Section 1 - Chemical Product and Company Identification

Product/Chemical Name: Prolite Series (not including Prolite FG Series)
Chemical Formula: Lightweight Filler
General Use: Engineered filler for use with thermoplastics and thermosets
Manufacturer: The R.J. Marshall Company
26776 W. Twelve Mile Road
Southfield, MI 48034
Phone (248) 353-4100, Fax (248) 948-6460

Emergency Phone: (800) 424-9300
Date Revised: 3/18/14
Preparer: Stephanie Nichols

Section 2 - Hazards Identification

Signal Word: None
Pictogram: None
Hazard Statements: None
Precautionary Statements:
P302+352: IF ON SKIN: Wash with soap and water.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do-continue rinsing.

Section 3 - Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>CAS Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crystalline Silica</td>
<td>14808-60-7</td>
</tr>
<tr>
<td>Inorganic Filler</td>
<td>-----------</td>
</tr>
<tr>
<td>Copolymer</td>
<td>25214-39-5</td>
</tr>
</tbody>
</table>

*Calcium Carbonate products may contain crystalline silica up to 0.75% max and varies naturally.

Section 4 - First Aid Measures

Inhalation: If overcome by high dust concentrations, remove to a ventilated area.
Eye Contact: S-phrase: S26. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice if irritation persists.
Skin Contact: S-phrase: S28. After contact with skin wash immediately with plenty of soap and water for at least 15 minutes. Consult a physician if irritation persists.
Ingestion: Ingestion of very large quantities may result in intestinal obstruction and/or constipation. Considered to be of very low toxicity.

Section 5 - Fire-Fighting Measures

Extinguishing Media: S-phrase: S43. In case of fire use water spray, carbon dioxide or other dry chemical.
Unusual Fire or Explosion Hazards: None known.
Hazardous Combustion Products: None.
Fire-Fighting Instructions: Do not release runoff from fire control methods to sewers or waterways.
Fire-Fighting Equipment: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face-piece operated in pressure-demand or positive-pressure mode.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures: S-phrase S16/33: Eliminate all sources of ignition and prevent spark formation as a result of static electricity.
Methods and materials for containments and clean up: Sweep up material.
Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120).
Section 7 - Handling and Storage

Handling Precautions:  S-phrase S22. Do not breathe dust. Avoid generating dust during handling. Use respiratory mask when handling the product if dusting can’t be avoided.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls:
Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.
Respiratory Protection:  S-phrase: S38. In case of insufficient ventilation use suitable respiratory protection. If respirator is required, use a MSHA/NIOSH or OSHA/NIOSH approved respirator.
Contaminated Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.
Comments:  S-phrase: S20/21: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TWA</td>
<td>STEL</td>
</tr>
<tr>
<td>Crystalline Silica</td>
<td>(30 mg/m^3/(%SiO_2 +2)) total dust</td>
<td>N/E</td>
</tr>
<tr>
<td></td>
<td>(10 mg/m^3/(%SiO_2 +2)) respirable dust</td>
<td>N/E</td>
</tr>
<tr>
<td>Copolymer</td>
<td>N/E</td>
<td>N/E</td>
</tr>
<tr>
<td>Nuisance Dust (Inorganic Filler)</td>
<td>15mg/m^3 total, 5mg/m^3 respirable</td>
<td>N/E</td>
</tr>
</tbody>
</table>

Section 9 - Physical and Chemical Properties

| Physical State: White powder            |
| Appearance and Odor: White odorless powder |
| Odor Threshold: n/e                     |
| Formula Weight: n/a                     |
| Density: n/e                            |
| Specific Gravity (H_2O=1, at 4 °C): Varies according to grade |
| pH: n/e                                 |
| Flash Point: None known                  |
| Flash Point Method: n/a                  |
| Burning Rate: Not determined             |
| Auto-ignition Temperature: Not determined |
| Upper/lower flammability limits: non-flammable |
| Water Solubility: slight                |
| Other Solubilities: n/a                 |
| Boiling Point: n/a                       |
| Freezing/Melting Point: n/a             |
| Viscosity: n/a                           |
| Refractive Index: n/a                   |
| Surface Tension: n/a                    |
| % Volatile: n/a                         |
| Evaporation Rate: n/e                   |
| Partition coefficient: n-ocatanol/water: not determined |
| Vapor Pressure: n/e                     |
| Vapor Density (Air=1): n/a              |

Section 10 - Stability and Reactivity

Chemical Stability: This product is stable at room temperature in closed containers under normal storage and handling conditions.
Reactivity: Hazardous polymerization cannot occur.
Chemical Incompatibilities:  S-phrase S14: Keep away from strong acids, alum, ammonium salts, and fluorine. Calcium Carbonate will react with strong acids to form carbon dioxide and ignites on contact with fluorine.
Conditions to Avoid: none known.
Hazardous Decomposition Products: Thermal decomposition can produce calcium oxide and carbon dioxide.
Section 11 - Toxicological Information

Toxicity Data:

Primary Entry Routes: Inhalation, Eye, and Ingestion

Acute Effects
Inhalation: Inhalation of high concentration of this inert nuisance particulate can result in mild irritation of the respiratory tract.
Eye: May cause irritation through mechanical abrasion
Skin: May cause irritation through mechanical abrasion
Ingestion: Unlikely

Carcinogenicity: This product is not listed as a carcinogen under NTP, IARC, or OSHA. IARC has listed crystalline silica as a human carcinogen.

Chronic Effects: This product contains crystalline silica as an impurity. Prolonged exposure to respirable crystalline silica dust concentrations exceeding occupational exposure limits without the use of the proper respirator may increase the risk of developing a disabling lung disease called silicosis.

R36/37/38: Irritating to eyes, respiratory system, and skin.

Section 12 - Ecological Information

No information available.

Section 13 - Disposal Considerations

Disposal: Recycle if possible or landfill. This substance is inert and does not require special disposal methods. Follow applicable Federal, state, and local regulations.

Section 14 - Transport Information

DOT Transportation Data (49 CFR 172.101):
This product is not classified as dangerous under the transport regulations for road, rail, sea, or air transport.

Section 15 - Regulatory Information

EPA Regulations:
RCRA Hazardous Waste Number: Not listed (40 CFR 261.33)
RCRA Hazardous Waste Classification (40 CFR 261?): Not classified
CERCLA Hazardous Substance (40 CFR 302.4) Not listed
SARA Toxic Chemical (40 CFR 372.65): Not listed
SARA EHS (Extremely Hazardous Substance) (40 CFR 355): Not listed

OSHA Regulations:
Air Contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A): Not listed

TSCA
This substance or all of its components are on the Chemical Substances Inventory of the Toxic Substance Control Act (TSCA Inventory [USA]). Please note that this product is not subject to any legal reporting requirements under these acts.

International Regulations
Australia: Listed on AICS, Australia Inventory of Chemical Substances.
Canada: Listed.
China: Listed on IECSC, Inventory of Existing Chemical Substances China
European community: Listed on EINECS, European Inventory of Existing Commercial Chemical Substances.
Japan: Listed on ENCS, Existing and New Chemical Substances.
Korea: Listed on ECL.
New Zealand: Listed on NZIoC, New Zealand Inventory of Chemicals.
Philippines: Listed on PICCS, Philippine Inventory of Chemical and Chemical Substances.
Taiwan: Listed on NECI, National Existing Chemical Inventory.
Section 16 - Other Information

Prepared By: Stephanie Nichols  
Revision Notes: 3/18/14

Product Grades Available from the R.J. Marshall Company (this list may be incomplete):

<table>
<thead>
<tr>
<th>Prolite 15</th>
<th>Prolite 25</th>
<th>Prolite 35</th>
<th>Prolite 50</th>
<th>Prolite 55</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prolite C250</td>
<td>Prolite C500</td>
<td>Prolite C700</td>
<td>Prolite FR50</td>
<td></td>
</tr>
</tbody>
</table>

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