# MATERIAL SAFETY DATA SHEET

**PRODUCT IDENTIFICATION:** Laser Metallic Brush Series

## Section I – Chemical Product and Company Identification

<table>
<thead>
<tr>
<th>Manufacturers Name: Innovative Plastics Inc.</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PO Box 7065, Algonquin, IL 60102</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Phone: (815) 477-0778</th>
<th>EMERGENCY PHONE NUMBERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medical: 911</td>
<td></td>
</tr>
<tr>
<td>Poison Control: 800-589-3897</td>
<td></td>
</tr>
</tbody>
</table>

## Product Description:

- **Laser Metallic Brush Series**
- **Product Synonym(s):** Film-stamped Impact Modified Acrylic
- **Chemical Family:** Acrylic Polymer
- **Chemical Formula:** Mixture
- **Chemical Name:** Mixture
- **EPA Reg Number:**
- **Product Use:** Signage, Other

## Section II – Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>CAS Registry Number</th>
<th>Typical Wt. %</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>P (EA/MMA)</td>
<td>Proprietary</td>
<td>50-54</td>
<td>N</td>
</tr>
<tr>
<td>Acrylic Styrene Copolymer</td>
<td>Proprietary</td>
<td>35-50</td>
<td>N</td>
</tr>
<tr>
<td>Methyl methacrylate</td>
<td>80-62-6</td>
<td>&lt;0.5</td>
<td>Y</td>
</tr>
<tr>
<td>Ethyl acrylate</td>
<td>140-88-5</td>
<td>&lt;0.1</td>
<td>Y</td>
</tr>
<tr>
<td>Aluminum Flake</td>
<td>7429-90-5</td>
<td>1-5</td>
<td></td>
</tr>
<tr>
<td>Carbon Black</td>
<td>1333-86-4</td>
<td>1-5</td>
<td></td>
</tr>
<tr>
<td>Copper</td>
<td>7440-50-8</td>
<td>1-5</td>
<td></td>
</tr>
</tbody>
</table>

The substance(s) marked with a “Y” in the OSHA column are identified as hazardous chemicals according to the criteria of the OSHA Hazardous Communication Standard (29 CFR 1910.1200).

While this material is not classified as hazardous under Federal OSHA regulations, this MSDS contains valuable information critical to the safe handling and proper use of this product. This MSDS should be retained and available for employees and other users of this product.

The components of this product are all on the TSCA Inventory list.
Section III – Hazardous Identification

Emergency Overview:
Various colors with characteristic odor. CAUTION! MELT PROCESSING RELEASES VAPORS WHICH MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION

Potential Health Effects:
Skin contact and inhalation of dust are expected to be the primary routes of occupational exposure to this material. As a finished product, it is a synthetic, high molecular weight polymer pellet. Due to its chemical and physical properties, this material does not require special handling other than the good industrial hygiene and safety practices employed with any industrial material of this type. Ethyl acrylate is listed as a substance that may reasonably be anticipated to be a carcinogen by the National Toxicology Program (NTP) and is classified as “possibly carcinogenic to humans” by the International Agency for Research on Cancer.

Section IV – First Aid

Inhalation Irritation: Move person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Eyes: Immediately flush with plenty of water. Get medical attention if irritation persists.

Skin Contact: Flush the area with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation develops and persists.

Ingestion: Not a hazard in normal industrial use. If ingested, consult a physician.

Section V – Fire and Explosive Hazard

Fire and Explosive Properties
Auto-Ignition Temperature: 393 C/739 F
Flash Point: N/A Flash Point Method
Flammable Limits: Upper: N/A Lower: N/A

Extinguishing Media:
Use water spray, carbon dioxide, foam or dry chemical.

Fire Fighting Instructions:
Fire fighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear (full Bunker Gear) and self-contained breathing apparatus (pressure demand NIOSH approved or equivalent). Fire fighting equipment should be thoroughly decontaminated after use.

Fire and Explosion Hazards:
Heated material can form flammable vapors with air. Can include carbon monoxide, carbon dioxide, small quantities of nitric oxides (NOx), trace levels of hydrogen chloride and acetic
acid. During processing, film may pick up a strong static charge. Avoid discharge into dust or solvent laden air as a flash fire or explosion may result.

Section VI – Accidental Release Measures

IN CASE OF SPILL OR LEAK:
Contain spill. Sweep or scoop up and remove to suitable container. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.

Section VII – Handling and Storage

HANDLING: Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep container closed. Use only with adequate ventilation.

STORAGE: Avoid temperature extremes during storage; ambient temperature preferred. Store away from heat sources of ignition. Do not store in direct sunlight.

Section VIII – Exposure Controls/Personal Protective Equipment

EXPOSURE CONTROLS: Adequate ventilation in work area is needed due to dust or vapors created during fabrication.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

EYE/FACE PROTECTION: Safety glasses or face shield should be used. If exposed to dust, chemical glasses may be required.

SKIN PROTECTION: No precautions other than clean body-covering clothing should be needed. Use insulated gloves for thermal protection, when desired.

RESPIRATORY PROTECTION: In dusty atmospheres, use an approved respirator.

Section IX – Physical Data

APPEARANCE/ODOR: Various colors, characteristic odor
PHYSICAL STATE: Solid
BOILING POINT: N/A
VAPOR PRESSURE: N/A
VAPOR DENSITY: N/A
SPECIFIC GRAVITY: 1.15-1.19
Section X – Stability and Reactivity

CHEMICAL STABILITY: Stable under normal conditions.

CONDITIONS TO AVOID: Prolonged contact with acids, alkalis, and strong oxidizing agents may attack or dissolve the polymer.

Section XI – Toxicology Information

No data available.

Section XII – Ecological Information

MOVEMENT & PARTITIONING: In the terrestrial environment, material is expected to remain in the soil. In the aquatic environment, material will sink and remain in the sediment.

DEGRADATION & PERSISTENCE: This water insoluble polymeric solid is expected to be inert in the environment. Surface photo degradation is expected with exposure to sunlight. No appreciable biodegradation is expected.

ECOTOXICITY: Not expected to be acutely toxic, but chips may mechanically cause adverse effects if ingested by waterfowl or aquatic life.

Section XIII – Disposal Considerations

Disposal must be in accordance with applicable governmental regulations.

Section XIV – Transport Information

DEPARTMENT OF TRANSPORTATION (D.O.T): This product is not regulated by D.O.T. when shipped domestically by land.

CANADIAN TDG INFORMATION: This product is not regulated by TDG when shipped domestically by land.

Section XV – Regulatory Information

(Not meant to be all-inclusive – selected regulations represented)

Hazard Categories Under Criteria of SARA Title III Rules (40 CFR Part 370)

<table>
<thead>
<tr>
<th>Immediate (Acute) Health</th>
<th>N</th>
<th>Delayed (Chronic) Health</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sudden Release of Pressure</td>
<td>N</td>
<td>Reactive</td>
<td>N</td>
</tr>
<tr>
<td>Fire</td>
<td>N</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The components of this product are all on the TSCA inventory list.
INGREDIENT RELATED REGULATORY INFORMATION:

<table>
<thead>
<tr>
<th>SARA REPORTABLE QUANTITIES</th>
<th>CERCLA RQ</th>
<th>SARA TPQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl acrylate</td>
<td>1000 LBS</td>
<td>N/A</td>
</tr>
<tr>
<td>Methyl methacrylate</td>
<td>1000 LBS</td>
<td>N/A</td>
</tr>
<tr>
<td>P (EA/MMA)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Section XV – Regulatory Information (cont’d.)

SARA TITLE III, SECTION 313
This product does contain chemical(s), which are defined as toxic chemicals under and subject to the reporting requirements of, Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 986 and 40 CFR Part 372. See Section 2.

- Ethyl acrylate
- Methyl acrylate
- Aluminum
- Copper

CALIFORNIA PROPOSITION 65 – CARCINOGEN
This product does contain the following chemical(s), as indicated below, currently on the California list of known Carcinogens.

- Ethyl acrylate
- Toluene
- Mercury

This product may contain trace levels of components known to the state of California to cause cancer:

- Antimony (3+) Trioxide
- Arsenic
- Cadmium
- Chromium (6+)
- 3,3’ –Dichlorobenzidine
- Ethyl Acrylate
- Formaldehyde
- Lead
- Nickel
- Selenium Sulphide

NEW JERSEY RIGHT-TO-KNOW: This product does contain the following chemical(s) as indicated below, currently on the New Jersey Right-to-Know Substances list.

- Ethyl acrylate
- Methyl methacrylate
PENNSYLVANIA ENVIRONMENTAL HAZARD
This product does contain the following chemical(s), as indicated below, currently on the Pennsylvania Environmental Hazard list.

   Ethyl acrylate
   Methyl methacrylate

Section XV – Regulatory Information (cont’d.)

PENNSYLVANIA RIGHT-TO-KNOW: This product does contain the following chemical(s), as indicated below, currently on the Pennsylvania Environmental Hazardous Substance list.

   Ethyl acrylate
   Methyl methacrylate
   Chromium (3+)
   Formaldehyde

PENNSYLVANIA SPECIAL HAZARD
This product does contain the following chemical(s), as indicated below, currently on the Pennsylvania Special Hazard list.

   Ethyl acrylate

MASSACHUSETTS RIGHT-TO-KNOW: This product does contain the following chemical(s), as indicated below, currently on the Massachusetts Right-to-Know Substance list.

   Ethyl acrylate
   Methyl methacrylate
   Antimony (3+) Trioxide
   Arsenic
   Cadmium
   Chromium (3+, (6+)
   3,3’-Dichlorobenzidine
   Formaldehyde
   Lead
   Nickel
   Vinyl Acetate

ADDITIONAL INFORMATION

NFPA HAZARD RATING (National Fire Protection Association):

FIRE: Materials that must be preheated before ignition can occur

HEALTH: Materials that under emergency conditions would offer no hazard beyond that of ordinary combustible materials.
REACTIVITY: Materials that, in themselves are normally stable, even under fire exposure conditions.

<table>
<thead>
<tr>
<th>Health</th>
<th>Fire</th>
<th>Reactivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

REASON FOR ISSUE:

The information provided in the Material Safety Data Sheet pertains to the product as supplied by Innovative Plastics Inc.

The descriptions, data and information contained herein are presented in good faith and believed to be accurate. It is provided for your guidance only for your internal safety program. This data sheet is subject to revision as additional knowledge and experiences are gained.