Section 1 - Chemical Product and Company Identification

Product/Chemical Name: Prolite 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  

Section 2 - Hazards Identification

Signal Word: Danger

Pictogram:

Hazard Statements: May cause cancer by inhalation through prolonged or repeated exposure.  
Precautionary Statements:  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Wear protective gloves/protective clothing/eye and face protection.  
If exposed or concerned: Get medical advice/attention.  
Store locked up.  
Dispose of in accordance with local regulations.

Section 3 - Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>CAS Number</th>
<th>Weight</th>
</tr>
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<tbody>
<tr>
<td>Crystalline Silica</td>
<td>14808-60-7</td>
<td>&lt;1%</td>
</tr>
</tbody>
</table>

There are no other hazardous ingredients in this product.

Section 4 - First Aid Measures

Description of necessary measures, subdivided according to the different routes of exposure:  
Inhalation: If overcome by high dust concentrations, remove to a ventilated area.  
Eye Contact: In case of contact with eyes, rinse immediately with plenty of water.  
Skin Contact: After contact with skin wash immediately with plenty of soap and water.  
Ingestion: Drink plenty of water. Never give liquids to an unconscious person.

Section 5 - Fire-Fighting Measures

Suitable Extinguishing Media: In case of fire use extinguishing media suitable for surrounding fire.  
Unsuitable Extinguishing Media: None known.  
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: Avoid dust formation. Remove all sources of ignition.  
Methods and materials for containments and clean up: Sweep or vacuum up material and collect in suitable container for disposal.
Section 7 - Handling and Storage

Handling Precautions: Do not breathe dust. Avoid generating dust during handling. Use respiratory mask when handling the product if dusting can’t be avoided. Keep away from heat/sparks/open flames. No smoking.

Storage Requirements: Keep material dry. Store in a cool, well-ventilated area. Keep away from acids.

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: In case of insufficient ventilation use suitable respiratory protection. If respirator is required, use a MSHA/NIOSH or OSHA/NIOSH approved respirator.

Protective Clothing/Equipment: Wear eye/face protection. Rubber gloves are recommended for prolonged exposure.

Contaminated Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

Comments: 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>
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<tr>
<td></td>
<td>TWA</td>
<td>STEL</td>
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<tr>
<td>Crystalline Silica</td>
<td>0.05 mg/m³ respirable dust</td>
<td>N/E</td>
</tr>
<tr>
<td>N/E not established</td>
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</table>

Section 9 - Physical and Chemical Properties

Appearance: white powder
Odor: odorless
Odor Threshold: not applicable
pH: not applicable
Freezing/Melting Point: not applicable
Boiling Point: not applicable
Flash Point: None known
Flash Point Method: n/a
Evaporation Rate: not applicable
Flammability: not flammable
Upper/lower flammability limits: non-flammable

Vapor Pressure: not applicable
Vapor Density (Air=1): not applicable
Relative Density: varies
Water Solubility: slight
Other Solubilities: n/a
Partition coefficient: n-octanol/water: not determined
Auto-ignition Temperature: Not determined
Decomposition Temperature: not determined
Viscosity: not applicable

Section 10 - Stability and Reactivity

Reactivity: Hazardous polymerization cannot occur.
Chemical Stability: This product is stable at room temperature in closed containers under normal storage and handling conditions.

Possibility of hazardous reactions: Reacts with acids to form carbon dioxide.
Conditions to Avoid: Do not expose to temperatures above 122°F (50°C).
Incompatible materials: Acids.
Hazardous Decomposition Products: Thermal decomposition can produce carbon monoxide, carbon dioxide, nitrogen oxides, and hydrogen chloride.
### Section 11 - Toxicological Information

**Information on the likely routes of exposure:** Inhalation, Eye, and Ingestion

**Symptoms related to the physical, chemical, and toxicological characteristics:**

- **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

**Delayed and immediate effects and also chronic effects from short- and long-term exposure:** 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.

**Numerical measures of toxicity:**

- **Acute Oral Toxicity:** $LD_{50} > 5000$ mg/kg
- **Carcinogenicity:** This product is not listed as a carcinogen under NTP, IARC, or OSHA. IARC and NTP have listed crystalline silica as a human carcinogen.

### Section 12 - Ecological Information

**Eco-toxicity:** Toxicity to fish: $LC_{50} > 5000$ mg/l Exposure time: 96 hours

**Persistence and degradability:** not applicable

**Bio-accumulative potential:** not applicable

**Mobility in soil:** not applicable

**Results of PBT and vPvB assessment:** not classified

### 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.

- **UN Number:** Not hazardous
- **UN proper shipping name:** Not hazardous
- **Transport hazard classes:** Not hazardous
- **Packing group, if applicable:** Not hazardous
- **Environmental hazards:** Not hazardous
- **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** Not hazardous
- **Special precautions:** None

### 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

**Prop65:** This product can expose you to chemicals including crystalline silica which is known to the State of California to cause cancer.

**OSHA Regulations:**
- Air Contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A): Not listed
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 on DSL.
- **China**: Listed on IECSC, Inventory of Existing Chemical Substances China.
- **Europe**: Listed on EINECS, European Inventory of Existing Commercial Chemical Substances.
- **Japan**: Listed on ENCS, Existing and New Chemical Substances.
- **Korea**: Listed on ECI.
- **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**: Updated sections 8 & 16

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

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