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

According to: Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 2015/830]

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

OSHA HCS 2012 • Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Section 3 - Composition/Information on Ingredients

3.1 Substances

- Material does not meet the criteria of a substance.

3.2 Mixtures

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

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

Exposure Limits/Guidelines				
	Result	**ACGIH**	**NIOSH**	**OSHA**
Toluene (108-88-3)	Ceilings	Not established	Not established	300 ppm Ceiling
	TWAs	20 ppm TWA	100 ppm TWA; 375 mg/m3 TWA	200 ppm TWA
	STELs	Not established	150 ppm STEL; 560 mg/m3 STEL	Not established
Ethylene glycol monobutyl ether acetate (112-07-2)	TWAs	20 ppm TWA	5 ppm TWA; 33 mg/m3 TWA	Not established
Silver (7440-22-4)	TWAs	0.1 mg/m3 TWA (dust and fume)	0.01 mg/m3 TWA (dust)	0.01 mg/m3 TWA

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
NIOSH = National Institute of Occupational Safety and Health
OSHA = Occupational Safety and Health Administration
STEL = Short Term Exposure Limits are based on 15-minute exposures
TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

Section 9 - Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Grey viscous liquid with acrylic-like odor.
Color	Grey	Odor	Acrylic-like odor.
Odor Threshold	Data lacking		
General Properties			
Boiling Point	Data lacking	Melting Point/Freezing Point	Data lacking
Decomposition Temperature	Data lacking	pH	Data lacking
Specific Gravity/Relative Density	Data lacking	Density	3 g/mL
Water Solubility	Slightly Soluble	Viscosity	Data lacking
Explosive Properties	Data lacking	Oxidizing Properties:	Data lacking
Volatility			
Vapor Pressure	Data lacking	Vapor Density	Data lacking
Evaporation Rate	Data lacking		
Flammability			
Flash Point	51 °C(123.8 °F) CC (Closed Cup)	UEL	Data lacking
LEL	Data lacking	Autoignition	Data lacking
Flammability (solid, gas)	Data lacking		
Environmental			
Octanol/Water Partition coefficient	Data lacking		

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

Components		
Silver (60% TO 70%)	7440-22-4	**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**
1-Methoxy-2-propanol acetate (10% TO 20%)	108-65-6	**Acute Toxicity:** Ingestion/Oral-Rat LD50 • 8532 mg/kg; Skin-Rabbit LD50 • >5 g/kg

GHS Properties	Classification
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

Acute (Immediate)
- No data available

Chronic (Delayed)
- No data available

Eye

Acute (Immediate)
- No data available

Chronic (Delayed)
- No data available

Ingestion

Acute (Immediate)
- No data available

Chronic (Delayed)
- No data available

Other

Chronic (Delayed)
- Repeated exposure to silver can cause argyria/argyrosis, a grey-blue discoloration of the eyes, nose, throat, skin and internal organs.

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		
Silver (60% TO 70%)	7440-22-4	**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

- 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

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

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

Inventory				
Component	**CAS**	**EU EINECS**	**EU ELNICS**	**TSCA**
1-Methoxy-2-propanol acetate	108-65-6	Yes	No	Yes
2-Propenoic acid, 2-methyl-, polymer with ethyl 2-methyl-2-propenoate and methyl 2-propenoate	65859-05-4	No	No	Yes
Ethylene glycol monobutyl ether acetate	112-07-2	Yes	No	Yes
Silver	7440-22-4	Yes	No	Yes
Toluene	108-88-3	Yes	No	Yes

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	
• 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	1000 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm); 454 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm)
• Toluene	108-88-3	1000 lb final RQ; 454 kg final RQ
• 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	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 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	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
• Toluene	108-88-3	developmental toxicity, 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

• 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 - Reproductive Toxicity - Female		
• 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 - Reproductive Toxicity - Male		
• 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

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

Disclaimer/Statement of Liability

- Caution! Do not use SPI Supplies products or materials in applications involving implantation within the body; direct or indirect contact with the blood pathway; contact with bone, tissue, tissue fluid, or blood; or prolonged contact with mucous membranes. Products offered by SPI Supplies are not designed or manufactured for use in implantation in the human body or in contact with internal body fluids or tissues. SPI Supplies will not provide to customers making devices for such applications any notice, certification, or information necessary for such medical device use required by US FDA (Food and Drug Administration) regulation or any other statute. SPI Supplies and Structure Probe, Inc. make no representation, promise, express warranty or implied warranty concerning the suitability of these materials for use in implantation in the human body or in contact with internal body tissues of fluids. The information and recommendations set forth above are taken from sources believed to be accurate as of the date hereof, however SPI Supplies and Structure Probe, Inc. make no warranty with respect to the accuracy of the information or the suitability of the recommendations, and assume no liability to any user thereof. The information contained in this sheet does not constitute a hazard assessment and should not be used in place of the user's own assessment of work place risks as required by other health and safety legislation. Be aware of the Structure Probe, Inc. Copyright Policy. Structure Probe, Inc. grants a nonexclusive license to make unlimited copies of this safety sheet for internal use only. Quite obviously, this

information would pertain only to this material when purchased from SPI Supplies as product from other sources, with other ingredients and impurity levels could have substantially different properties.

Key to abbreviations

NDA = No Data Available