


## Silver Nanowires Dispersed in Isopropanol

Item #: 903206

<b>Product:</b>	Silver Nanowires Dispersed in Isopropanol AgNW-IPA-L AgNW-IPA-M AgNW-IPA-H
<b>Distributor/ supplier/ manufacturer:</b>	Nanotech Energy, Inc. 12100 Wilshire BLVD suite 800 Los Angeles, CA 90025
<b>Phone number:</b>	1 (800) 995-5491

### Hazards Identification

<b>Hazard Identification:</b>	<ul style="list-style-type: none"> <li>-Flammable Liquids</li> <li>-Eye irritation</li> <li>-Specific Target Organ Toxicity - Single Exposure, Central nervous system</li> <li>-Short-term (acute) aquatic hazard</li> <li>-Long-term (chronic) aquatic hazard</li> </ul>	
<b>Hazard Statement(s)</b>	<ul style="list-style-type: none"> <li>-Highly flammable liquid and vapor</li> <li>- May cause drowsiness or dizziness</li> <li>-Induces serious eye irritation.</li> <li>-Toxic to aquatic life with long lasting effects</li> </ul>	
<b>Precautionary Statement(s)</b>	<ul style="list-style-type: none"> <li>-Keep away from heat, sparks, open flames and hot surfaces.</li> <li>-Keep container tightly closed</li> <li>-Use in a well-ventilated area</li> <li>-Use explosion-proof electrical/ventilating/lighting/equipment</li> <li>-Use only non-sparking tools</li> <li>-Wash skin meticulously after handling</li> <li>-Avoid breathing dust/fume/gas/mist/vapors/spray.</li> <li>-Avoid release to the environment</li> <li>-Wear personal protective equipment</li> <li>-Skin Exposure: Wash thoroughly soap and water</li> <li>-Eye Exposure: Rinse carefully with water for 15 minutes. Remove contact lenses if present.</li> <li>-In case of skin irritation: Get medical advice.</li> <li>-In case of persistent eye irritation: Get medical advice.</li> <li>-Remove contaminated clothing and wash.</li> <li>-In case of fire: Use dry sand, dry chemical or alcohol-resistant foam.</li> <li>-Store in a cool and well-ventilated area.</li> <li>-Dispose of contents/container at an approved waste disposal plant.</li> </ul>	

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### Composition / Information on Ingredients

Component	Classification	Concentration
2-Propanol	Flam. Liq 2; Eye Irrit. 2A	97-100 %
Silver	Aquatic Acute 1; Aquatic Chronic 1	0.5-3.0 %

### First Aid Measures

<b>First Aid:</b>	<p><b>General advice</b> Consult a physician.</p> <p><b>If ingested</b> Do NOT induce vomiting. Rinse mouth with water. Do NOT administer anything orally to an unconscious person. Consult a physician.</p> <p><b>In case of eye exposure</b> Rinse eyes thoroughly with copious amounts of water for at least 15 minutes. Consult a physician.</p> <p><b>In case of skin exposure</b> Wash meticulously with soap and water. Consult a physician.</p> <p><b>If inhaled</b> Move person to a well-ventilated location. Consult a physician.</p>
<b>Effects of Exposure:</b>	<p><b>Ingestion</b> May cause nausea, vomiting and/or diarrhea.</p> <p><b>Eyes</b> Moderately irritating to the eyes: redness, itching, irritation and watering.</p> <p><b>Skin</b> May be irritating to skin. May cause allergic skin reactions in sensitive individuals.</p> <p><b>Inhalation</b> None expected.</p>

### Firefighting Measures

<b>Extinguishing Media</b>	<p><b>Means of extinction</b> Use dry powder or dry sand.</p> <p><b>Special hazards arising from the substance or mixture</b> Not determined</p> <p><b>Advice for firefighters</b> Wear self-contained breathing apparatus for firefighting if necessary</p>
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### Accidental Release Measure

1	<p><b>Personal precautions, protective equipment, and emergency procedures</b> Use personal protective equipment such as protective gloves, protective clothing and eye protection. Avoid vapor, mist or gas inhalation. Ensure sufficient ventilation. Remove any source of ignition.</p>
2	<p><b>Environmental precautions</b> Prevent further leakage if area is secure. Do not allow product to enter drains.</p>
3	<p><b>Methods and materials for containment and cleaning up</b> Contain spillage and collect with a towel. Dispose in appropriate container for disposal according to local regulations.</p>

### Handling and Storage

1	<p><b>Precautions for safe handling</b> Avoid skin/eye exposure. Avoid inhalation of vapor/mist. Keep away from sources of ignition - No smoking.</p>
2	<p><b>Conditions for safe storage</b> Keep container upright and tightly closed in a dry and well-ventilated location. Open containers must be resealed and kept upright to prevent leakage. Store in a dark area and protect from sources of light. Recommended Temperature: 2-8 °C Hygroscopic air and light sensitive. Storage class: Flammable liquids</p>

### Exposure Controls/ Personal Protection

<b>Ventilation:</b>	Always provide adequate ventilation where this chemical/material is used.
<b>Protective Gloves:</b>	Neoprene, butyl, or nitrile rubber gloves
<b>Eye Protection:</b>	Safety glasses or goggles.
<b>Skin Protection:</b>	Suitable protective clothing.
<b>Work/Hygiene Practices:</b>	Avoid inhaling vapor. Avoid eye exposure. Wash hands after use.

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### Physical and Chemical Properties

Appearance	Form: liquid
Odor	Not determined
Odor Threshold	Not determined
pH	Not determined
Melting point/ freezing point	Not determined
Initial boiling point and boiling range	Not determined
Flash Point	Not determined
Evaporation rate	Not determined
Flammability (solid, gas)	Not determined
Upper/lower flammability or explosive limits	Not determined
Vapor pressure	Not determined
Vapor density	Not determined
Relative density	Not determined
Partition Coefficient	Not determined
Auto-ignition temperature	Not determined
Decomposition temperature	Not determined
Viscosity	Not determined
Explosive properties	Not determined
Oxidizing properties	Not determined

### Stability and Reactivity

Reactivity	Not determined
Chemical stability	Stable under recommended storage conditions
Conditions to avoid	Heat, flames and sparks
Incompatibility:	Utilize chemical segregation.

### Disposal Considerations

Waste from residues/unused products:	Follow waste disposal requirements for your country, state, or local authorities.
Contaminated packaging:	Follow procedure for residues and unused product above.
Contaminated water:	Do not dispose of rinse water containing product in a sanitary sewer system or stormwater drainage system.

Revision Date: 11.16.2020