INFRAMAT® ADVANCED MATERIALS, LLC
Material Safety Data Sheet

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SECTION I
MATERIAL IDENTIFICATION

Trade/Material Name: Silver Powder
Description: Silver Powder
Other Designation: (o)-Ag

SECTION II
COMPOSITION AND TOXICITY

<table>
<thead>
<tr>
<th>Composition</th>
<th>%</th>
<th>CAS#</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silver Powder</td>
<td>100</td>
<td>7440-22-4</td>
<td>0.01 mg/m³</td>
<td>0.1 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

* Indicates toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) and supplier certification requirements (40CFR Part 372).
* Contains no asbestos and <1% crystalline silica.
* Indicates on the list of Hazardous Air Pollutants that are regulated under Section 112 of the EPA Clean Air Act, 1990.
N/A - Not Available, NA - Not Applicable, NE - Not Established

SECTION III
PHYSICAL DATA

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point</td>
<td>NE</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>(H₂O = 1): &gt;2</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>NE</td>
</tr>
<tr>
<td>Melting Point</td>
<td>NE</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>NE</td>
</tr>
<tr>
<td>Percentage Volume</td>
<td>NE</td>
</tr>
<tr>
<td>Solubility in water (%)</td>
<td>Insoluble</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>NE</td>
</tr>
<tr>
<td>Appearance and Odor</td>
<td>Grey-brown powder, no odor</td>
</tr>
</tbody>
</table>

SECTION IV
FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): NA
Flammable Limits:
LFL %: NE
UEL %: NE

SECTION V
REACTIVITY DATA

SECTION VI
HEALTH HAZARD DATA

Extinguishing Media: Carbon dioxide, water, water foam, dry chemical.

Special Fire Fighting Procedures: Use self-contained breathing apparatus and protective clothing. If large quantities of material are involved, evacuate area and fight fire from a safe distance.

Unusual Fire and Explosive Hazards: Decomposition and combustion products may be toxic.

Material is stable. Hazardous polymerization will not occur.

Incompatibility (Materials to Avoid): Strong oxidizers, acids, acetylene, ammonia, hydrogen peroxide.

Hazardous Decomposition Products: Thermal or chemical decomposition may produce silver and silver oxide fumes.

COMPONENTS

Silver powder. Inhalation may cause mild irritation. Chronic health hazards. Refer to other sections of the MSDS for more detailed information.

Medical Conditions Which May be Aggravated by Contact: NE

Primary Entry Route(s): Inhalation, skin and eye contact.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Eye Contact: Contact may cause mechanical eye irritation.

Skin Contact: Contact may cause mechanical skin irritation.

Inhalation: Inhalation of dusts may cause irritation of mucous membranes and respiratory tract.

Ingestion: No information available.

Chronic Effects: Prolonged or repeated contact with or inhalation of silver may result in argyria, a blue-gray discoloration of the eyes, skin or other body tissue. Once deposited, there is no known means by which the silver can be eliminated; the pigmentation is permanent.

FIRST AID

Eye Contact: Immediately and thoroughly flush the eyes with large amounts of water occasionally lifting the upper and lower eyelids. Get medical attention if irritation persists.

Skin Contact: Remove contaminated clothing. Remove material from skin and wash area thoroughly with soap and water. Get medical attention if irritation persists.

Inhalation: Remove to fresh air. Get medical attention if irritation persists or breathing becomes difficult.

Ingestion: Get medical attention. Never give anything by mouth to an unconscious, drowsy or convulsing person.
SECTION VII SPILL, LEAK AND DISPOSAL PROCEDURES

Spill/Leak Procedures: Limit access to spill area. Contain the spill and prevent the release from entering sewers or waterways. Collect spilled material for reuse or salvage. Transfer material to appropriate containers. Observe all applicable local, state and federal waste management regulations.

Waste Management And Disposal: Empty product containers, product waste and cleaning media should be stored and disposed of according to the applicable local, state, and federal regulatory guidelines.

SECTION VIII SPECIAL PROTECTION INFORMATION

PERSONAL PROTECTIVE EQUIPMENT

Goggles: Wear safety eye wear including safety glasses with side shields.

Gloves: Wear protective gloves to minimize skin contact.

Respirator: Use NIOSH/MSHA approved respiratory protection if adequate exhaust ventilation is not provided or air sampling indicates exposure limits are exceeded. The type of respirator selected will depend on the conditions of use. Respiratory protection programs must comply with 29 CFR 1910.134

Clothing/Equipment: Wash thoroughly after handling and before eating, drinking or smoking. Remove contaminated clothing or shoes and thoroughly clean before reuse.

WORKPLACE CONSIDERATIONS

Ventilation: Provide local exhaust ventilation to capture dusts generated by the process. Ventilation must be sufficient to maintain airborne levels of Section 2 ingredients below their exposure limits.

Safety Stations: Eye wash station(s) is/are recommended.

Other: Wash facilities are recommended.

SECTION IX HANDLING AND STORAGE PRECAUTIONS

Handling: Avoid contact with eyes. Avoid prolonged or repeated skin contact. Minimize exposure by inhalation. Wash thoroughly after handling and before eating, drinking or smoking. Use with adequate ventilation.

Storage: Store in a cool dry location with adequate ventilation. Store in tightly closed container. Keep away from open flame and heat sources. Prevent contact and storage with incompatible materials.

Condition to Avoid: Avoid storage in open containers, exposure to open flame or exposure to incompatible substances.

Other Precautions: Avoid ingestion, inhalation and excessive skin contact.

SECTION X TRANSPORT INFORMATION

Not a hazardous material for transportation.

DOT Regulations:

Hazard Class: None

Land Transport ADR/RID (cross-border)

ADR/RID Class: None

Maritime Transport IMDG:

IMDG Class: None

Air Transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: None

Transport/Additional Information: Not dangerous according to the above specifications.

SECTION XI REGULATIONS

PRODUCT RELATED HAZARD INFORMATION:

Observe the general safety regulations when handling chemicals.

Hazard Symbols: None

Risk Phrases: None

Safety Phrases: None

National Regulations: All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory.

Information about limitation of use: For use only by technically qualified individuals.

SECTION XII OTHER INFORMATION

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.