SAFETY DATA SHEET
Silver Conductive Paint

1. Identification

Product identifier

Product name
Silver Conductive Paint

Product number
SCP, ESCP03B, ESCP26G, ESCP50G, ESCP01K, ZE

Recommended use of the chemical and restrictions on use

Application
Paint.

Uses advised against
No specific uses advised against are identified.

Details of the supplier of the safety data sheet

Supplier
ELECTROLUBE. A division of HK WENTWORTH LTD
HK WENTWORTH-AMERICA
PO Box 126257
Benbrook, Texas 76126
USA
info@hkw.us.com
+1 888-501-9203

Emergency telephone number

Emergency telephone
+1 202 464 2554 (USA only)
+44 1235 239670

2. Hazard(s) identification

Classification of the substance or mixture

Physical hazards
Flam. Liq. 2 - H225

Health hazards
STOT SE 3 - H336

Environmental hazards
Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

Label elements

Pictogram

Signal word
Danger

Hazard statements
H225 Highly flammable liquid and vapor.
H336 May cause drowsiness or dizziness.
H410 Very toxic to aquatic life with long lasting effects.
Silver Conductive Paint

Precautionary statements

P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.
P240 Ground/ bond container and receiving equipment.
P241 Use explosion-proof electrical equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing vapor/ spray.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.
P312 Call a poison center/ doctor if you feel unwell.
P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.
P403+P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/ container in accordance with national regulations.
P233 Keep container tightly closed.

Contains

1-Ethoxypropan-2-ol, Acetone, Ethyl acetate

Other hazards

This product does not contain any substances classified as PBT or vPvB.

3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Mixtures</th>
<th>30-60%</th>
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<tbody>
<tr>
<td>Silver</td>
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<tr>
<td>CAS number: 7440-22-4</td>
<td></td>
</tr>
<tr>
<td>M factor (Acute) = 10</td>
<td>M factor (Chronic) = 10</td>
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<tr>
<td>Classification</td>
<td></td>
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<tr>
<td>Aquatic Acute 1 - H400</td>
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<tr>
<td>Aquatic Chronic 1 - H410</td>
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<tr>
<td>1-Ethoxypropan-2-ol</td>
<td>10-30%</td>
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<tr>
<td>STOT SE 3 - H336</td>
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</tr>
<tr>
<td>Ethanol</td>
<td>10-30%</td>
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<tr>
<td>CAS number: 64-17-5</td>
<td></td>
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<td>Classification</td>
<td></td>
</tr>
<tr>
<td>Flam. Liq. 2 - H225</td>
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</table>
Silver Conductive Paint

<table>
<thead>
<tr>
<th>Acetone</th>
<th>5-10%</th>
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<tr>
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</table>

**Classification**
- Flam. Liq. 2 - H225
- Eye Irrit. 2A - H319
- STOT SE 3 - H336

<table>
<thead>
<tr>
<th>Ethyl acetate</th>
<th>1-5%</th>
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<tr>
<td>CAS number: 141-78-6</td>
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</tr>
</tbody>
</table>

**Classification**
- Flam. Liq. 2 - H225
- Eye Irrit. 2A - H319
- STOT SE 3 - H336

The full text for all hazard statements is displayed in Section 16.

### 4. First-aid measures

#### Description of first aid measures

**General information**
Get medical attention immediately. Show this Safety Data Sheet to the medical personnel.

**Inhalation**
Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Place unconscious person on their side in the recovery position and ensure breathing can take place.

**Ingestion**
Rinse mouth thoroughly with water. Remove any dentures. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Place unconscious person on their side in the recovery position and ensure breathing can take place. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.

**Skin Contact**
Rinse with water.

**Eye contact**
Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes.

**Protection of first aiders**
First aid personnel should wear appropriate protective equipment during any rescue. If it is suspected that volatile contaminants are still present around the affected person, first aid personnel should wear an appropriate respirator or self-contained breathing apparatus. Wash contaminated clothing thoroughly with water before removing it from the affected person, or wear gloves. It may be dangerous for first aid personnel to carry out mouth-to-mouth resuscitation.

**Most important symptoms and effects, both acute and delayed**

**General information**
See Section 11 for additional information on health hazards. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Silver Conductive Paint

**Inhalation**
A single exposure may cause the following adverse effects: Headache. Nausea, vomiting. Central nervous system depression. Drowsiness, dizziness, disorientation, vertigo. Narcotic effect.

**Ingestion**
Gastrointestinal symptoms, including upset stomach. Fumes from the stomach contents may be inhaled, resulting in the same symptoms as inhalation.

**Skin contact**
Prolonged contact may cause dryness of the skin.

**Eye contact**
May cause temporary eye irritation.

**Indication of immediate medical attention and special treatment needed**

**Notes for the doctor**
Treat symptomatically.

### 5. Fire-fighting measures

**Extinguishing media**

**Suitable extinguishing media**
The product is flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

**Unsuitable extinguishing media**
Do not use water jet as an extinguisher, as this will spread the fire.

**Special hazards arising from the substance or mixture**

**Specific hazards**
Containers can burst violently or explode when heated, due to excessive pressure build-up. Flammable liquid and vapour. Vapors may be ignited by a spark, a hot surface or an ember. Vapors may form explosive mixtures with air. Fire-water run-off in sewers may create fire or explosion hazard.

**Hazardous combustion products**
Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors.

**Advice for firefighters**

**Protective actions during firefighting**
Avoid breathing fire gases or vapors. Evacuate area. Keep upwind to avoid inhalation of gases, vapors, fumes and smoke. Ventilate closed spaces before entering them. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapors and protect men stopping the leak. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

**Special protective equipment for firefighters**
Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Standard Firefighter's clothing including helmets, protective boots and gloves will provide a basic level of protection for chemical incidents.

### 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions**
No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Wash thoroughly after dealing with a spillage. Ensure procedures and training for emergency decontamination and disposal are in place. Do not touch or walk into spilled material. Evacuate area. Provide adequate ventilation. No smoking, sparks, flames or other sources of ignition near spillage. Promptly remove any clothing that becomes contaminated. Avoid inhalation of vapors and spray/mists. Use suitable respiratory protection if ventilation is inadequate.

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Silver Conductive Paint

Environmental precautions
Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment. Large Spillages: Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).

Methods and material for containment and cleaning up
Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Eliminate all ignition sources if safe to do so. No smoking, sparks, flames or other sources of ignition near spillage. Do not allow material to enter confined spaces, due to the risk of explosion. Approach the spillage from upwind. Small Spillages: If the product is soluble in water, dilute the spillage with water and mop it up. Alternatively, or if it is not water-soluble, absorb the spillage with an inert, dry material and place it in a suitable waste disposal container. Large Spillages: If leakage cannot be stopped, evacuate area. Flush spilled material into an effluent treatment plant, or proceed as follows. Contain and absorb spillage with sand, earth or other non-combustible material. Place waste in labeled, sealed containers. Clean contaminated objects and areas thoroughly, observing environmental regulations. The contaminated absorbent may pose the same hazard as the spilled material. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dangerous for the environment. Do not empty into drains. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Reference to other sections
For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

7. Handling and storage

Precautions for safe handling
Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimize spills. Keep container tightly sealed when not in use. Avoid the formation of mists. The product is flammable. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. In use may form flammable/explosive vapour-air mixture. Vapors may accumulate on the floor and in low-lying areas. Use explosion-proof electrical, ventilating and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharges. Avoid discharge to the aquatic environment. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.

Advice on general occupational hygiene
Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily before leaving workplace.

Conditions for safe storage, including any incompatibilities
Store away from incompatible materials (see Section 10). Store in accordance with local regulations. Eliminate all sources of ignition. Take precautionary measures against static discharges. Ground container and transfer equipment to eliminate sparks from static electricity. Keep away from oxidizing materials, heat and flames. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage. Utilize retaining walls to prevent soil and water pollution in the event of spillage. The storage area floor should be leak-tight, jointless and not absorbent.
Silver Conductive Paint

Storage class
Flammable liquid storage.

Specific end uses(s)
The identified uses for this product are detailed in Section 1.

8. Exposure Controls/personal protection

Control parameters

Occupational exposure limits

Silver
Long-term exposure limit (8-hour TWA): OSHA 0.01 mg/m³ as Ag
Long-term exposure limit (8-hour TWA): ACGIH 0.1 mg/m³ dust and fume

Ethanol
Short-term exposure limit (15-minute): ACGIH 1000 ppm 1880 mg/m³ A3
Long-term exposure limit (8-hour TWA): OSHA 1000 ppm 1900 mg/m³

Acetone
Long-term exposure limit (8-hour TWA): ACGIH 250 ppm 594 mg/m³
Short-term exposure limit (15-minute): ACGIH 500 ppm 1187 mg/m³ A4
Long-term exposure limit (8-hour TWA): OSHA 1000 ppm 2400 mg/m³

Ethyl acetate
Long-term exposure limit (8-hour TWA): OSHA 400 ppm 1400 mg/m³
Long-term exposure limit (8-hour TWA): ACGIH 400 ppm 1440 mg/m³
OSHA = Occupational Safety and Health Administration.
ACGIH = American Conference of Governmental Industrial Hygienists.
A3 = Confirmed Animal Carcinogen with Unknown Relevance to Humans.
A4 = Not Classifiable as a Human Carcinogen.

Silver (CAS: 7440-22-4)
Immediate danger to life and health 10 mg/m³

Ethanol (CAS: 64-17-5)
Immediate danger to life and health 3300 ppm

Acetone (CAS: 67-64-1)
Immediate danger to life and health 2500 ppm

Ethyl acetate (CAS: 141-78-6)
Immediate danger to life and health 2000 ppm

Exposure controls
Silver Conductive Paint

Protective equipment

Provide adequate ventilation. Personal, workplace environment or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Use process enclosures, local exhaust ventilation or other engineering controls as the primary means to minimize worker exposure. Personal protective equipment should only be used if worker exposure cannot be controlled adequately by the engineering control measures. Ensure control measures are regularly inspected and maintained. Ensure operatives are trained to minimize exposure. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilating equipment.

Appropriate engineering controls

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with OSHA 1910.133. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with OSHA 1910.138 and be demonstrated to be impervious to the chemical and resist degradation. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.

Other skin and body protection

Hygiene measures

Provide eyewash station and safety shower. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke. Preventive industrial medical examinations should be carried out. Warn cleaning personnel of any hazardous properties of the product.

Respiratory protection

Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use and is NIOSH approved. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with OSHA 1910.134. Full face mask respirators with replaceable filter cartridges should comply with OSHA 1910.134. Half mask and quarter mask respirators with replaceable filter cartridges should comply with OSHA 1910.134.

Environmental exposure controls

Environmental exposure controls

Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance

Liquid.

Color

Silver.
Silver Conductive Paint

Odor: Solvent.

pH: Not available.

Melting point: Not available.

Initial boiling point and range: Not available.

Flash point: 12°C/53.6°F

Evaporation rate: Not available.

Flammability (solid, gas): Not available.

Upper/lower flammability or explosive limits: Not available.

Vapor pressure: > 1.1 - 1.75 hPa @ 50°C/122°F

Vapor density: Not available.

Relative density: 1.44 @ 20°C/68°F

Solubility(ies): Not available.

Partition coefficient: Not available.

Auto-ignition temperature: Not available.

Decomposition Temperature: Not available.

Viscosity: 70 mPa s @ 25°C/77°F

Explosive properties: Not considered to be explosive.

Oxidizing properties: Does not meet the criteria for classification as oxidizing.

10. Stability and reactivity

Reactivity: See the other subsections of this section for further details.

Stability: Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.

Possibility of hazardous reactions: The following materials may react strongly with the product: Oxidizing agents.

Conditions to avoid: Avoid heat, flames and other sources of ignition. Containers can burst violently or explode when heated, due to excessive pressure build-up. Static electricity and formation of sparks must be prevented. Do not pressurize, cut, weld, drill, grind or otherwise expose containers to heat or sources of ignition.

Materials to avoid: Oxidizing materials. Acids - oxidizing.

Hazardous decomposition products: Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors.

11. Toxicological information

Information on toxicological effects

Acute toxicity - oral

Notes (oral LD₅₀): Based on available data the classification criteria are not met.
# Silver Conductive Paint

## Acute toxicity - dermal
Notes (dermal LD₅₀): Based on available data the classification criteria are not met.

## Acute toxicity - inhalation
Notes (inhalation LC₅₀): Based on available data the classification criteria are not met.

## Skin corrosion/irritation
Animal data: Based on available data the classification criteria are not met.

## Serious eye damage/irritation
Serious eye damage/irritation: Based on available data the classification criteria are not met.

## Respiratory sensitization
Respiratory sensitization: Based on available data the classification criteria are not met.

## Skin sensitization
Skin sensitization: Based on available data the classification criteria are not met.

## Germ cell mutagenicity
Genotoxicity - in vitro: Based on available data the classification criteria are not met.

## Carcinogenicity
Carcinogenicity: Based on available data the classification criteria are not met.

## IARC carcinogenicity
IARC carcinogenicity: Contains a substance/a group of substances which may cause cancer. IARC Group 1 Carcinogenic to humans.

## Reproductive toxicity
Reproductive toxicity - fertility: Based on available data the classification criteria are not met.

## Reproductive toxicity - development
Reproductive toxicity - development: Based on available data the classification criteria are not met.

## Specific target organ toxicity - single exposure
STOT - single exposure: STOT SE 3 - H336 May cause drowsiness or dizziness.

## Target organs
Central nervous system

## Specific target organ toxicity - repeated exposure
STOT - repeated exposure: Not classified as a specific target organ toxicant after repeated exposure.

## Aspiration hazard
Aspiration hazard: Based on available data the classification criteria are not met.

## General information
The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

## Inhalation
A single exposure may cause the following adverse effects: Headache. Nausea, vomiting. Central nervous system depression. Drowsiness, dizziness, disorientation, vertigo. Narcotic effect.

## Ingestion
Gastrointestinal symptoms, including upset stomach. Fumes from the stomach contents may be inhaled, resulting in the same symptoms as inhalation.

## Skin Contact
Prolonged contact may cause dryness of the skin.

## Eye contact
May cause temporary eye irritation.

## Route of entry
Ingestion Inhalation Skin and/or eye contact
Silver Conductive Paint

Target Organs

Central nervous system

Ethanol

Toxicological effects

Not regarded as a health hazard under current legislation.

Acute toxicity - oral

Notes (oral LD₅₀)

LD₅₀ 10470 mg/kg, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC₅₀)

LD₅₀ 124.7 mg/l, Inhalation, Rat REACH dossier information. Based on available data the classification criteria are not met.

Skin corrosion/irritation

Animal data

Dose: 0.2 mL, 24 hours, Rabbit Primary dermal irritation index: 0 REACH dossier information. Based on available data the classification criteria are not met.

Skin sensitization

Skin sensitization

Local Lymph Node Assay (LLNA) - Mouse: Not sensitizing. REACH dossier information. Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro

Gene mutation: Negative. REACH dossier information. Based on available data the classification criteria are not met.

Genotoxicity - in vivo

Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.

Carcinogenicity

IARC carcinogenicity

IARC Group 1 Carcinogenic to humans.

Reproductive toxicity

Reproductive toxicity - fertility

Two-generation study - NOAEL 15%, Oral, Mouse REACH dossier information. Based on available data the classification criteria are not met.

Reproductive toxicity - development

Maternal toxicity: - NOAEL: 16000 ppm, Inhalation, Rat REACH dossier information. Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure

LOAEL ~4000 mg/kg, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

Acetone

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg)

5,800.0

Species

Rat

ATE oral (mg/kg)

5,800.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l)

76.0
Silver Conductive Paint

Species
Rat

ATE inhalation (vapours mg/l)
76.0

12. Ecological Information

Toxicity
Aquatic Acute 1 - H400 Very toxic to aquatic life. Aquatic Chronic 1 - H410 Very toxic to aquatic life with long lasting effects.

Silver

Acute aquatic toxicity
LE(C)₅₀ 0.01 < L(E)C50 ≤ 0.1
M factor (Acute) 10

Chronic aquatic toxicity
M factor (Chronic) 10

Ethanol

Toxicity Based on available data the classification criteria are not met.

Acute toxicity - fish LC₅₀, 96 hours: 14200 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic invertebrates LC₅₀, 48 hours: 5012 mg/l, Ceriodaphnia dubia

Acute toxicity - aquatic plants EC₅₀, 72 hours: 11.5 mg/l, Chlorella vulgaris

Chronic toxicity - aquatic invertebrates NOEC, 9 days: 9.6 mg/l, Daphnia magna

Ethyl acetate

Acute toxicity - fish LC₅₀, 48 hours: 270 mg/l, Fish

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 164 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 96 hours: 2000 mg/l, Algae

Persistence and degradability
The degradability of the product is not known.

Ethanol

Persistence and degradability The substance is readily biodegradable.

Biodegradation Water - Degradation 74%: 10 days

Chemical oxygen demand 1.99 g O₂/g substance
Silver Conductive Paint

Persistence and degradability
The product is readily biodegradable.

Bioaccumulative potential
Bio-Accumulative Potential No data available on bioaccumulation.
Partition coefficient Not available.

Ethanol
Bio-Accumulative Potential Bioaccumulation is unlikely.
Partition coefficient log Pow: -0.35

Ethyl acetate
Bio-Accumulative Potential The product is not bioaccumulating.

Mobility in soil
Mobility No data available.

Ethanol
Mobility The product is soluble in water.
Surface tension 24.5 mN/m @ 20°C/68°F

Other adverse effects
Other adverse effects None known.

13. Disposal considerations

Waste treatment methods
General information
The generation of waste should be minimized or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

Disposal methods
Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labeled with their contents. Incineration or landfill should only be considered when recycling is not feasible. Vapor from residual product may create a highly flammable or explosive atmosphere inside the container. Containers should be thoroughly emptied before disposal because of the risk of an explosion. Do not cut or weld used containers unless they have been thoroughly cleaned internally.

14. Transport information

General
For limited quantity packaging/limited load information, consult the relevant modal documentation using the data shown in this section.

UN Number
Silver Conductive Paint

UN No. (TDG) 1263
UN No. (IMDG) 1263
UN No. (ICAO) 1263
UN No. (DOT) ID8000

UN proper shipping name
Proper shipping name (TDG) PAINT
Proper shipping name (IMDG) PAINT (CONTAINS Silver)
Proper shipping name (ICAO) PAINT
Proper shipping name (DOT) CONSUMER COMMODITY

Transport hazard class(es)
DOT hazard class 9
DOT hazard label 9
TDG class 3
TDG label(s) 3
IMDG Class 3
ICAO class/division 3

Transport labels

DOT transport labels

Packing group
TDG Packing Group II
IMDG packing group II
ICAO packing group II

Environmental hazards
Environmentally Hazardous Substance

Special precautions for user
Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

EmS F-E, S-E
Silver Conductive Paint

Transport in bulk according to Not applicable.
Annex II of MARPOL 73/78
and the IBC Code

15. Regulatory information

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities
None of the ingredients are listed or exempt.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)
The following ingredients are listed or exempt:

Ethyl acetate
Final CERCLA RQ: 5000(2270) pounds (Kilograms)

Acetone
Final CERCLA RQ: 5000(2270) pounds (Kilograms)

Silver
Final CERCLA RQ: 1000(454) pounds (Kilograms)

SARA Extremely Hazardous Substances EPCRA Reportable Quantities
None of the ingredients are listed or exempt.

SARA 313 Emission Reporting
The following ingredients are listed or exempt:

Silver
1.0 %

CAA Accidental Release Prevention
None of the ingredients are listed or exempt.

FDA - Essential Chemical
None of the ingredients are listed or exempt.

FDA - Precursor Chemical
None of the ingredients are listed or exempt.

SARA (311/312) Hazard Categories
None of the ingredients are listed or exempt.

OSHA Highly Hazardous Chemicals
None of the ingredients are listed or exempt.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins
None of the ingredients are listed or exempt.

California Air Toxics "Hot Spots" (A-I)
The following ingredients are listed or exempt:

Silver

California Air Toxics "Hot Spots" (A-II)
None of the ingredients are listed or exempt.
Silver Conductive Paint

California Directors List of Hazardous Substances
The following ingredients are listed or exempt:

Ethyl acetate
Acetone
Ethanol
Silver

Massachusetts "Right To Know" List
The following ingredients are listed or exempt:

Ethyl acetate
Acetone
Ethanol
Silver

Rhode Island "Right To Know" List
The following ingredients are listed or exempt:

Ethyl acetate
Acetone
Ethanol
Silver

Minnesota "Right To Know" List
The following ingredients are listed or exempt:

Ethyl acetate
Acetone
Ethanol
Silver

New Jersey "Right To Know" List
The following ingredients are listed or exempt:

Ethyl acetate
Acetone
Ethanol
Silver

Pennsylvania "Right To Know" List
The following ingredients are listed or exempt:

Ethyl acetate
Acetone
Ethanol
Silver

Inventories

US - TSCA
The following ingredients are listed or exempt:

Ethyl acetate
Silver Conductive Paint

Acetone
Ethanol
1-Ethoxypropan-2-ol
Silver

US - TSCA 12(b) Export Notification
None of the ingredients are listed or exempt.

### 6. Other Information

<table>
<thead>
<tr>
<th>Classification abbreviations and acronyms</th>
<th>Flamm. Liq. = Flammable liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>STOT SE = Specific target organ toxicity-single exposure</td>
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<td></td>
<td>Aquatic Acute = Hazardous to the aquatic environment (acute)</td>
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<td>Aquatic Chronic = Hazardous to the aquatic environment (chronic)</td>
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<tr>
<th>Training advice</th>
<th>Read and follow manufacturer's recommendations. Only trained personnel should use this material.</th>
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<tr>
<th>Issued by</th>
<th>Bethan Massey</th>
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<tbody>
<tr>
<td>Revision date</td>
<td>2/7/2017</td>
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<tr>
<td>Revision</td>
<td>0</td>
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<tr>
<td>SDS No.</td>
<td>952</td>
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</table>

| Hazard statements in full | H225 Highly flammable liquid and vapor. |
|                          | H226 Flammable liquid and vapor.       |
|                          | H319 Causes serious eye irritation.    |
|                          | H336 May cause drowsiness or dizziness.|
|                          | H400 Very toxic to aquatic life.       |
|                          | H410 Very toxic to aquatic life with long lasting effects. |

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.