MATERIAL SAFETY DATA SHEET

SECTION I  NAME AND PRODUCT

MANUFACTURER'S NAME
Piedmont Minerals Company, Incorporated

ADDRESS (STREET, CITY, STATE AND ZIP CODE)
3514 W. Wendover Ave., Greensboro, N.C. 27407

TRADE NAME, COMMON NAME OR SPECIFICATION
Pyrofrac, Pyrotrol, Pyrophyll

CHEMICAL FAMILY OR PRODUCT TYPE
Inorganic Oxides

SECTION II  COMPOSITION

<table>
<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>%</th>
<th>COMMON NAME</th>
<th>REG.* (Y/N)</th>
<th>CAS #</th>
<th>OSHA³ PERMISSIVE EXPOSURE LIMIT</th>
<th>ACGIH³ TLV</th>
<th>CARCINOGEN² (Y/N)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pyrophyllite</td>
<td>&lt;50</td>
<td>Same</td>
<td>Y</td>
<td>12269-78-2</td>
<td>NAIF</td>
<td>.53 mg/m³²</td>
<td>N</td>
</tr>
<tr>
<td>Silicon Dioxide</td>
<td>&gt;50</td>
<td>Quartz</td>
<td>Y</td>
<td>7631-86-9</td>
<td>(4)</td>
<td>(4)</td>
<td>N</td>
</tr>
<tr>
<td>Andalusite</td>
<td>&lt;50</td>
<td>Same</td>
<td>Y</td>
<td>12183-80-1</td>
<td>NAIF</td>
<td>NAIF</td>
<td>N</td>
</tr>
</tbody>
</table>

(4) TLV's for free quartz (crystalline silica) may be calculated as follows:

TLV (total dust) = 30 mg/m³ + (% crystalline quartz + 2)
TLV (respirable dust) = 10 mg/m³ + (% crystalline quartz + 2)

For cristobalite and tridymite, use 1/2 quartz values

²Regulated as per lists: OSHA 29 CFR 1910, sub-part Z, ACGIH, HS/NTP and IARC
³Regulated as per lists: NTP Annual Report on Carcinogens, IARC Monographs

SECTION III  PHYSICAL AND CHEMICAL DATA

- Percent Volatile by Volume: 0%
- Solubility in Water: Negligible
- Bulk Density: 50 - 110 lb./cu.ft.
- P.C.E.: 20 - 31
- pH (10% solution): 6-7
- Physical Appearance: White to medium tan grains and powder with earthy odor

SECTION IV  FIRE AND EXPLOSION HAZARD DATA

Flash Point--Explosion Potential--Flammable Limits--Extinguishing Media

This product is non-flammable and will not support combustion

SECTION V  HEALTH AND FIRST AID (SEE SECTION II FOR TLV)

Inhalation: Nuisance dust. See Section IX. FIRST AID: Remove to dust-free area.

Skin: NAIF

Eyes: May abrade eyes. FIRST AID: Flush eyes with water for at least fifteen (15) minutes. Seek medical attention.

NOTE: See Section IX.

³ NOTE: The two numbers in the TLV and PEL columns represent the respirable/total fraction.
SECTION VI  CORROSIVITY AND REACTIVITY DATA

Stability: Stable  Conditions to be avoided: N/A
Polymerization: Will not occur
Incompatibility: N/A

SECTION VII  STORAGE, HANDLING AND USE PROCEDURES

Normal Storage and Handling: See below.

Normal Use: Good housekeeping and good hygienic practices should be used.

Steps to be taken in case of leaks or spills: Employ dust-free clean-up procedures.

Waste Disposal Method: The tearout and disposal of this product may generate dust. During tearout, observe the exposure limits outlined in Section II, and the personal protection precautions in Section VIII. Disposal shall be in accordance with Federal, State, and Local regulations.

SECTION VIII  PERSONAL PROTECTION INFORMATION

<table>
<thead>
<tr>
<th>RESPIRATORY PROTECTION (SPECIFY TYPE)</th>
<th>Use NIOSH or MSHA approved respirator.</th>
</tr>
</thead>
<tbody>
<tr>
<td>VENTILATION</td>
<td>LOCAL: Sufficient to keep dust below TLV's.</td>
</tr>
<tr>
<td></td>
<td>MECHANICAL (GENERAL)</td>
</tr>
<tr>
<td></td>
<td>OTHER</td>
</tr>
<tr>
<td>PROTECTIVE GLOVES</td>
<td>Recommended</td>
</tr>
<tr>
<td>EYE PROTECTION</td>
<td>Recommended</td>
</tr>
<tr>
<td>OTHER EQUIPMENT</td>
<td>N/A</td>
</tr>
</tbody>
</table>

SECTION IX  SPECIAL PRECAUTIONS

This product contains Silica. Inhalation of this dust in the respirable size range presents a potential health hazard. Excessive inhalation will increase your risk of serious respiratory disease (Silicosis).

FOR COMPANY USE

The information and recommendations set forth herein are taken from sources believed to be accurate as of the date hereof; however Biedmont makes no warranty with respect to the accuracy of the information or the