HealthLink®
A Family of Medical Products
Joining Forces to Serve the Healthcare Community

CLOROX HEALTHCARE®

Safety Data Sheet

Silver Nitrate 0.1-10%

Revision Date: 06/04/15

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Silver Nitrate 0.1-10%
Product code: 400497, 400516, 400517, 400518, 400686

Supplier:
HealthLink, Inc
3611 St Johns Bluff Road, Suite 1
Jacksonville, FL 32224
800-638-2625
Monday-Friday: 8:00 -5:00 PM

Synonym: None.
Material uses: Laboratory Reagent.
Validation date: 01/13/2014
In case of emergency: 800-424-9300 CHEMTREC (USA)
24 Hours/Day: 7 Days/Week

2. HAZARDS IDENTIFICATION

Emergency Overview

Target Organs: Central nervous system, blood, liver, kidneys, and heart

GHS Labeling, Pictograms



Signal word: Warning!

Hazard statement(s):
H315: Causes skin irritation (Cat 5).
H319: Causes serious eye irritation (Cat 2/2A).
H412: Harmful to aquatic life with long lasting effects (Cat 4)

Precautionary statement(s):
P264: Do not breathe spray or vapors
P264: Wash exposed skin thoroughly after handling
P280: Wear eye protection, protective clothing, protective gloves, face protector

OSHA Hazards
No known OSHA hazards.

GHS Classification
Skin irritation (Category 2), Eye irritation (Category 2A), acute aquatic toxicity (category 1)

NFPA	HMIS Classification
Health Hazard: 3	Health Hazard: 3
Fire: 0	Flammability: 0
Reactivity: 0	Physical hazards: 3

Potential Health Effects
Inhalation – May be harmful if inhaled.
Skin – May stain skin, may cause moderate irritation.
Eyes – Causes eye irritation.
Ingestion – Nausea, vomiting, diarrhea, methemoglobinemia, and change in urine output.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS number	%
Silver Nitrate	7761-88-8	1
Water	7732-18-5	Balance

4. FIRST AID MEASURES

Eye contact: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

Skin contact: In case of contact, flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

Inhalation: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

Ingestion: Call medical doctor or poison control center immediately. Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

5. FIRE-FIGHTING MEASURES

Flammability of the product: Not flammable

Extinguishing media: Water spray, dry chemical, CO2, and foam.

Not suitable: Do not use water jet.

Special exposure hazards: May emit toxic fumes under fire conditions.

Hazardous thermal decomposition products: Decomposition products may include the following materials: silver oxides, nitrogen oxides

Special protective equipment for fire-fighters: Fire-fighters should wear protective clothing with NIOSH approved breathing apparatus. Products of combustion may be harmful in fire situation. Do not use direct water stream.

Special remarks on explosion hazards: May emit toxic fumes under fire conditions.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or

flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Spill: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container.

7. HANDLING AND STORAGE

Handling: Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Use empty containers to retain product, residue can be hazardous. Do not reuse container.

Storage: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container, protected from direct sunlight. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Consult local authorities for acceptable exposure limits.

Engineering measures: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

USA ACGIH	ACGIH TWA (mg/m^3)	1.0 mg/m^3
USA OSHA	OSHA PEL TWA (mg/m^3)	1.0 mg/m^3

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protection

Respiratory: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hands: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Recommended: neoprene

Eyes: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. Recommended: splash goggles

Skin: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Recommended: lab coat

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid.	**Color:**	Clear
Flash Point:	Not available.	**Odor:**	Odorless
pH:	Not available.	**Boiling/condensation point:**	~212°F
Melting/freezing point:	Not available.	**Relative density:**	Not available.
Vapor pressure:	Not available.	**Vapor density:**	Not available
Odor threshold:	Not available.	**Evaporation rate:**	Not available.
VOC:	Not available.		
Solubility:	Soluble in the following materials: water		

10. STABILITY AND REACTIVITY

Chemical stability: The product is stable.

Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

Hazardous polymerization: Under normal conditions of storage and use, hazardous polymerization will not occur.

Conditions to avoid:

Materials to avoid: None.

Hazardous decomposition products: Oxides of nitrate

Conditions of reactivity: Under normal condition of storage and use, reactivity reactions will not occur.

11. TOXICOLOGICAL INFORMATION

Principle Routes of Exposure: Skin, Eyes, and Respiratory Tract

Acute toxicity

Oral LD50

No data available

Inhalation LC50

no data available

Dermal LD50
no data available

Other information on acute toxicity
no data available

Ingestion: Nausea, vomiting, diarrhea, blue/grey discolouration of the skin, methemoglobinemia, change in urine output.

Skin: Causes serious skin burns.

Inhalation: No known significant effects or critical hazards except possibly in laboratory animals.

Eye Contact: Causes serious eye damage.

Carcinogenicity: IARC, not classifiable as to humans (Phenol). NTP, No component of this product at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen. OSHA, No component of this product at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen

Mutagenicity: No known significant effects or critical hazards except possibly in laboratory animals.

Teratogenicity: No known significant effects or critical hazards except possibly in laboratory animals.

Reproductive: No known significant effects or critical hazards except possibly in laboratory animals.

12. ECOLOGICAL INFORMATION

Toxicity
Harmful to aquatic life. Harmful to aquatic life with long lasting effects

Persistence and degradability
May cause long-term adverse effects in the environment.

Bioaccumulative potential
no data available

Mobility in soil
no data available

PBT and vPvB assessment
no data available

Other adverse effects
no data available

13. DISPOSAL CONSIDERATIONS

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1493
Class: 5.1
Packing group: II
Proper shipping name: Silver Nitrate
Marine pollutant: yes

Poison Inhalation Hazard: No

IMDG
UN number: 1493
Class: 5.1
Packing group: II
Proper shipping name: Silver Nitrate
Marine pollutant: yes
Poison Inhalation Hazard: No

IATA
UN number: 1493
Class: 5.1
Packing group: II
Proper shipping name: Silver Nitrate
Marine pollutant: yes
Poison Inhalation Hazard: No

TDG
UN number: 1493
Class: 5.1
Packing group: II
Proper shipping name: Silver Nitrate
Marine pollutant: yes
Poison Inhalation Hazard: No

15. REGULATORY INFORMATION

United States
HCS Classification: Not available

U.S. Federal regulations: **TSCA 8(a) IUR**: No products were found.
United States inventory (TSCA 8b): No products were found.
SARA 302/304/311/312 extremely hazardous substances: No products were found.
SARA 302/304 emergency planning and notification: No products were found.
SARA 302/304/311/312 hazardous chemicals: Silver Nitrate
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Silver Nitrate
Clean Water Act- Toxic Pollutants: CAS# 7761-88-8 (Silver compounds) is listed as a toxic pollutant under the CWA
Clean Water Act- Hazardous Substances: CAS# 7761-88-8

DEA List I Chemicals (Precursor Chemicals): Not listed
DEA List II Chemicals (Essential Chemicals): Not listed

SARA 313

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall\ include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

RTK: Silver nitrate: CA, NJ, PA, MN, MA

California Prop. 65, This product does not contain a chemical known to the State of California to cause birth defects or other reproductive harm.

CANADA

WHMIS (Canada): **Class E- corrosive material**
Class C- Oxidizing material

Canadian lists: **CEPA Toxic substances**: None of the components are listed.
Canadian ARET: None of the components are listed.
Canadian NPRI: None of the components are listed.
Alberta Designated Substances: None of the components are listed.
Ontario Designated Substances: None of the components are listed.
Quebec Designated Substances: None of the components are listed.

CEPA DSL / CEPA NDSL: All components are listed or exempted.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

International regulations

International lists: **Australia inventory (AICS)**: All components are listed or exempted.
China inventory (IECSC): All components are listed or exempted.
Japan inventory: All components are listed or exempted.
Korea inventory: All components are listed or exempted.
New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.
Philippines inventory (PICCS): All components are listed or exempted.

16. OTHER INFORMATION

National Fire Protection Association (U.S.A.)



Notice to reader

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Healthlink shall not be liable for any damage resulting from handling of contact with this product.