>
</tr>
<tr>
<td>and Instructions</td>
<td></td>
</tr>
<tr>
<td>Special Remarks on Fire Hazards</td>
<td>Not available.</td>
</tr>
<tr>
<td>Special Remarks on Explosion</td>
<td>Not available.</td>
</tr>
<tr>
<td>Hazards</td>
<td></td>
</tr>
</tbody>
</table>

Section VI. Accidental Release Measures

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small Spill</td>
<td>Use a vacuum to clean up spillage. If appropriate, use gentle water spray to wet down and minimize dust generation. Place in a sealed container.</td>
</tr>
<tr>
<td>Large Spill</td>
<td>Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Avoid excessive dust generation. Use respiratory protection in high dust conditions.</td>
</tr>
</tbody>
</table>

Section VII. Handling and Storage

<table>
<thead>
<tr>
<th>Handling and Storage Procedures</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No special storage considerations. Handle in ways which minimize dust generation.</td>
</tr>
</tbody>
</table>

Section VIII. Exposure Controls, Personal Protection

<table>
<thead>
<tr>
<th>Engineering Controls</th>
<th>Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If local exhaust ventilation is used, a capture velocity of 150-200 fpm is recommended.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Personal Protection</td>
<td>Safety glasses. Any NIOSH approved filler dust respirator. No special skin protection required. Wash skin if mechanical irritation is experienced.</td>
</tr>
</tbody>
</table>

Section IX. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>White powder.</td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>Not available.</td>
</tr>
<tr>
<td>pH</td>
<td>Not available.</td>
</tr>
<tr>
<td>Melting/Sublimation Point</td>
<td>Not available.</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>2.9 (Water = 1)</td>
</tr>
</tbody>
</table>
### Section X. Stability and Reactivity Data

<table>
<thead>
<tr>
<th>Stability</th>
<th>The product is stable.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Instability Temperature</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Conditions of Instability</td>
<td>None known.</td>
</tr>
<tr>
<td>Incompatibility with Various Substances</td>
<td>Non reactive.</td>
</tr>
<tr>
<td>Corrosivity</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

### Section XI. Toxicological Information

**Routes of Entry**
- Inhalation. Ingestion.

**Acute Effects**
- **Eye Contact**
  - Not a primary eye irritant. May cause mechanical irritation.
- **Skin Contact**
  - Because of the shape of individual wollastonite particles, minor skin irritation may result from prolonged physical contact.
- **Sensitization**
  - Not a sensitizer.
- **Ingestion**
  - Not an ingestion hazard.
- **Inhalation**
  - Inhalation of high concentrations may cause irritation or discomfort.

**Remarks**
- No additional remark.

**Chronic Effects**
- **CARCINOGENIC EFFECTS** See remarks.
- **MUTAGENIC EFFECTS** None known.
- **TERATOGENIC EFFECTS** None known.
- **DEVELOPMENTAL TOXICITY** None known.

**Remarks**
- In a NIOSH medical survey of wollastonite workers "no definite association of wollastonite exposure and excess morbidity could be demonstrated". From an update of this study it was concluded that prolonged exposure to excessive wollastonite dust may affect pulmonary function.

**CRYSTALLINE SILICA**: Overexposure to respirable crystalline silica dust can cause silicosis, a form of progressive pulmonary fibrosis. "Inhalable" crystalline silica (quartz) is listed by IARC as a Group I carcinogen (lung) based on "sufficient evidence" in occupationally exposed humans and sufficient evidence in animals. Crystalline silica is also listed by the NTP as a known human carcinogen. Some studies have not demonstrated a cancer association and considerable controversy exists concerning the IARC and NTP classification.

- Excessive exposure to any dust may aggravate pre-existing respiratory conditions.

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Section XII. Ecological Information

<table>
<thead>
<tr>
<th>Ecotoxicity</th>
<th>None known.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOD5 and COD</td>
<td>Not available.</td>
</tr>
<tr>
<td>Products of Biodegradation</td>
<td>None known.</td>
</tr>
<tr>
<td>Toxicity of the Products of Biodegradation</td>
<td>None known.</td>
</tr>
<tr>
<td>Special Remarks on the Products of Biodegradation</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

Section XIII. Disposal Considerations

Waste Information

Not a US RCRA hazardous waste. Dispose of in accordance with state and local regulations.

Section XIV. Transport Information

DOT

Not a DOT controlled material (United States).

Maritime transportation

Not available.

Section XV. Regulatory Information

TSCA

Listed.

Federal and State Regulations

California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute:
SILICA, CRYSTALLINE - QUARTZ
Pennsylvania RTK: SILICA, CRYSTALLINE - QUARTZ: (generic environmental hazard)
Florida: SILICA, CRYSTALLINE - QUARTZ
Minnesota: SILICA, CRYSTALLINE - QUARTZ
Massachusetts RTK: SILICA, CRYSTALLINE - QUARTZ
New Jersey: SILICA, CRYSTALLINE - QUARTZ
TSCA 8(b) inventory: Calcium silicate mineral (calcium metaslicate)
SARA 302/304/311/312 hazardous chemicals: SILICA, CRYSTALLINE - QUARTZ
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: SILICA, CRYSTALLINE - QUARTZ: Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard

Continued on Next Page
### Section XVI. Other Information

<table>
<thead>
<tr>
<th>References</th>
<th>Not available.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Other Special Considerations</strong></td>
<td>Quartz (none detected to less than 1.0% - this quartz range is &quot;typical&quot; and may change slightly with different lots and grades)</td>
</tr>
<tr>
<td>Validated by Sue Kelly on 1/17/2008.</td>
<td>Verified by Sue Kelly.</td>
</tr>
</tbody>
</table>

**Information Contact**  
John Kelse (203) 853-1400 ext. 217  
Corporate Risk Management

**Notice to Reader**

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