I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product/Trade Name: LaserForm™ ST-200 Powder

Chemical Family: Metal mixture

Product Use: Stainless-steel-based powder for SLS® system laser sintering applications

Manufacturer:

II. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Chemical Name</th>
<th>Percent</th>
<th>EINECS/ ELINCS #</th>
<th>EU Classification</th>
<th>Symbol</th>
<th>R-Phrase</th>
</tr>
</thead>
<tbody>
<tr>
<td>7439-89-6</td>
<td>Iron</td>
<td>30 - 60</td>
<td>231-096-4</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>7440-47-3</td>
<td>Chromium</td>
<td>10 - 30</td>
<td>231-157-5</td>
<td>Xi</td>
<td>R37</td>
<td></td>
</tr>
<tr>
<td>Mixture</td>
<td>Organic Binder</td>
<td>1 - 5</td>
<td>N.A.</td>
<td>None</td>
<td>None</td>
<td></td>
</tr>
</tbody>
</table>

OSHA Classification: Irritant

III. HAZARDS IDENTIFICATION

WARNING! MAY CAUSE EYE AND RESPIRATORY TRACT IRRITATION. DUST OR POWDER CAN CAUSE RESPIRATORY SYSTEM DAMAGE. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. KEEP CONTAINER CLOSED. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING.

FOR INDUSTRIAL USE ONLY.

Potential Health Effects

EYE: May cause irritation consisting of redness, swelling and pain due to mechanical irritation.

SKIN: Material not expected to be absorbed through the skin. May cause slight irritation consisting of redness and/or swelling due to mechanical irritation.

INHALATION: .......... Harmful if inhaled. Exposure to high concentrations of chromium dusts or fumes can cause severe respiratory and nasal irritation.

INGESTION: Ingestion of large amounts may cause nausea, diarrhea and/or stomach pain.

CHRONIC: Prolonged or repeated inhalation of powder, dust or fume may cause more severe irritation and possibly lung damage. Prolonged or repeated exposures to chromium dusts or fumes may cause perforation of the nasal septum, bloody nose and other symptoms of severe nasal irritation.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:
May aggravate existing asthma, emphysema, or other respiratory disease.

POTENTIAL ENVIRONMENTAL EFFECTS: None known or expected.

IV. FIRST AID MEASURES

Skin contact: Wipe with absorbent paper or textile towels. Wash with plenty of soap and water. Do not use organic solvents. In case of dermatitis, seek medical attention.

Eye contact: Rinse immediately with water for at least 15 minutes. Seek medical attention immediately.

Inhalation: Move affected person to fresh air. In case of unconsciousness, rest in stable lateral position (recovery position). In case of asphyxia, initiate artificial respiration immediately. Seek medical attention immediately.

Ingestion: Affected person should drink 500 - 800 ml water, if possible with suspended activated carbon for medical use. In case of spontaneous vomiting, be sure that vomitus can freely drain because of danger of suffocation. Give water repeatedly. Artificial induction of vomiting should be restricted to first aid staff. Give nothing by mouth in case of unconsciousness or convulsions. Seek medical attention.

Notes to Physician: Treat symptomatically and supportively.

V. FIRE FIGHTING MEASURES

Flashpoint: LaserForm ST-200 steel metal powder is not a flammable solid as tested by the U.S. DOT standard flammability screening procedures (49CFR 173, Appendix E).

Extinguishing Media: Dry sand or NFPA-approved Class D extinguisher. Without disturbing the burning mass, smother the fire and allow the fire to burn itself out. DO NOT USE CO2 extinguishers or water on metal powder fire.

Unusual Fire or Explosion Hazard: None. Fire or explosion may result by exposing any concentrated dust suspensions to a spark or flame.

Protective Equipment: Self-contained breathing apparatus (SCBA) and protective clothing.

VI. ACCIDENTAL RELEASE MEASURES

Carefully collect all material, place in a suitable labeled container and dispose of according to local and national regulations. Clean-up personnel should wear protective clothing to prevent skin contact, goggles and NIOSH-approved respirators. Use non-sparking equipment to vacuum up the spilled powder and avoid formation of dust clouds. A substantial slipping hazard exists when these small spherical particles are spilled.

VII. HANDLING AND STORAGE

Handling: Avoid spilling powders to prevent slip hazards. Clean spills immediately. Wash after use and before eating, drinking, or smoking.

Storage: Keep containers tightly closed, away from moisture and in a well-ventilated space. Store away from any incompatible materials. Keep away from food and drink. Store in the original container securely closed and at room temperature.

VIII. EXPOSURE CONTROLS, PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>International OELs</th>
</tr>
</thead>
<tbody>
<tr>
<td>7439-89-6</td>
<td>Iron</td>
<td>None established</td>
<td>None established</td>
<td>None established</td>
</tr>
</tbody>
</table>
| 7440-47-3 | Chromium metal  | 0.5 mg/m³ | 1 mg/m³ | Finland: 0.01 mg/m³  
Australia: 0.05 mg/m³  
Belgium, Denmark, France, Netherlands, Norway, Poland, Sweden, Japan, U.K (MEL): 0.5 mg/m³  
Philippines: 1 mg/m³ |

Mixture: Organic Binder

None established

Not hazardous

None established

Personal Protective
Equipment: Wear gloves and eye protection when handling. Provide local exhaust ventilation or general dilution ventilation to maintain exposure levels below the PEL, TLV, or TWA. If exposures above the PEL/TLV/TWA are possible, use a NIOSH-approved dust mask or respirator.

Ventilation: General and local exhaust ventilation, engineering controls and good housekeeping practices are recommended to keep dust concentrations below the permissible exposure limits.

Other Protective Equipment: Eye wash should be available in the immediate work area.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Silver/gray powder
Boiling point: Not available
Solubility in water: Insoluble
Vapor pressure: Not applicable
Partition Coefficient: Not applicable
Explosive Properties: Not explosive
Odor: Odorless
Specific Gravity: Not available
Flashpoint: Not flammable
Ignition: Not applicable
pH-Value: Not applicable
Viscosity: Not applicable

X. STABILITY AND REACTIVITY

Stability: Stable in dry air at room temperature (20°C).
Conditions or materials to avoid: Contact with moist air or humid conditions, or generation of airborne dust. Incompatible with moisture, acids, oxidizers and bases.

Hazardous decomposition products: Thermal decomposition or burning may release oxides of carbon and other toxic or irritating gases or vapors.

Hazardous Polymerization: Will not occur.

XI. TOXICOLOGICAL INFORMATION

For Components:

<table>
<thead>
<tr>
<th>For Product:</th>
<th>For Components:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Iron</td>
</tr>
<tr>
<td>Oral LD₅₀</td>
<td>Believed to be &gt; 5 g/kg</td>
</tr>
<tr>
<td>Dermal LD₅₀</td>
<td>Believed to be &gt; 2 g/kg</td>
</tr>
<tr>
<td>Inhalation LC₅₀</td>
<td>Believed to be slightly toxic</td>
</tr>
<tr>
<td>Irritation</td>
<td>Believed to be a mild eye and respiratory irritant</td>
</tr>
<tr>
<td>Sensitization</td>
<td>Not anticipated to be a sensitizer</td>
</tr>
</tbody>
</table>

Subchronic/Chronic Toxicity Data: No information
Mutagenicity: No information for product.
Carcinogenicity: This product or its components are not known to be carcinogenic. Chromium metal is listed by IARC as Group 3 (not classifiable).

Reproductive, Teratogenicity, Or Developmental Effects: The product is not known or reported to cause reproductive or developmental effects.

Neurological Effects: This product is not known or reported to cause neurological effects.

Interactions With Other Chemicals
Which Enhance Toxicity: None known or reported.

XII. ECOLOGICAL INFORMATION
The aquatic toxicity of the product is unknown, however, based on components, it is not predicted that this material would be toxic to aquatic organisms or cause long-term adverse effects in the aquatic environment.

XIII. DISPOSAL CONSIDERATIONS
Incineration or landfill in accordance with applicable EU, national, or local regulations.

XIV. TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th></th>
<th>US DOT</th>
<th>RID/ADR</th>
<th>IMDG</th>
<th>IATA</th>
<th>IMO</th>
<th>Canada TDG</th>
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</thead>
<tbody>
<tr>
<td>Shipping Name</td>
<td>Iron Grit Powders</td>
<td>Not regulated</td>
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</tr>
<tr>
<td>Hazard Class:</td>
<td>Not regulated</td>
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<td></td>
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</tr>
<tr>
<td>UN Number:</td>
<td>Not regulated</td>
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<td>Packing Group:</td>
<td>Not regulated</td>
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<td></td>
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<td></td>
</tr>
</tbody>
</table>

XV. REGULATORY INFORMATION

US FEDERAL

TSCA: All materials are listed on the TSCA Inventory
CERCLA: Chromium, R.Q. * = 5,000 lbs.
SARA 313: Chromium
SARA 312 Hazard Class: Health: Acute – Yes
Fire: No
Sudden Release of Pressure: No
SARA 302 EHS List: None of the components are listed

STATE RIGHT-TO-KNOW STATUS

<table>
<thead>
<tr>
<th>Component</th>
<th>CA Prop. 65</th>
<th>Michigan</th>
<th>New Jersey</th>
<th>Pennsylvania</th>
<th>Massachusetts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chromium metal</td>
<td>Not listed</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

EUROPEAN/INTERNATIONAL REGULATIONS

Hazard Classification
Danger Symbol: Xi
Risk Phrases: [List phrases here as required by regulation]
Safety Phrases: S 22 Do not breathe dust.
S 43 In case of fire use sand.
Contains [List components here as required by regulation]
Canadian DSL List: The components of this product are on the DSL or are exempt from reporting under the New Substances Notification Regulations.
Canadian IDL: [List components here as required by regulation]
WHMIS: D2B. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

German WGK Classification: Not hazardous to waters.

XVI. ADDITIONAL INFORMATION

MSDS Creation Date: 4/4/02
MSDS Revision #: 9
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