1. **IDENTIFICATION OF THE SUBSTANCE/PREPARATION:**

Product Name: Silver Paint

Date of Prep: October 22, 2013

MSDS #: 901185.001

Revision: A

2. **COMPOSITION/INFORMATION ON INGREDIENTS:**

<table>
<thead>
<tr>
<th>CHEMICAL INGREDIENT NAME</th>
<th>CAS NUMBER</th>
<th>EC NUMBER</th>
<th>% BY WT.</th>
<th>EXPOSURE LIMITS</th>
<th>EU LABEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silver</td>
<td>7440-22-4</td>
<td>231-131-3</td>
<td>~29.6</td>
<td>0.01 mg/m³</td>
<td>OSHA</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.01 mg/m³</td>
<td>ACGIH</td>
</tr>
<tr>
<td>n-Butyl Acetate</td>
<td>123-86-4</td>
<td>204-658-1</td>
<td>~70.4</td>
<td>150 ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>150 ppm</td>
<td></td>
</tr>
</tbody>
</table>

Notes:

3. **HAZARDS IDENTIFICATION:** Irritant: eyes, skin and respiratory. Flammable liquid.

4. **FIRST AID MEASURES:**

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

Skin Contact: Wash off with soap and plenty of water. Seek medical attention if irritation develops.

Eye Contact: Rinse thoroughly with plenty of water for 20-30 minutes. Get immediate medical attention.

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get immediate medical attention.

Note to physician:

5. **FIRE-FIGHTING MEASURES:**

Flammable Properties: Flammable in the presence of a source of ignition when the temperature is above the flash point (73-78°F)

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

Unique Aspects Contributing To a Fire: Vapors are heavier than air and may travel considerable distance along the ground, or may be moved by ventilation, to a source of ignition.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus for firefighting, if necessary.

Note: Hazardous decomposition products formed under fire conditions: carbon oxides.

6. **ACCIDENTAL RELEASE MEASURES:**

Wear protective equipment appropriate for the release levels anticipated, including protective clothing, gloves, goggles, and respirator. Avoid contact with skin and eyes. Avoid breathing vapor at concentration greater than exposure limits. Remove all sources of ignition. Contain spillage and absorb liquid on paper, vermiculite, floor absorbent or other absorbent material. Place in container for disposal according to local regulations.

7. **HANDLING AND STORAGE:** Keep container tightly closed in a dry and well-ventilated place. Do not store with incompatible materials. Prevent exposure to high temperatures, open flames or other ignition sources.

8. **EXPOSURE CONTROLS/PERSONAL PROTECTION:**

Handle in accordance with good laboratory practices.

Respiratory Protection: If exposure limits are expected to be exceeded, use a full face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as backup.

Eye Protection: Safety glasses with side shields.

Skin Protection: Wear impermeable (nitrile rubber) gloves. Wear impermeable clothing and shoes.

Engineering Controls: Use sufficient ventilation to maintain exposure below limits. Special attention should be given to low lying areas where vapors can accumulate.
### 9. PHYSICAL AND CHEMICAL PROPERTIES:

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Silver color</td>
</tr>
<tr>
<td>Physical State</td>
<td>liquid</td>
</tr>
<tr>
<td>Flash Point</td>
<td>23-26°C (73-78°F)</td>
</tr>
<tr>
<td>Explosion Limits</td>
<td>LEL (1.7%) UEL (7.6%)</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>8-15 mm Hg</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>(air=1): 4</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>124-126°C (255-259°F)</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>NE</td>
</tr>
<tr>
<td>Odor</td>
<td>NE</td>
</tr>
<tr>
<td>pH</td>
<td>NE</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>NE</td>
</tr>
<tr>
<td>Melting Point</td>
<td>NE</td>
</tr>
</tbody>
</table>

### 10. STABILITY AND REACTIVITY:

<table>
<thead>
<tr>
<th>Hazardous Polymerization</th>
<th>Will Not Occur</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stability</td>
<td>Stable</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hazardous Decomposition/Combustion Products</th>
<th>Conditions &amp; Materials to Avoid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon oxides</td>
<td>Heat, flame and sparks. Strong oxidizing or reducing agents, strong bases.</td>
</tr>
</tbody>
</table>

### 11. TOXICOLOGICAL INFORMATION:

**Primary Route(s) of Exposure Under Normal Use:** Inhalation of vapors.

**Target Organ(s):** NE

**Acute Effects:** May cause drowsiness or dizziness; nasal or respiratory irritation; headache; unconsciousness. May be harmful if swallowed; may cause vomiting, diarrhea and possibly coma or death. May be harmful if absorbed through skin. May cause skin irritation. Causes eye irritation.

**Chronic Effects:** May cause drowsiness or dizziness; nasal or respiratory irritation; headache; unconsciousness. May be harmful if swallowed; may cause vomiting, diarrhea and possibly coma or death. May be harmful if absorbed through skin. May cause skin irritation. Causes eye irritation.

**Other Information:**
- LD50 oral – rat – 10,700-14,130 mg/kg.
- LC50 inhalation – rat – 4 h – 9.6 -29.2 mg/l.
- LD50 dermal – rabbit – 17,600 mg/kg.
- No ingredients are listed as carcinogens.

### 12. ECOLOGICAL INFORMATION:

Harmful to aquatic life. LC50 – bluegill – 100 mg/l – 96 h; EC50 – water flea – 72.8-205 mg/l – 24 h.

### 13. DISPOSAL CONSIDERATIONS:

Incinerate. Dispose of in accordance with all local, state and federal regulations.

### 14. TRANSPORT INFORMATION:

**U.S. DOT:**
- Shipping Name: Flammable liquid
- Hazard Class: Flammable liquid
- UN/NA #: Packing Group #: class III

**IATA/ICAO:**
- Classification: class 3, packing group III

### 15. REGULATORY INFORMATION:

**EU Risk/Safety Phrases:**

**U.S. TOSCA:** Flammable liquid; This product does not contain any chemicals known to the state of California to cause cancer, birth defects or any other reproductive harm.

**Canada:**

### 16. OTHER INFORMATION:

**U.S. EPA SARA**
- 313 Chemicals: None
- CERCLA RQ: 4= Severe Hazard
- National Fire Protection Association Rating
  - HEALTH: 2
  - FLAMMABILITY: 3
  - REACTIVITY: 0
  - OTHER: 0

**Notes:** Not Established (NE) means a value has not been set or there is no information available. Not Applicable (NA) means that the topic is not pertinent.