



Materials Safety Data Sheet SILVER PLATING SOLUTION

1. PRODUCT IDENTIFICATION

TRADE NAME (AS LABELED): **JAX SILVER PLATING SOLUTION**
CHEMICAL NAMES, COMMON NAMES: None
SYNONYMS: None
MANUFACTURER'S NAME: JAX Chemical Company
ADDRESS: 640 South Fulton Avenue, Mount Vernon, NY 10550
BUSINESS PHONE: (914) 668-1818 • (914) 668-8490 fax

2. HAZARDOUS INGREDIENTS

CHEMICAL NAME	CAS #	% w/w	EXPOSURE LIMITS IN AIR	
			TLV	PEL
Ammonia	7664-41-7	1.0 - 3.0	25 ppm	50 ppm
Silver Chloride	7783-90-6	1.0 - 3.0	0.01 mg(Ag)/m ³	0.01 mg(Ag)/m ³
Sodium Thiosulfate	7772-98-7	10 - 12	none	none

THE REMAINING 82 to 88% INGREDIENTS ARE NON-HAZARDOUS

3. PHYSICAL PROPERTIES

VAPOR DENSITY: No Data
SPECIFIC GRAVITY: 1.4
SOLUBILITY IN WATER: Soluble
VAPOR PRESSURE, mm Hg @ 20°C: No Data
APPEARANCE & COLOR: Clear Emulsion
EVAPORATION RATE (Water = 1): Similar to Water
MELTING POINT or RANGE: Less than 32° F
BOILING POINT: Greater than 212° F
pH: 10.7
HOW TO DETECT THIS SUBSTANCE (warning properties): At room temperature this product is a clear liquid with an ammonia-like odor. No unusual warning properties.

4. FIRE and EXPLOSION

THIS PRODUCT IS NON-FLAMMABLE AND NON-COMBUSTIBLE

FLASH POINT, F (method): Not Applicable
AUTOIGNITION TEMPERATURE, F: Not Applicable
FLAMMABLE LIMITS in air by volume, %: **Lower:** N/A **Upper:** N/A
FIRE EXTINGUISHING MATERIALS: Water Spray: OK Carbon Dioxide: OK
Foam: OK Dry Chemical: OK
Halon: OK Other:

SPECIAL FIRE FIGHTING PROCEDURES: If involved in fire, use water spray. Fire Fighters must use Self Contained Breathing Apparatus.

UNUSUAL FIRE & EXPLOSION HAZARDS: None.

5. HEALTH HAZARD INFORMATION

SYMPTOMS OF OVER EXPOSURE by route of exposure:

INHALATION: Upper respiratory irritation.

CONTACT WITH SKIN or EYES: Irritation and/or reddening to skin and eyes.
Change in skin pigmentation.

SKIN ABSORPTION: This product does not skin absorb to any appreciable degree.

INGESTION: Irritation to the GI tract, nausea, vomiting.

INJECTION: Local irritation at the site of injection, possible systemic injury depending on dose.

HEALTH EFFECTS OR RISKS FROM EXPOSURE An explanation in lay terms.

ACUTE: This product may cause reddening, irritation, or burns to the eyes or skin. Irritation to the nose or throat may occur if you breath the product vapors.

CHRONIC: Long term exposure to this product may cause severe and/or persistent irritation and/or sensitizing to the eyes and skin. Irritation to the nose or throat. A generalized grayish pigmentation of the skin and mucous membranes (argyria) may occur, developing slowly over a period of 2 to 25 years of regular exposure.

FIRST AID EMERGENCY PROCEDURES:

If spilled on skin or eyes, **immediately** begin decontamination with running water. Remove exposed or contaminated clothing, taking care not to contaminate eyes. Victim & rescuers must seek immediate medical attention. If chemical is in eyes, open victim's eyes while under gentle running water. Use sufficient force to open eye lids. Have victim "roll" eyes. **Minimum** flushing is for 15 minutes. If chemical is inhaled, remove victim to fresh air and use artificial respiration to support vital functions. Remove or cover gross contamination to avoid exposure to rescuers.

If chemical is swallowed, CALL PHYSICIAN OR POISON CONTROL CENTER FOR MOST CURRENT INFORMATION. If professional advice is not available, dilute by drinking several glasses of water. Never give diluents (milk or water) to or induce vomiting in someone who is **unconscious, having convulsions, or cannot swallow.**

Victim of chemical exposure and all rescuers must be taken for medical attention. Take copy of label and MSDS to physician or health professional with victim.

SUSPECTED CANCER AGENT?

This product's ingredients are/are not found on the following lists:

OSHA Z-2 LIST	NTP	IARC
NO	NO	NO

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Any pre-existing skin irritation or dermatitis can be aggravated by exposure to this product. Upper respiratory dysfunction may also be aggravated by inhalation of the vapors of this product.

RECOMMENDATIONS TO PHYSICIANS: Treat symptoms of exposure.

6. REACTIVITY DATA

STABILITY: Stable under normal conditions.

CONDITIONS TO AVOID: None.

MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE: Never mix ammonia containing products with products containing hypochlorite bleach. Toxic chloramines may be generated.

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: N/A

7. SPILL, LEAK, and DISPOSAL INFORMATION

SPILL & LEAK RESPONSE: Uncontrolled releases should be responded to using trained people and pre-planned procedures. Proper protective equipment should be used. In case of a spill, clear the affected area, protect people, and respond with trained personnel. Minimum PPE should be hard hat with face shield, splash goggles, respiratory protection (SCBA, unless conditions warrant lower protection), hand and body protection, and chemical protective boots.

PREPARING WASTES FOR DISPOSAL: Waste disposal must be in accordance with appropriate federal, state, and local regulations. This chemical, if unaltered by the handling, may be disposed of by standard industrial waste water treatment processes.

8. SPECIAL HANDLING INFORMATION

VENTILATION & ENGINEERING CONTROLS: Use ventilation adequate to keep the airborne concentration below the TLV or the PEL (which ever is less) of the hazardous constituents.

RESPIRATORY PROTECTION: If ventilation is not adequate to reduce exposure to this product to a safe level, supplied air or respirator with approved NIOSH cartridge must be used.

EYE PROTECTION: Chemical splash goggles. HAND PROTECTION: Chemical resistant gloves.

BODY PROTECTION: Chemical resistant apron or full body protective clothing if the potential for whole body contamination exists.

WORK PRACTICES & HYGIENE PRACTICES: Observe all applicable and reasonable work practices consistent with the use of this product. Wash thoroughly with soap and water after each use.

STORAGE & HANDLING PRACTICES: Store in tightly closed container in cool, dry location, protected from environmental extremes.

9. LABELING

LABELING (Precautionary Statements): CAUTION! Keep out of reach of children. Contact with eyes or skin may cause irritation. Avoid contact with eyes, skin, food, cooking and eating utensils, and clothing. Do not inhale fumes or vapors.

DOT LABEL(S): None required

PREPARED BY:

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DATE OF PREPARATION:

5/12/12