



Material Safety Data Sheet

Silver nitrate, ACS

Section 1 - Chemical Product and Company Identification

MSDS Name:

Silver nitrate, ACS

Catalog Numbers:

LC22500

Synonyms:**Company Identification:**LabChem, Inc.
200 William Pitt Way
Pittsburgh, PA 15238**Company Phone Number:**

(412) 826-5230

Emergency Phone Number:

(800) 424-9300

CHEMTREC Phone Number:

(800) 424-9300

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	Percent
7761-88-8	Silver nitrate	100

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: Colorlesstograyish

Caution! Corrosive. May cause severe eye and skin irritation with possible burns. May cause severe respiratory and digestive tract irritation with possible burns.

Target Organs: Noneknown.

Potential Health Effects

Eye:

Eyeexposurecanleadtoconjunctionalorconjunctivaldamageleadingtoscarringorimpairedvisionorblindness.

Skin:

Maycauseskinirritation.



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Ingestion:

May cause sore throat, dyspnea, argyria (blue-grey coloration), irritation, methemoglobinemia (including use as antiseptic solution for skin, eyes.) Ingestion may cause mild to severe gastroenteritis that can be fatal. Symptoms include pain, burning, vomiting black material, diarrhea, anuria, collapse, shock, convulsions leading to coma and death.

Inhalation:

May cause respiratory tract irritation.

Chronic:

Argyria of the nose, throat, skin; bronchitis, pneumoconiosis, methemoglobinemia (from absorption of nitrates). Discoloration of the eye may occur without irritation or injury. Repeated or prolonged ingestion may result in argyria, renal and vascular hypotension.

Section 4 - First Aid Measures

Eyes:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids until no evidence of chemical remains. Get medical aid at once.

Skin:

Get medical aid. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Remove contaminated clothing and shoes.

Ingestion:

Do NOT induce vomiting. Get medical aid at once. Give conscious victim large quantities of water to dilute acid.

Inhalation:

Give artificial respiration if necessary. Get medical aid. Keep victim warm, at rest. Move victim to fresh air.

Notes to Physician:

Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information:

Move container if possible, avoid breathing vapors or dust. See reactivity section - form explosive compounds with many substances.

Extinguishing Media:

Use water only!

Autoignition Temperature:

No information found.

Flash Point:

No information found.

NFPA Rating:

CAS# 7761-88-8: Not published.

Explosion Limits:

Lower: Upper:



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Section 6 - Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Avoid runoff into storm sewers and ditches which lead to waterways. Use clean shovel or scoop, place in clean dry container - label for recovery or disposal. Residual dust may be flushed with flooding amounts of water. IF MATERIAL IS IN SOLUTION keep away from combustibles, fuels, other incompatible chemicals. Neutralize solutions to pH 7. Sodium sulfide solution may be used to precipitate heavy metals. Wear protective clothing, avoid breathing any vapors or dusts.

Section 7 - Handling and Storage

Handling:

Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing.

Storage:

Store capped at room temperature. Keep away from incompatible materials. Store as dry corrosive, protect from heat and moisture. See NFPA Publication 43A, Storage of Liquid and Solid Oxidizing Materials.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Provide local exhaust or general dilution ventilation.

Exposure Limits

Chemical Name:	ACGIH	NIOSH	OSHA
Silver nitrate	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.

OSHA Vacated PELs

Personal Protective Equipment

Eyes:

Do not wear contact lenses when working with chemicals. An eye wash fountain should be available in the immediate work area. Wear splash-proof safety goggles.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

0.5mg(Ag)/m³-HiEPF/SAF/SCBA. 10mg(Ag)/m³-PAPHiEF. 20mg(Ag)/m³-SAF:PD,PP,CF.

Section 9 - Physical and Chemical Properties

Physical State: Crystals

Color: Colorless to grayish



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Odor: Odorless
pH: No information found.
Vapor Pressure: No information found.
Vapor Density: No information found.
Evaporation Rate: No information found.
Viscosity: No information found.
Boiling Point: 831°F (443.89°C)
Freezing/Melting Point: 431°F (221.67°C)
Decomposition Temperature: No information found.
Solubility in water: Soluble.
Specific Gravity/Density: 4.3
Molecular Formula: No information found.
Molecular Weight: No information found.

Section 10 - Stability and Reactivity

Chemical Stability:

Highly reactive under normal conditions. Substance is an oxidizer, strong acid in water, and corrosive.

Conditions to Avoid:

Incompatible materials.

Incompatibilities with Other Materials

Ammonium hydroxide, aziridine, 1-bromo-2-propyne, calcium carbide, acetylene, ethyl alcohol, ethanol/nitric acid, ethyleneimine, ethylene oxide, ethyl hydroperoxide, oxalic acid, peroxymonosulfuric acid, phosphorus, phosphorus isocyanate, sulfur, tartaric acid, plastics, cuprous acetylide.

Hazardous Decomposition Products

Oxides of nitrogen.

Hazardous Polymerization

Has not been reported

Section 11 - Toxicological Information

RTECS:

CAS# 7761-88-8: VW4725000.

LD50/LC50:

CAS# 7761-88-8:
Oral, mouse: LD50 = 50 mg/kg.

Carcinogenicity:

CAS# 7761-88-8: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

Epidemiology:

Silver nitrate is a severe skin, eye, mucous membrane irritant; causes skin pigmentation, methemoglobin formation.



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Teratogenicity:

Reproductive:

Mutagenicity:

Neurotoxicity:

Section 12 - Ecological Information

No information found.

Section 13 - Disposal Considerations

Dispose of in accordance with Federal, State, and local regulations.

Section 14 - Transport Information

US DOT

Shipping Name: Silver nitrate

Hazard Class: 5.1

UN Number: UN1493

Packing Group: PG II

Section 15 - Regulatory Information

US Federal

TSCA

CAS#7761-88-8 is listed on the TSCA Inventory.

SARA Reportable Quantities (RQ)

CAS#7761-88-8: final RQ = 1 pound (0.454 kg)

CERCLA/SARA Section 313

None of the components are on this list.

OSHA - Highly Hazardous

None of the components are on this list.

US State

State Right to Know

Silver nitrate can be found on the following state Right-to-Know lists: California, New Jersey, Florida, Pennsylvania, Massachusetts.

California Regulations

European/International Regulations

Canadian DSL/NDSL

CAS# 7761-88-8 is listed on Canada's DSL List.



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Canada Ingredient Disclosure List

CAS# 7761-88-8 is listed on Canada's Ingredient Disclosure List.

Section 16 - Other Information

MSDS Creation Date: November 21, 1998

Revision Date: August 15, 2008

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