

# MATERIAL SAFETY DATA SHEET

Silver Nitrate

## SECTION 1 . Product and Company Identification

Product Name and Synonym: Silver Nitrate

Product Code: S2121

Material Uses:

Manufacturer: Science Stuff  
1104 Newport Ave

Austin, TX 78753

(512) 837-6020

Entry Date : 6/18/2013

Print Date: 6/18/2013

24 Hour Emergency Assistance : Chemtrec 800-424-9300

Canutec 613-996-6666

Health:	3
Flammability:	0
Reactivity:	1

### Hazard Rating:

Least	Slight	Moderate	High	Extreme
0	1	2	3	4

NA=Not Applicable NE=Not Established

## SECTION 2 HAZARD IDENTIFICATION

Heat, shock, friction, or contact with other materials may cause fire or explosion. Harmful if swallowed. Avoid breathing vapor or dust. Use adequate ventilation. Avoid contact with eyes, skin or clothes. Wash thoroughly after handling. Keep closed.

## SECTION 3 MIXTURE COMPONENTS

SARA 313	Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
<input type="checkbox"/>	Silver Nitrate	CAS# 7761-88-8	100%	W/W	OSHA PEL 0.01 mg(Ag)/mf

## SECTION 4 FIRST AID MEASURES

Heat, shock, friction, or contact with other materials may cause fire or explosion. Harmful if swallowed. Avoid breathing vapor or dust. Use adequate ventilation. Avoid contact with eyes, skin or clothes. Wash thoroughly after handling. Keep closed.

FIRST AID: CALL A PHYSICIAN. SKIN: Remove contaminated clothing. Wash exposed area with soap and water.

EYES: Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen

INGESTION: Give several glasses of milk or water. Vomiting may occur spontaneously, but DO NOT INDUCE! Never give anything by mouth to an unconscious person.

## SECTION 5 FIRE FIGHTING MEASURES

Fire Extinguisher Type: Any means suitable for extinguishing surrounding fire

Fire / Explosion Hazards:

Not flammable

Fire Fighting Procedure:

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.

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**SECTION 6 ACCIDENTAL RELEASE MEASURES**

Absorb spill with inert material, then place in a chemical waste container. Dispose of in a manner consistent with federal, local law.

**SECTION 7 HANDLING AND STORAGE**

Store in a safe, dry place. Avoid contact with organics. DO NOT store in wooder, cardboard or paper cantainer.

**SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

Respiratory Protection: R57A (American Optical) HEPA type

Ventilation

Local Exhaust

Mechanical

Protective Gloves: Elbow length Neoprene

Eye Protection: Goggles or face mask

Other Protective Equipment: Rubber or plastic apron

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

Melting Point:	212 Deg C	Percent Volatile by Volume:	0
Boiling Point:	Information not available	Evaporation Rate	Information not available
Vapor Pressure:	Not volatile	Evaporation Standard	
Vapor Density:	5.8	Auto Ignition Temp	Does not ignite
Solubility in Water:	Soluble (952 gr/100 ml water)	Lower Flamm. Limit in Air	Not applicable
Appearance /Odors:	White odorless crystals	Upper Flamm. Limit in Air	Not applicable
Flash Point:	Not flammable		
Specific Gravity:	4.35		

**SECTION 10 STABILITY AND REACTIVITY INFORMATION**

Stability:	Stable
Conditions to Avoid:	Sunlight, Heat (Decomposes @ 444 deg C.)
Materials to Avoid:	Organics, reducing agents.
Hazardous Decomposition Products:	Nitrogen oxides
Hazardous polymerization:	Will Not Occur
Conditions to Avoid:	None known

**SECTION 11 Toxicological Information**

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Routes of Entry: Absorbed through skin. Dermal contact. Eye contact. Inhalation. Ingestion.  
Toxicity to Animals: Acute oral toxicity (LD50): 50 mg/kg [Mouse].  
Chronic Effects on Humans:  
Causes damage to the following organs: lungs. May cause damage to the following organs: mucous membranes, skin, eyes.  
Other Toxic Effects on Humans:  
Very hazardous in case of skin contact (irritant), of ingestion. Hazardous in case of skin contact (permeator), of inhalation.  
Slightly hazardous in case of skin contact (corrosive).  
Special Remarks on Toxicity to Animals: Not available.  
Special Remarks on Chronic Effects on Humans:  
May affect genetic material (mutagenic). May cause cancer based on animal test data. May cause adverse reproductive effects.  
Special Remarks on other Toxic Effects on Humans:  
Acute Potential Health Effects: Skin: Causes severe irritation and burns. It may cause dermatitis. It may be absorbed through the skin. Eyes: Causes severe irritation, corneal opacification, bleeding conjunctiva, burns of conjunctiva, argyria, blindness  
Inhalation: Causes irritaiton of the respiratory tract and mucous membranes with possible chemical burns. Symptoms may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, vomiting. Ingestion: Severe gastrointestinal tract irritation and burns, pain and burning in the mouth, violent abdominal pain, argyria -grayish/blackening of skin and mucous membranes, throat and abdomen, salivation, vomiting of black material, diarrhea, hypermotility, ulcerative gingivitis . May affect kidneys (lesions of kidneys, anuria, ), lungs

### SECTION 12 Ecological Information

Ecotoxicity: Not available.  
BOD5 and COD: Not available.  
Products of Biodegradation:  
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.  
Toxicity of the Products of Biodegradation: The products of degradation are less toxic than the product itself.  
Special Remarks on the Products of Biodegradation: Not available.

### SECTION 13 Disposal Considerations

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

### SECTION 14 Transport Information

DOT Classification: UN1493, Silver Nitrate, 5.1, PG II

DOT Regulations may change from time to time. Please consult the most recent D.O.T. regulations.

### SECTION 15 Regulatory Information

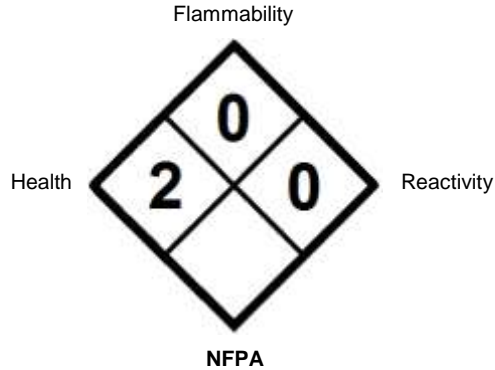
Federal and State Regulations:  
Connecticut hazardous material survey.: Silver nitrate Illinois chemical safety act: Silver nitrate New York acutely hazardous substances: Silver nitrate Rhode Island RTK hazardous substances: Silver nitrate Pennsylvania RTK: Silver nitrate  
Massachusetts RTK: Silver nitrate Massachusetts spill list: Silver nitrate New Jersey: Silver nitrate New Jersey spill list: Silver nitrate Louisiana spill reporting: Silver nitrate California Director's List of Hazardous Substances: Silver nitrate TSCA 8(b) inventory: Silver nitrate  
Other Regulations:  
OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).  
EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.  
Other Classifications:  
WHMIS (Canada):  
CLASS C: Oxidizing material. CLASS E: Corrosive solid.  
DSCL (EEC):  
R8- Contact with combustible material may cause fire. R20/22- Harmful by inhalation and if swallowed. R34- Causes burns.  
R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

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environment. S24/25- Avoid contact with skin and eyes. S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S28- After contact with skin, wash immediately with plenty of water S36/37/39- Wear suitable protective clothing, gloves and eye/face protection. S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S46- If swallowed, seek medical advice immediately and show this container or label. S60- This material and its container must be disposed of as hazardous waste. S61- Avoid release to the environment. Refer to special instructions/ Safety data sheets.

### SECTION 16

### Additional Information



#### Revisions

	0	
12/12/2011	0.1	Revised to 16 sections LS

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