


Silver Nanowires Dispersed in Ethanol

Item #: 903103

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

Hazards Identification

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

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Composition / Information on Ingredients

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

First Aid Measures

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

Firefighting Measures

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

1	<p>Personal precautions, protective equipment, and emergency procedures 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>Environmental precautions Prevent further leakage if area is secure. Do not allow product to enter drains.</p>
3	<p>Methods and materials for containment and cleaning up Contain spillage and collect with a towel. Dispose in appropriate container for disposal according to local regulations.</p>

Handling and Storage

1	<p>Precautions for safe handling Avoid skin/eye exposure. Avoid inhalation of vapor/mist. Keep away from sources of ignition - No smoking.</p>
2	<p>Conditions for safe storage 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

Ventilation:	Always provide adequate ventilation where this chemical/material is used.
Protective Gloves:	Neoprene, butyl, or nitrile rubber gloves
Eye Protection:	Safety glasses or goggles.
Skin Protection:	Suitable protective clothing.
Work/Hygiene Practices:	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.

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