



4516 Anaheim Ave. NE
Albuquerque, NM 87113
(505) 821-7620

Material Safety Data Sheet
Material/Trade Name: Non-Cyanide Silver
Stock Number(s): 335-018
MSDS Code: RIO-449

SECTION I PRODUCT/SUPPLIER INFORMATION

Material/Trade Name: Non-Cyanide Silver	Emergency Telephone No.: (800) 255-3924
Synonyms: Solution	Nonemergency Safety/Technical Information Telephone No.: (505) 821-7620
Stock Numbers: 335-018	Supersedes our version dated: Original
	Based on Manufacturer's MSDS: 07/26/90
	DATE PREPARED: 01/04/95

SECTION II INGREDIENT/EXPOSURE LIMIT INFORMATION

Component (synonym)	%	CAS No.	TLV	PEL	REL
Silver Succinimide	3.25	55047-82-0	.1 mg/m ³ (m,Ag) .01mg/m ³ (s,Ag)	.01 mg/m ³ (Ag)	.01 mg/m ³ (Ag) (Ag,m,s)
Potassium Hydroxide	2.77	1310-58-3	2 mg/m ³ (c)	N.E.	2 mg/m ³ (c)

m = Metal; s = Soluble Compounds of Silver; Ag = As Silver; N.E. = None Established (Exposure Limit)
c = Ceiling Limit

SECTION III PHYSICAL PROPERTIES

Vapor Pressure (mm Hg):	Not Available	Specific Gravity:	1.085
Vapor Density (Air = 1):	Not Available	Boiling Point:	Not Available
Solubility in Water:	Very Soluble	Evaporation Rate:	Not Available
Appearance:	Clear, water-white solution	Volatility (%):	Not Available
Odor:	Odorless	pH:	8-9
Melting Point:	Not Available		

SECTION IV FIRE AND EXPLOSION DATA

Flash Point: Inflammable	Flammable Limits:	LEL: Unknown
Auto Ignition Temperature: Not Available		UEL: Unknown

EXTINGUISHING MEDIA: Use extinguishing media appropriate for surrounding fire.

Special Fire Fighting Procedures: Fire fighters should wear full turnout gear and pressure-demand self-contained breathing apparatus (SCBA).

Unusual Fire and Explosion Hazards: Strong oxidizing solutions. May cause explosion or violent reaction with reducing agents.

SECTION V REACTIVITY DATA

Stable? Yes Conditions to Avoid: None Known

Incompatibility (Materials to Avoid): Reducing agents, aluminum, zinc, tin and chlorinated hydrocarbons.

Hazardous Decomposition Products: Toxic nitrogen oxides, hydrogen

Hazardous polymerization may occur? No Conditions to Avoid: None Known

SECTION VI HEALTH HAZARD DATA

Primary Routes of Exposure: Ingestion, inhalation, skin and eye contact, skin absorption

Acute Signs and Symptoms of Overexposure: May cause irritation to eyes, skin, and respiratory tract.

Chronic Signs and Symptoms of Overexposure: Long term exposure may cause argyria—a permanent bluish-grey discoloration of the skin



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SECTION VI HEALTH HAZARD DATA (Continued)

Carcinogenicity? No NTP IARC ACGIH OSHA

No ingredients listed in this section

Conditions That May Increase Overexposure Potential: Hazardous ingredients may be absorbed through the skin. Avoid contact if possible.

Medical Conditions Generally Aggravated by Exposure: None Known

FIRST AID PROCEDURES:

- Eye Contact:** Flush contaminated eye(s) with plenty of water for at least 15 minutes while holding eyelids open. Seek medical attention immediately if irritation persists or if injury has occurred.
- Skin Contact:** Warning! Hazardous ingredients may be absorbed through the skin. In case of skin contact, immediately wash skin with soap and plenty of water. Get medical attention if contact is severe or irritation persists.
- Inhalation:** If breathing has stopped, properly trained personnel should begin artificial respiration or cardiopulmonary resuscitation (CPR) immediately. Get medical attention immediately.
- Ingestion:** DO NOT INDUCE VOMITING. Have victim drink 8 to 10 ounces of water to dilute the material in the stomach. Obtain medical attention immediately.

SECTION VII PRECAUTIONS FOR SAFE HANDLING AND USE

Actions to Take For Spills: Dam spill to contain and absorb on inert material such as clay. Sweep up into plastic or plastic-lined container and send to Technic for refining (contains silver).

Waste Disposal: Dispose of via a licensed firm in accordance with federal, state and local regulations (see EPA 40 CFR 261).

Precautions to be Taken in Handling and Storage: Keep container closed. Store in a cool, dry place away from acids, reducing agents, combustible materials and food stuffs.

Community Right-to-Know Requirements: SARA 302: Silver Compounds, RQ= 1000 lbs; Potassium Hydroxide, RQ= 1000 lbs (see 40 CFR 355).

SARA 313: Annual release reporting requirements for Silver Compounds, Potassium Hydroxide (see 40 CFR 372.65).

SECTION VIII EMPLOYEE PROTECTION MEASURES

Ventilation: Local ventilation is preferred to meet TLV requirements. General ventilation is acceptable, if exposure is maintained below TLV.

Respiratory Protection: When airborne concentrations exceed TLV or are unknown, use a NIOSH/MSHA approved respirator for dust/mist/fume in accordance with OSHA respiratory protection requirements (29 CFR 1910.134).

Eye Protection: Chemical goggles/safety glasses with side shields **Protective Gloves:** Rubber gloves are recommended

Other Protective Equipment: As needed to prevent skin contact

Work/Hygiene Practices: Eyewash station and safety shower should be available in areas of use. Wash thoroughly after handling product.

The information herein is given in good faith, but no warranty, express or implied, is made.