

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name Silver Nitrate 0.1N Solution

CAS number 7761-88-8
Synonyms Not available

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Laboratory chemical

1.3 Details of the supplier of the safety data sheet

Company Lab Alley, LLC

12501 Pauls Valley Road Austin, Texas 78737

U.S.A.

Telephone 512-668-9918 Fax 512-886-4008

1.4 Emergency telephone

Emergency Phone # US & Canada: 1-800-535-5053 INFOTRAC

International 1-352-323-3500 INFOTRAC

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin Corrosion/Irritation Category 1 B

Serious Eye Damage/Eye Irritation Category 1

Specific target organ toxicity (single exposure) Category 3 . Target Organs - Respiratory system.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word DANGER

Hazard statements Causes severe skin burns and eye damage

May cause respiratory irritation

Precautionary statements Prevention

Do not breathe dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection

Use only outdoors or in a well-ventilated area

Response

Immediately call a POISON CENTER or doctor/physician

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

breathing

Skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower

Wash contaminated clothing before reuse

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. ContinuerinsingIngestion

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

Storage Store locked up

Store in a well-ventilated place. Keep container tightly closed

Disposal

Dispose of contents/container to an approved waste disposal plant

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Toxic to aquatic life with long lasting effects

SECTION 3: Composition/information on ingredients

3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Water	-	7732-18-5	97-99%
Silver Nitrate	-	7761-88-8	1-3%

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required.

If not breathing, give artificial respiration. Remove from exposure, lie down. Donot usemouth-

to-mouth method if victim ingested or inhaled the substance; give artificial respirationwith the aid of a pocket mask equipped with a one-way valve or other proper respiratorymedical

device. Call a physician immediately.

In case of skin contact: Wash off immediately with plenty of water for at least 15 minutes. Remove

andwashcontaminated clothing and gloves, including the inside, before re-use. Call a

physician immediately.

In case of eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Immediate medical attention is required.

If swallowed Do NOT induce vomiting. Clean mouth with water. Never give anything by mouth to an

unconscious person. Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Causes burns by all exposure routes. Product is a corrosive material. Use of gastriclavage or emesis is contraindicated. Possible perforation of stomach or esophagusshouldbe investigated: Ingestion causes severe swelling, severe damage to the delicatetissueand danger of perforation.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician: Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Not combustible. CO 2, dry chemical, dry sand, alcohol-resistant

foam.

Unsuitable extinguishing media No information available

5.2 Specific hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors. The product causes burns of eyes, skin and mucous membranes

5.3 Special protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) andfull protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

Specific hazards during fire fighting

No information available

5.4 Further information

Suppress (knock down) gases/vapors/mists with a

water spray jet.

Prevent fire extinguishing water from contaminating

surface water or the ground water system.

5.5 Hzardous Combustion products

Nitrogen oxides (NOx), Silver/silver oxides

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment as required. Evacuatepersonnel to safe areas. Keep people away from and upwind of spill/leak.

6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system. Should not be releasedintotheenvironment. Do not allow material to contaminate ground water system.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

See Section 2 for full list of hazard and precaution statements.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handling

Wear personal protective equipment/face protection. Do not get in eyes, on skin, or onclothing. Use only under a chemical fume hood. Do not breathe mist/vapors/spray. Donotingest. If swallowed then seek immediate medical assistance.

Storage

Corrosives area. Keep containers tightly closed in a dry, cool and well-ventilatedplace.

SECTION 8: Exposure controls/personal protection

8.1 Occupational exposure limits

US. OSHA PEL

OO. OOHAT EE		
Component	Type	Value
Silver Nitrate	TWA	0.01 mg/m3 (Silver)

US. ACGIH Threshold Limit Values

Component	Type	Value
Silver Nitrate	TWA	0.01 mg/m3 (Silver)

US. NIOSH: Pocket Guide to Chemical Hazards

Component	Type	Value				
Silver Nitrate	TWA	0.01 mg/m3 (Silver)				

Biological occupational exposure limits

Not available

8.2 Exposure controls

Appropriate engineering controls

Ensure that eyewash stations and safety showers are close to the workstationlocation.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles

Skin protection

Wear appropriate protective gloves and clothing to prevent skin exposure

Body Protection

Wear appropriate protective gloves and clothing to prevent skin exposure

Respiratory protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or EuropeanStandardEN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene measures

Handle in accordance with good industrial hygiene.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State Liquid Appearance Colorless

Odor No information available
Odor Threshold No information available
pH No information available
Melting Point/Range No information available
Boiling Point/Range No information available
Evaporation Rate No information available

Flammability (solid) Not applicable

Flammability or explosive limit

Upper No data available
Lower No data available
Vapor Pressure 23 hPa @ 20 °C
Vapor Density No data available
Density No data available
Solubility Not applicable

Partition coefficient;

n-octanol/water

Autoignition Temp

Decomposition Temp

Viscosity

Molecular Formula

Molecular Weight

VOC Content(%)

Oxidizing properties

No data available

No data available

AgNO3

Molecular Weight

No data available

AgNO3

No data available

Oxidizing properties 9.2 Other safety information

Not available

SECTION 10: Stability and reactivity

10.1 Reactivity

None known, based on information available

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions

Decomposes on exposure to light. None under normal processing.

10.4 Conditions to avoid

Light. Incompatible products.

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

Nitrogen oxides (NOx), Metal oxides

10.7 Hazardous Polymerization

Hazardous polymerization does not occur.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product Information, Component Information

Acute toxicity

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Component		LD50 Oral LD50 Dermal LC50 In		LC50 Inhalation		
	Silver Nitrate	No data available	No data available	No data available		

Skin corrosion/irritation

No information available

Serious eye damage/eye irritation

No information available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No information available

Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Silver Nitrate	7761-88-8	0.10%	0.10%	-	0.10%	-

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC, NTP, OSHA.

Specific target organ toxicity - single exposure

Respiratory system

Specific target organ toxicity - repeated exposure

No data available

Reproductive toxicity

May damage the unborn child.

Chronic effects

No data available

11.2 Additional Information

The toxicological properties have not been fully investigated.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish

Not available

Toxicity to daphnia and other aquatic invertebrates

Not available

Toxicity to algae/aquatic plants

Not available

M-Factor (Acute aquatic toxicity)

Not available

Toxicity to fish (Chronic toxicity)

Not available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

Not available

M-Factor (Chronic aquatic toxicity)

Not available

12.2 Persistence and degradability

Remarks: The methods for determining the biological degradability are not applicable to inorganic substances.

12.3 Bio accumulative potential

No information available.

12.4 Mobility in soil

Will likely be mobile in the environment due to its water solubility.

12.5 Results of PBT and vPvB assessment

No data available

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

Not available

SECTION 13: Disposal considerations

13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

SECTION 14: Transport information

DOT (US)

UN/ID/NA number: UN 3264

Proper shipping name: Corrosive liquid, acidic, inorganic, n.o.s.

Class: 8

Packing group: III

Technical name: Silver Nitrate Solution

IMDG

UN/ID/NA number: UN 3264

Proper shipping name: Corrosive liquid, acidic, inorganic, n.o.s.

Class: 8

Packing group: III

Technical name: Silver Nitrate Solution

IATA

UN/ID/NA number: UN 3264

Proper shipping name: Corrosive liquid, acidic, inorganic, n.o.s.

Class: 8

Packing group : III

Technical name: Silver Nitrate Solution

SECTION 15: Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not applicable

CERCLA Hazardous Substance List (40 CFR 302.4)

Component RQ (lbs)

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not applicable

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not applicable

SARA 311/312 Hazardous

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

SARA 313 (TRI reporting)

The following components are subject to reporting levels established by SARA Title III, Section 313: Silver nitrate 7761-88-8, 16-18 %

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not applicable

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not applicable

Safe Drinking Water Act

Not applicable

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing

Workplace

Not applicable

Reach links

https://echa.europa.eu/substances-restricted-under-reach

Clean Water Act

Silver Nitrate, RQ: 1lbs

U.S. State Right-to-Know Regulations

Massachusetts

Silver nitrate 7761-88-8

US. New Jersey

Silver nitrate 7761-88-8

Pennsylvania

Silver nitrate 7761-88-8

Illionois

Silver nitrate 7761-88-8

Rhode Island

Silver nitrate 7761-88-8

The ingredients of this product are reported in the following inventories: $\ensuremath{\mathsf{TSCA}}$:

All substances listed as active on the TSCA inventory

California Proposition 65

Not listed.

SECTION 16: Other information

Issue date: 4/16/2025

SECTION 17: Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.