



# SAFETY DATA SHEET

## SILVER NANOPARTICLES FLOW FROM 1NM TO 100NM

MANUFACTURER/SUPPLIER	DESCRIPTION	
<b>JAVI NANOTECHNOLOGY CORP</b> EIN 84-2905354  8095 NW 90™ Street, Medley, Florida 33166.	Technology of Silver Nanoparticles Flow	<b>CAS# 7440-22-4</b>
	<b>PACKING</b>	
	Glass bottles containing 1000 (thousand) grams	
	<b>FORMULA</b>	<b>PURITY</b>
	Ag	99,9998%
	<b>CHEMICAL PROPERTIES</b>	
	<b>Appearance</b>	Fluid
	<b>Molecular Weight</b>	108.08
	<b>Melting/Boiling Point</b>	960.08°
	<b>Odor</b>	Odorless
	<b>pH</b>	No data available
	<b>Initial Boiling Point and Boiling Range</b>	2210°
<b>Water Solubility</b>	10.491 g/cm <sup>3</sup>	

HAZARD IDENTIFICATION	
<b>DESCRIPTION</b>	Xn Harmful F Highly flammable Information pertaining to particular dangers for man and environment: R 11 Highly flammable R 62 possible risk of impaired fertility R 63 Possible risk of harm to the unborn child
<b>CLASSIFICATION SYSTEM</b>	HMIS ratings (scale 0-4) (Hazardous Materials Identification System)  Health (acute effects) = 1 Flammability = 3 Reactivity = 1





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### FIRST AID MEASURES

<b>AFTER INHALATION</b>	Supply fresh air, if required, provide artificial respiration. Keep patient warm. Seek immediate medical advice
<b>AFTER SKIN CONTACT</b>	Immediately wash with water and soap and rinse thoroughly Seek immediate medical advice
<b>AFTER EYE CONTACT</b>	Rinse opened eye for several minutes under running water then consult doctor
<b>AFTER SWALLOWING</b>	Seek immediate medical advice

### FIRE FIGHTING MEASURES

### ACCIDENTAL RELEASE MEASURES

<p><b>Suitable extinguishing agents:</b></p> <p>Special powder for metal fires Do not use water</p> <p><b>For safety reasons unsuitable extinguishing agents:</b></p> <p>Water Protective equipment Wear self-contained respirator Wear fully protective impervious suit</p>	<p><b>Person related safety precautions:</b></p> <p>Wear protective equipment Keep unprotected persons away Ensure adequate ventilation Keep away from ignition sources</p> <p><b>Measures for environmental protection:</b></p> <p>Do not allow material to be released to the environment without proper governmental permits</p> <p><b>Measures for cleaning/collecting:</b></p> <p>Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents Keep away from ignition sources</p>
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### HANDLING AND STORAGE

<p>Information for safe handling. Keep the container tightly sealed. Store in cool, dry places in tightly closed containers. Ensure good ventilation at the workplace</p> <p><b>Information about protection against explosions and fires:</b> Keep ignition sources away. Protect against electrostatic charges Fumes can combine with air to form an explosive mixture</p> <p><b>Storage</b> Store in a cool location</p>
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PERSONAL PROTECTION	TOXICOLOGICAL INFORMATION
<p><b>GENERAL PROTECTIVE AND HYGIENIC MEASURES</b></p> <p>The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Avoid contact with eyes and skin</p> <p><b>Breathing equipment:</b> Use suitable respirator when high concentrations are present <b>Protection of hands:</b> Impervious gloves <b>Eye protection:</b> Safety glasses <b>Body protection:</b> Protective work clothing</p>	<p><b>ACUTE TOXICITY</b></p> <p>Primary irritant effect</p> <p><b>On the skin:</b> Irritant to skin and mucous membranes <b>On the eye:</b> Irritating effect <b>Sensitization:</b> No sensitizing effects known <b>Subacute to chronic toxicity:</b> Silver compounds may be irritating to the skin, eyes and respiratory tract. They may cause metal fume fever, hemolysis of the red blood cells and injury to the liver, lungs, kidneys and pancreas. Ingestion may also cause vomiting, gastric pain, dizziness, anemia, cramps, convulsions, shock, coma and death. Silver solutions may cause sensitization reactions</p>

STABILITY AND REACTIVITY
<p><b>Conditions to be avoided/thermal decomposition:</b> Decomposition will not occur if used and stored according to specifications. Dangerous reactions. Contact with acids releases flammable gases. Dangerous products of decomposition. Toxic metal oxide fume</p>

TRANSPORT INFORMATION	
<p><b>DOT REGULATIONS</b></p> <p><b>Hazard class:</b> 9 <b>Identification number:</b> UN3077 <b>Packing group:</b> III <b>Proper shipping name:</b> Environmentally Substances, Liquid, N.O.S.</p> <p><b>LAND TRANSPORT ADR/RID (cross-border)</b></p> <p><b>ADR/RID class:</b> 9 Flammable solids <b>Item:</b> 13c <b>Danger code (Kemmler):</b> 40 <b>UN-Number:</b> 3077 <b>Description of goods:</b> Environmentally Substances, Liquid, N.O.S.</p>	<p><b>MARITIME TRANSPORT IMDG</b></p> <p><b>IMDG Class:</b> 9 <b>UN Number:</b> 3077 <b>Packing group:</b> III <b>Proper shipping name:</b> Environmentally Substances, Liquid, N.O.S.</p> <p><b>AIR TRANSPORT ICAO-TI AND IATA-DGR</b></p> <p><b>ICAO/IATA Class:</b> 9 <b>UN/ID Number:</b> 3077 <b>Packing group:</b> III <b>Proper shipping name:</b> Environmentally Substances, Liquid, N.O.S.</p>

