

SPI Supplies Division

Structure Probe, Inc.

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Manufacturer's CAGE: 1P573

Safety Data Sheet

Date Effective: April 22, 2015

04969-AB, 04969A-AB

SPI Supplies® LVOC Silver Paint

Section 1: Identification

Chemical Name/Synonyms..... Silver Paint

Chemical family..... Mixture

Emergencies

Contacting CHEMTREC:

24 Hour Emergency Use Only #'s...

Worldwide phone: 1-(703)-527-3887

Worldwide FAX: 1-(703)-741-6090

Toll-free phone: 1-(800)-424-9300 USA only

Product or Trade Name..... SPI Supplies® LVOC Silver Paint

CAS #'s..... 7440-22-4; 67-64-1; 98-56-6; 1330-20-7 (<1%); 100-41-4 (<1%);

..... Proprietary ingredients

Chemical Formula..... Mixture

EMERGENCY OVERVIEW

OSHA Hazards: Flammable Liquid; Target Organ Effect; Irritant

Target Organs: Liver, Kidney, Central Nervous System, Respiratory System, Skin, Eyes

GHS Classification

Flammable liquids (Category 2)

Skin irritation (Category 2)

Eye irritation (Category 2A)

Specific organ toxicity – single exposure (Category 3)

Pictogram



Signal word: Danger

Hazard Statements:

H225 Highly flammable liquid and vapor

H315 Causes skin irritation
H319 Causes serious eye irritation
H335 May cause respiratory irritation
H336 May cause drowsiness or dizziness

Precautionary Statements:

P210 Keep away from heat/ sparks/ open flames/ hot surfaces – No smoking.
P233 Keep container tightly closed
P240 Ground/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.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P264 Wash skin thoroughly after handling.
P 280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P 305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
P362 Take off contaminated clothing and wash before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam\
for extinction.
P403 + P235 Store in a well-ventilated place. Keep cool.

Hazardous Material Information System USA

Health..... 2
Fire Hazard..... 3
Reactivity..... 0
Personal Protection.....

NFPA Rating (estimated)

Health..... 2
Flammability..... 3
Reactivity..... 0

Section 2: Composition

<u>Component</u>	<u>CAS#</u>	<u>Percentage</u>	<u>EU Number</u>
Silver	7440-22-4	30-60	231-131-3
Acetone	67-64-1	10-30	200-662-2
4-Chlorobenzotrifluoride	98-56-6	10-30	202-681-1
Proprietary Acrylic Resin		3-7 Access # 266	
Proprietary Non-OSHA hazard/ Non-WHMIS Controlled		1-5 Access # 993	
Xylene	1330-20-7	0.1-1	215-535-7
Ethyl benzene	100-41-4	0.1-1	212-849-2

Section 3: Hazard Identification

Emergency overview: This product generates vapors that may be harmful if inhaled. This product contains ethyl benzene, which has been classified by IARC as a class 2B carcinogen, and can possibly damage a developing fetus.

Appearance: Silver in solvent.

Flash Point: -16° C (CC)

Warning!

Target Organs: Eyes, mucous membranes, upper respiratory tract.

Potential Health Effects

Eye: May cause moderate irritation of the eyes.

Skin: May cause moderate skin irritation.

Ingestion: Harmful if swallowed.

Inhalation: This product produces mists and vapors that may irritate eyes, nose, and throat. Vapors and mists from this product are harmful if inhaled.

Chronic: This product contains ethyl benzene, which has been classified by IARC as a class 2B carcinogen. Limited evidence indicates that ethyl benzene may damage a developing fetus. This product also contains silver metal, exposure to which may cause argyria, a blue-gray discoloration of the eyes, skin, mucous membranes, and upper respiratory system.

Section 4: First Aid Measures

Eyes: In case of eye contact, immediately flush eyes with copious amounts of running water for at least 30 minutes while holding eyes open with fingertips. Consult a poison center, emergency room, or eye specialist for additional information and guidance.

Skin: In the case of contact, wash affected area with soap and water. Remove all contaminated clothing to be laundered before reuse. Seek medical attention if irritation persists.

Ingestion: Do not induce vomiting. Seek medical attention.

Inhalation: Remove victim to fresh air. If breathing is difficult or labored, provide oxygen or artificial respiration as needed. Consult a poison center, emergency room, or lung specialist for additional information and guidance.

Notes to Physician: Treat supportively and symptomatically.

Section 5: Fire Fighting Measures

General Information: This product is highly flammable, easily ignited by

heat, sparks, or flames. Vapors produced may form explosive mixtures with air. Vapors can travel back to source of ignition and flash back. Most liquids are lighter than air. Most vapors are heavier than air, and will spread along the ground, collecting in low or confined areas (sewers, basements, tanks, etc). Runoff to sewers or other waterways may create fire or explosion hazards. Container may explode if heated. Wear full protective clothing with a self-contained breathing apparatus set to positive pressure in fire conditions. This product may be transported hot.

Auto Ignition Temperature: Not available

Flash Point: -16° C

Flammability: Highly flammable.

Hazardous Combustion Products: Hydrogen fluoride (HF).
Oxides of silver (AgO_x).
Oxides of carbon (CO_x).

Unusual Fire/Explosion Hazards: Containers may explode if heated.

Extinguishing Media

Small Fires: Dry chemical, CO₂, water spray, regular foam. This product has a very low flash point; water spray may not be efficient when fighting fires.

Large Fires: Water spray, fog or regular foam. Use water spray or fog; do not use straight streams. If possible, remove containers from fire area.

Protective Measures: NIOSH/MSHA approved self contained breathing apparatus when fighting fires, along with full protective clothing. Do not breathe vapors. For massive fires, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and allow fire to burn.

Section 6: Accidental Release Measures

General Information: Eliminate ALL ignition sources. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. If possible, attempt to stop leak. Vapor suppressing foams may be used to reduce vapors.

Spills/Leaks: Prevent entry into waterways, sewers, basements, and other confined areas. Absorb spill with dry earth, sand, or any other non-combustible material. Transfer all contaminated materials to an appropriate waste disposal container. Use clean non-sparking tools to collect absorbed material. For large spills, dike far ahead of liquid for later disposal. Water spray may reduce vapors, but may not prevent ignition in confined places.

Section 7: Handling and Storage

Handling: Always wear appropriate safety equipment when handling this product, including (but not limited to) chemical splash goggles (or safety glasses with side shields), chemical resistant gloves, and a NIOSH/MSHA approved respirator.

Storage: Container should be kept closed when not in use. Store containers at ambient temperature at atmospheric pressure in a well ventilated place away from incompatible materials. Empty containers may still retain hazardous properties. All warning/safety labels should still be followed even after the container is empty.

Section 8: Exposure Controls and Personal Protection

CAS #	ACGIH	OSHA
7440-22-4	0.10 mg/m ³	0.01 mg/m ³
67-64-1	750.0 ppm	1000 ppm
98-56-6	N/A	20 ppm
Access #266	N/A	N/A
Access #993	N/A	N/A
1330-20-7	100 ppm/twa	100 ppm/twa
100-41-4	100 ppm	100 ppm

Personal Protective Equipment

Eyes: Vapor tight chemical splash goggles when eye contact due to splashing, spraying of liquid, or the generation of airborne particles/vapors is a possibility.

Skin: Protective clothing, including an impermeable apron or disposable suit and chemical resistant gloves. Protective equipment should be appropriate to prevent contact with the components listed in Section 2 of this MSDS.

Respirators: NIOSH/MSHA Schedule TC-23C-air purifying or a Schedule TC-19-C-air supplied respirator may be used to help reduce exposure to vapors and mist.

N/A = Not available

Section 9: Physical and Chemical Properties

Physical State: Solid particles in liquid.

Appearance: Silver in solvent.

Odor: N/A

pH: N/A

Vapor Pressure: 184.0 mm Hg @ 20° C.

Vapor Density: >1 (air = 1).

Evaporation Rate: <b="" acetate=""Viscosity (CPS): <25 seconds.

Boiling Point: 56° C.

Freezing/Melting Point: N/A

Autoignition Temperature: N/A

Flash Point: -16° C

Decomposition Temperature: N/A

Explosion Limits

Lower: 0.9

Upper: 13.0

Solubility in water: Partial.

Specific Gravity/Density: 1.62

VOC: 60 g/L

Reduced VOC: 60 g/L

Molecular Formula: Mixture.

Molecular Weight: N/A

N/A = Not available

Section 10: Stability and Reactivity

Chemical Stability: Stable.

Conditions to Avoid: Excessive heat, sources of ignition.

Incompatibility with Other Materials: Strong oxidizers.

Hazardous Decomposition of Products: Hydrogen fluoride (HF).

Oxides of silver (AgO_x).

Oxides of carbon (CO_x).

Hazardous Polymerization: Will not occur.

Section 11: Toxicological Information

Reproductive Effects: N/A

Embryotoxicity: N/A

Mutagenicity: N/A

Carcinogenic Effects: This product contains ethyl benzene which has been classified by IARC as a class 2B carcinogen.

N/A = Not available

Section 12: Ecological Information

No ecological information is available at this time.

Section 13: Disposal Considerations

Waste Disposal: This product and all of its containers should be disposed of in accordance with all local, state, and federal environmental regulations.

Section 14: Transport Information

US DOT Hazard Class

Proper Shipping Name: Paint
Hazard Class: 3
Packing Group: II
Identification Number: UN1263

Section 15: Regulatory Information

United States

TSCA: All components of this product are listed or excluded from the TSCA inventory.

SARA

Section 313: The following components are listed in SARA Title 3 Section 313 as being at or above de minimis concentrations:

CAS #	Percent
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100-41-4	<1
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7440-22-4	<50
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California Prop. 65: The following components of this product are known to the State of California to cause cancer, birth defects, or other reproductive harm: CAS # 108-88-3 (toluene).

Canada

DSL Status: The following components of this product are listed on the DSL:

- CAS # 67-64-1
- CAS # 98-56-6
- CAS # 100-41-4
- CAS # 7440-22-4

Section 16: Other Information

Disclaimer 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 or fluids.

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