Safety Data Sheet

Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier

Product Name • Silver Paste Plus
Synonyms • Silver Composition; SPI Supplies® Silver Paste Plus™
Product Code • 05063-AB

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified use(s) • Mounting of samples for scanning electron microscopy; mounting of silicon wafers when producing high temperature thin film superconductor materials; PC board repairs and other electronic industry applications.

1.3 Details of the supplier of the safety data sheet

Manufacturer • SPI Supplies Division Structure Probe, Inc.
206 Garfield Ave.
West Chester, PA 19380
United States
http://www.2spi.com
SDS@2spi.com

Telephone (General) • 1-(610)-436-5400

1.4 Emergency telephone number

Manufacturer • 1-(800)-424-9300 - Chemtrec
Manufacturer • 1-(703)-741-5970 - Worldwide

Section 2: Hazards Identification

EU/EEC

2.1 Classification of the substance or mixture

CLP • Flammable Liquids 3 - H226
Hazardous to the aquatic environment Chronic 2 - H411

2.2 Label Elements

CLP

WARNING

Hazard statements • H226 - Flammable liquid and vapour
H411 - Toxic to aquatic life with long lasting effects

Precautionary statements

Prevention • P233 - Keep container tightly closed.
P235 - Keep cool.
P240 - Ground and/or bond container and receiving equipment.
P241 - Use explosion-proof electrical/ventilating/lighting/equipment.
P242 - Use only non-sparking tools.
P243 - Take precautionary measures against static discharge.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Response • P370+P378 - In case of fire: Use appropriate media for extinction.
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P391 - Collect spillage.

Storage/Disposal • P403+P235 - Store in a well-ventilated place. Keep cool.
P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

2.3 Other Hazards

CLP • Heating above the melting point releases metallic oxides which may cause metal fume fever by inhalation. The symptoms are shivering, fever, malaise and muscular pain. Repeated exposure to silver can cause argyria/argyrosis, a grey-blue discoloration of the eyes, nose, throat, skin and internal organs. According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.

United States (US)
According to: OSHA 29 CFR 1910.1200 HCS

2.1 Classification of the substance or mixture

OSHA HCS 2012 • Flammable Liquids 3
Hazards Not Otherwise Classified - Health Hazards - Metal fume fever, and argyria, a blue-gray discoloration of the skin, mucous membranes, and eyes

2.2 Label elements

OSHA HCS 2012

WARNING

Hazard statements • Flammable liquid and vapour
Precautionary statements

Prevention • Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.
Keep container tightly closed.
Keep cool.
Ground and/or bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wear protective gloves/protective clothing/eye protection/face protection.

Response • In case of fire: Use to extinguish.
Take off immediately all contaminated clothing.

Storage/Disposal • Store in a well-ventilated place. Keep cool.
Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

2.3 Other hazards

### Section 3 - Composition/Information on Ingredients

#### 3.1 Substances

- Material does not meet the criteria of a substance.

#### 3.2 Mixtures

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Identifiers</th>
<th>%</th>
<th>LD50/LC50</th>
<th>Classifications According to Regulation/Directive</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silver</td>
<td>CAS:7440-22-4 EC Number:231-131-3</td>
<td>60% TO 70%</td>
<td>NDA</td>
<td>EU CLP: Aquatic Chronic 2, H411 OSHA HCS 2012: Hazard Not Otherwise Classified - Health Hazard - Metal fume fever, and argyria, a blue-gray discoloration of the skin, mucous membranes, and eyes</td>
<td>NDA</td>
</tr>
<tr>
<td>1-Methoxy-2-propanol acetate</td>
<td>CAS:108-65-6 EC Number:203-603-9 EU Index:607-195-00-7</td>
<td>10% TO 20%</td>
<td>Ingestion/Oral-Rat LD50 • 8532 mg/kg Skin-Rabbit LD50 • &gt;5 g/kg</td>
<td>EU CLP: Annex VI, Table 3.1: Flam. Liq. 3, H226 OSHA HCS 2012: Not Classified</td>
<td>NDA</td>
</tr>
<tr>
<td>2-Propenoic acid, 2-methyl -, polymer with ethyl 2-methyl-2-propenoate and methyl 2-propenoate</td>
<td>CAS:65859-05-4</td>
<td>1% TO 10%</td>
<td>NDA</td>
<td>EU CLP: Not Classified OSHA HCS 2012: Not Classified</td>
<td>NDA</td>
</tr>
<tr>
<td>Organic solvent</td>
<td>NDA</td>
<td>&lt;0.1% TO 0.1%</td>
<td>NDA</td>
<td>EU CLP: Acute Tox. 4, H302; Acute Tox. 4, H312; Aquatic Chronic 3, H412 OSHA HCS 2012: Acute Tox. 4 (Orl); Acute Tox. 4 (Skin)</td>
<td>NDA</td>
</tr>
<tr>
<td>Toluene</td>
<td>CAS:108-88-3 EC Number:203-625-9 EU Index:601-021-00-3</td>
<td>&lt;0.1%</td>
<td>Ingestion/Oral-Rat LD50 • 636 mg/kg Skin-Rabbit LD50 • 14100 µL/kg Inhalation-Rat LC50 • 49 g/m³ 4 Hour(s)</td>
<td>EU CLP: Community Workplace Exposure Limits OSHA HCS 2012: Exposure Limits</td>
<td>NDA</td>
</tr>
<tr>
<td>Ethylene glycol monobutyl ether acetate</td>
<td>CAS:112-07-2 EC Number:203-933-3 EU Index:607-038-00-2</td>
<td>&lt;0.1%</td>
<td>NDA</td>
<td>EU CLP: Community Workplace Exposure Limits OSHA HCS 2012: Exposure Limits</td>
<td>NDA</td>
</tr>
</tbody>
</table>

See Section 16 for full text of H-statements.

### Section 4 - First Aid Measures

#### 4.1 Description of first aid measures

**Inhalation**

- Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. Get medical attention immediately.

**Skin**

- Wash skin with soap and water. Remove and isolate contaminated clothing. If irritation develops and persists, get medical attention.
Eye • In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. If eye irritation persists: Get medical advice/attention.

Ingestion • Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Obtain medical attention immediately if ingested.

4.2 Most important symptoms and effects, both acute and delayed
• Refer to Section 11 - Toxicological Information.

4.3 Indication of any immediate medical attention and special treatment needed
Notes to Physician • All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Section 5 - Firefighting Measures

5.1 Extinguishing media
Suitable Extinguishing Media • In case of fire use media as appropriate for surrounding fire.

Unsuitable Extinguishing Media • Do not use a direct stream of water.

5.2 Special hazards arising from the substance or mixture
Unusual Fire and Explosion Hazards • HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames. Containers may explode when heated. Many liquids are lighter than water. Vapors may form explosive mixtures with air. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapors may travel to source of ignition and flash back. Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard.

Hazardous Combustion Products • Hazardous decomposition products formed under fire conditions.

5.3 Advice for firefighters
• Structural firefighters' protective clothing will only provide limited protection. Wear positive pressure self-contained breathing apparatus (SCBA). Move containers from fire area if you can do it without risk. LARGE FIRES: Cool containers with flooding quantities of water until well after fire is out.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures
Personal Precautions • CAUTION: Victim may be a source of contamination. Do not walk through spilled material. Use appropriate Personal Protective Equipment (PPE)

Emergency Procedures • As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. LARGE SPILL: Consider initial downwind evacuation for at least 300 meters (1000 feet) ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering.

6.2 Environmental precautions
• Prevent entry into waterways, sewers, basements or confined areas.

6.3 Methods and material for containment and cleaning up
Containment/Clean-up Measures • Stop leak if you can do it without risk. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
Use clean non-sparking tools to collect absorbed material. A vapor suppressing foam may be used to reduce vapors. All equipment used when handling the product must be grounded. LARGE SPILLS: Dike far ahead of liquid spill for later disposal. LARGE SPILLS: Water spray may reduce vapor; but may not prevent ignition in closed spaces.

6.4 Reference to other sections
- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

Section 7 - Handling and Storage

7.1 Precautions for safe handling
Handling
- Use only in well ventilated areas. Keep away from heat, sparks, and flame. Do not use sparking tools. Take precautionary measures against static charges. All equipment used when handling the product must be grounded. Wear appropriate personal protective equipment, avoid direct contact. Avoid breathing fume, mist, vapours and/or spray. Avoid contact with skin, eyes, and clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

7.2 Conditions for safe storage, including any incompatibilities
Storage
- Do not reuse empty container. Store in a tightly closed container. Store in a cool, dry, well-ventilated place. Keep away from sources of ignition – No Smoking.

7.3 Specific end use(s)
- This item is not being offered for clinical or diagnostic applications, agricultural uses or for human or animal consumption. Refer to Section 1.2 - Relevant identified uses.

Section 8 - Exposure Controls/Personal Protection

8.1 Control parameters

<table>
<thead>
<tr>
<th></th>
<th>ACGIH</th>
<th>NIOSH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene (108-88-3)</td>
<td>Ceilings Not established Not established 300 ppm Ceiling</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>TWAs 20 ppm TWA</td>
<td>100 ppm TWA; 375 mg/m3 TWA 200 ppm TWA</td>
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<tr>
<td></td>
<td>STELs Not established</td>
<td>150 ppm STEL; 560 mg/m3 STEL</td>
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<tr>
<td>Ethylene glycol monobutyl ether acetate (112-07-2)</td>
<td>TWAs 20 ppm TWA</td>
<td>5 ppm TWA; 33 mg/m3 TWA</td>
<td>Not established</td>
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<tr>
<td>Silver (7440-22-4)</td>
<td>TWAs 0.1 mg/m3 TWA (dust and fume)</td>
<td>0.01 mg/m3 TWA (dust)</td>
<td>0.01 mg/m3 TWA</td>
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</table>

8.2 Exposure controls

Engineering Measures/Controls
- Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Use explosion-proof electrical/ventilating/lighting/equipment.

Personal Protective Equipment
- Respiratory
  - Follow the OSHA respirator regulations found in 29 CFR 1910.134. Use a NIOSH/MSHA approved respirator if exposure limits are exceeded or symptoms are experienced.
- Eye/Face
  - Wear safety goggles.
Skin/Body

- Wear appropriate gloves.

Environmental Exposure Controls

- Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow best practice for site management and disposal of waste.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

STEL = Short Term Exposure Limits are based on 15-minute exposures

NIOSH = National Institute of Occupational Safety and Health

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

OSHA = Occupational Safety and Health Administration

Section 9 - Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Material Description</th>
<th>Physical Form</th>
<th>Appearance/Description</th>
<th>Odor Threshold</th>
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<td>Physical Form</td>
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<td>Color</td>
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<th>Melting Point/Freezing Point</th>
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<table>
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<th>Specific Gravity/Relative Density</th>
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<th>Viscosity</th>
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<td>Data lacking</td>
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<thead>
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<th>Viscosity</th>
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<table>
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<th>Explosive Properties</th>
<th>Oxidizing Properties:</th>
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<td>Data lacking</td>
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<th>Vapor Pressure</th>
<th>Vapor Density</th>
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<table>
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<th>Evaporation Rate</th>
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<td>Data lacking</td>
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</tbody>
</table>

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<th>Flash Point</th>
<th>UEL</th>
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<td>51 °C (123.8 °F) CC (Closed Cup)</td>
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<table>
<thead>
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<th>Flammability (solid, gas)</th>
<th>Autoignition</th>
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<tbody>
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<td>Data lacking</td>
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<table>
<thead>
<tr>
<th>Environmental</th>
<th>Octanol/Water Partition coefficient</th>
<th>Data lacking</th>
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<tbody>
<tr>
<td>Data lacking</td>
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<td></td>
</tr>
</tbody>
</table>

9.2 Other Information

- No additional physical and chemical parameters noted.

Section 10: Stability and Reactivity

10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

- Stable under normal temperatures and pressures.

10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur.

10.4 Conditions to avoid

- Keep away from heat, sparks and flame.

10.5 Incompatible materials
• Acids, bases, and strong oxidizing agents.

10.6 Hazardous decomposition products
• Under fire conditions: Carbon monoxide, carbons dioxide, unburned hydrocarbons, metal oxides.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

<table>
<thead>
<tr>
<th>Components</th>
<th>Multi-dose Toxicity: Ingestion/Oral-Rat TDLo • 8400 mg/kg 28 Day(s)-Intermittent; Blood:Changes in serum composition (e.g., TP, bilirubin cholesterol); Blood:Changes in erythrocyte (RBC) count; Biochemical:Enzyme inhibition, induction, or change in blood or tissue levels:Phosphatases</th>
<th>Acute Toxicity: Ingestion/Oral-Rat LD50 • 8532 mg/kg; Skin-Rabbit LD50 • &gt;5 g/kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silver (60% TO 70%)</td>
<td>7440-22-4</td>
<td>Silver Paste Plus</td>
</tr>
<tr>
<td>1-Methoxy-2-propanol acetate (10% TO 20%)</td>
<td>108-65-6</td>
<td></td>
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</table>

GHS Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Classification</th>
</tr>
</thead>
</table>
| Acute toxicity | EU/CLP • Data lacking  
OSHA HCS 2012 • Data lacking |
| Skin corrosion/Irritation | EU/CLP • Data lacking  
OSHA HCS 2012 • Data lacking |
| Serious eye damage/Irritation | EU/CLP • Data lacking  
OSHA HCS 2012 • Data lacking |
| Skin sensitization | EU/CLP • Data lacking  
OSHA HCS 2012 • Data lacking |
| Respiratory sensitization | EU/CLP • Data lacking  
OSHA HCS 2012 • Data lacking |
| Aspiration Hazard | EU/CLP • Data lacking  
OSHA HCS 2012 • Data lacking |
| Carcinogenicity | EU/CLP • Data lacking  
OSHA HCS 2012 • Data lacking |
| Germ Cell Mutagenicity | EU/CLP • Data lacking  
OSHA HCS 2012 • Data lacking |
| Toxicity for Reproduction | EU/CLP • Data lacking  
OSHA HCS 2012 • Data lacking |
| STOT-SE | EU/CLP • Data lacking  
OSHA HCS 2012 • Data lacking |
| STOT-RE | EU/CLP • Data lacking  
OSHA HCS 2012 • Data lacking |

Potential Health Effects

Inhalation
• Acute (Immediate) • No data available
• Chronic (Delayed) • No data available

Skin
### 11.2 Other information

- Heating above the melting point releases metallic oxides which may cause metal fume fever which is an influenza like illness. Symptoms include headache, metallic taste in the mouth, cough, thirst, throat irritation, shortness of breath, fever, sweating and pain in the limbs. This illness is not permanent and recovery usually occurs within 24-48 hours after onset.

---

**Key to abbreviations**

LD = Lethal Dose  
TD = Toxic Dose

---

**Section 12 - Ecological Information**

#### 12.1 Toxicity

| Components | Aquatic Toxicity-Fish: 96 Hour(s) LC50 *Pimephales promelas* (Fathead Minnow) 0.00213 mg/L Comments: Influence of Water Quality Parameters on Silver Toxicity: Preliminary Result.  
14 Day(s) NOEC *Oryzias latipes* (Japanese Medaka) 0.05 mg/L Comments: Silver Nanoparticles Cause Oxidative Damage and Histological Changes in Medaka (Oryzias latipes) After 14 Days of Exposure.  
Aquatic Toxicity-Crustacea: 7 Day(s) NOEC Water Flea 0.0011 mg/L Comments: The Effects of Silver on Green Algae and Prospects for Trophic Transfer.  
48 Hour(s) EC50 Water Flea 0.00024 mg/L Comments: Metal Toxicity Tests.  
Aquatic Toxicity-Algae and Other Aquatic Plant(s): 96 Hour(s) EC50 *Chroomonas sp.* (*Cryptomonad*) 0.0014 mg/L Comments: Silver Transport and Impact in Estuarine and Marine Systems. |  
| Silver (60% TO 70%) | 7440-22-4 |  
| |  

- Toxic to aquatic life with long lasting effects.

#### 12.2 Persistence and degradability

- Material data lacking.

#### 12.3 Bioaccumulative potential

- Material data lacking.

#### 12.4 Mobility in Soil

- Material data lacking.

#### 12.5 Results of PBT and vPvB assessment

- No PBT and vPvB assessment has been conducted.

#### 12.6 Other adverse effects

- No studies have been found.
Section 13 - Disposal Considerations

13.1 Waste treatment methods
Product waste • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

<table>
<thead>
<tr>
<th></th>
<th>14.1 UN number</th>
<th>14.2 UN proper shipping name</th>
<th>14.3 Transport hazard class(es)</th>
<th>14.4 Packing group</th>
<th>14.5 Environmental hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
<td>UN1263</td>
<td>Paint related material</td>
<td>3</td>
<td>III</td>
<td>NDA</td>
</tr>
<tr>
<td>IMO/IMDG</td>
<td>UN1263</td>
<td>PAINT RELATED MATERIAL</td>
<td>3</td>
<td>III</td>
<td>NDA</td>
</tr>
<tr>
<td>IATA/ICAO</td>
<td>UN1263</td>
<td>Paint related material</td>
<td>3</td>
<td>III</td>
<td>NDA</td>
</tr>
</tbody>
</table>

14.6 Special precautions for user • None specified.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code • Data lacking.

Section 15 - Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
SARA Hazard Classifications • Acute, Fire

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>EU EINECS</th>
<th>EU ELNICS</th>
<th>TSCA</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Methoxy-2-propanol acetate</td>
<td>108-65-6</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>2-Propenoic acid, 2-methyl-, polymer with ethyl 2-methyl-2-propenoate and methyl 2-propenoate</td>
<td>65859-05-4</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Ethylene glycol monobutyl ether acetate</td>
<td>112-07-2</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Silver</td>
<td>7440-22-4</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

United States

Labor
U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals
• Silver 7440-22-4 Not Listed
• Toluene 108-88-3 Not Listed
• 1-Methoxy-2-propanol acetate 108-65-6 Not Listed
• Ethylene glycol monobutyl ether acetate 112-07-2 Not Listed
• 2-Propenoic acid, 2-methyl-, polymer with ethyl 2-methyl-2-propenoate and methyl 2-propenoate 65859-05-4 Not Listed

U.S. - OSHA - Specifically Regulated Chemicals
• Silver 7440-22-4 Not Listed
• Toluene 108-88-3 Not Listed
• 1-Methoxy-2-propanol acetate 108-65-6 Not Listed
• Ethylene glycol monobutyl ether acetate 112-07-2 Not Listed
• 2-Propenoic acid, 2-methyl-, polymer with ethyl 2-methyl-2-propenoate and methyl 2-propenoate 65859-05-4 Not Listed

Environment
U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants
• Silver 7440-22-4 Not Listed
• Toluene 108-88-3 Not Listed
• 1-Methoxy-2-propanol acetate 108-65-6 Not Listed
• Ethylene glycol monobutyl ether acetate 112-07-2 Not Listed
• 2-Propenoic acid, 2-methyl-, polymer with ethyl 2-methyl-2-propenoate and methyl 2-propenoate 65859-05-4 Not Listed

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

• Silver 7440-22-4 Not Listed

• Toluene 108-88-3

• 1-Methoxy-2-propanol acetate 108-65-6 Not Listed
• Ethylene glycol monobutyl ether acetate 112-07-2 Not Listed
• 2-Propenoic acid, 2-methyl-, polymer with ethyl 2-methyl-2-propenoate and methyl 2-propenoate 65859-05-4 Not Listed

U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

• Silver 7440-22-4 Not Listed

• Toluene 108-88-3

• 1-Methoxy-2-propanol acetate 108-65-6 Not Listed
• Ethylene glycol monobutyl ether acetate 112-07-2 Not Listed
• 2-Propenoic acid, 2-methyl-, polymer with ethyl 2-methyl-2-propenoate and methyl 2-propenoate 65859-05-4 Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

• Silver 7440-22-4 Not Listed
• Toluene 108-88-3 Not Listed
• 1-Methoxy-2-propanol acetate 108-65-6 Not Listed
• Ethylene glycol monobutyl ether acetate 112-07-2 Not Listed
• 2-Propenoic acid, 2-methyl-, polymer with ethyl 2-methyl-2-propenoate and methyl 2-propenoate 65859-05-4 Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs
Silver Paste Plus

Preparation Date: 21/February/2014
Revision Date: 19/December/2016
Format: EU CLP/REACH Language: English (US)
EU CLP, OSHA HCS 2012

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- Silver 7440-22-4 Not Listed
- Toluene 108-88-3 Not Listed
- 1-Methoxy-2-propanol acetate 108-65-6 Not Listed
- Ethylene glycol monobutyl ether acetate 112-07-2 Not Listed
- 2-Propenoic acid, 2-methyl-, polymer with ethyl 2-methyl-2-propenoate and methyl 2-propenoate 65859-05-4 Not Listed

**U.S. - CERCLA/SARA - Section 313 - Emission Reporting**
- Silver 7440-22-4 1.0 % de minimis concentration
- Toluene 108-88-3 1.0 % de minimis concentration
- 1-Methoxy-2-propanol acetate 108-65-6 Not Listed
- Ethylene glycol monobutyl ether acetate 112-07-2 Not Listed
- 2-Propenoic acid, 2-methyl-, polymer with ethyl 2-methyl-2-propenoate and methyl 2-propenoate 65859-05-4 Not Listed

**U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing**
- Silver 7440-22-4 Not Listed
- Toluene 108-88-3 Not Listed
- 1-Methoxy-2-propanol acetate 108-65-6 Not Listed
- Ethylene glycol monobutyl ether acetate 112-07-2 Not Listed
- 2-Propenoic acid, 2-methyl-, polymer with ethyl 2-methyl-2-propenoate and methyl 2-propenoate 65859-05-4 Not Listed

**United States - California**

**Environment**

**U.S. - California - Proposition 65 - Carcinogens List**
- Silver 7440-22-4 Not Listed
- Toluene 108-88-3 Not Listed
- 1-Methoxy-2-propanol acetate 108-65-6 Not Listed
- Ethylene glycol monobutyl ether acetate 112-07-2 Not Listed
- 2-Propenoic acid, 2-methyl-, polymer with ethyl 2-methyl-2-propenoate and methyl 2-propenoate 65859-05-4 Not Listed

**U.S. - California - Proposition 65 - Developmental Toxicity**
- Silver 7440-22-4 Not Listed
developmental toxicity, 1/1/1991
- Toluene 108-88-3 1/1/1991
- 1-Methoxy-2-propanol acetate 108-65-6 Not Listed
- Ethylene glycol monobutyl ether acetate 112-07-2 Not Listed
- 2-Propenoic acid, 2-methyl-, polymer with ethyl 2-methyl-2-propenoate and methyl 2-propenoate 65859-05-4 Not Listed

**U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)**
- Silver 7440-22-4 Not Listed
- Toluene 108-88-3 7000 µg/day MADL (level represents absorbed dose)
- 1-Methoxy-2-propanol acetate 108-65-6 Not Listed
- Ethylene glycol monobutyl ether acetate 112-07-2 Not Listed
- 2-Propenoic acid, 2-methyl-, polymer with ethyl 2-methyl-2-propenoate and methyl 2-propenoate 65859-05-4 Not Listed

**U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)**
- Silver 7440-22-4 Not Listed
- Toluene 108-88-3 Not Listed
15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

15.3 Other Information

- WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Section 16 - Other Information

Relevant Phrases (code & full text)

- H302 - Harmful if swallowed
- H312 - Harmful in contact with skin
- H412 - Harmful to aquatic life with long lasting effects

Revision Date

- 19/December/2016

Preparation Date

- 21/February/2014

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**Key to abbreviations**

NDA = No Data Available