according to 29CFR1910/1200 and GHS Rev. 3

Initial preparation date: : 01.31.2015

# Silver Nitrate, 0.02 N

# SECTION 1: Identification of the substance/mixture and of the supplier

Product name:

Silver Nitrate, 0.02 N

# Manufacturer/Supplier Article number: SN3360SS

Recommended uses of the product and restrictions on use: Laboratory Chemicals

# Manufacturer Details:

AquaPhoenix Scientific, Inc. 860 Gitts Run Road Hanover, PA 17331 1-717-632-1291

# **Emergency telephone number:**

# ChemTel: (24-hour)

+1(800)255-3924 +1(813)248-0585 (International)

# **SECTION 2: Hazards identification**

# Classification of the substance or mixture:

Aquatic Acute 3. Aquatic Chronic 3.

# Signal word: None

# Hazard statements:

Harmful to aquatic life with long lasting effects.

# **Precautionary statements:**

If medical advice is needed have product container or label at hand. Keep out of reach of children. Read label before use. Avoid release to the environment.

# Other Non-GHS Classification: None

# **SECTION 3: Composition/information on ingredients**

# Ingredients:

Ingredients:				
CAS 7732-18-5	Deionized Water	99.661 %		
CAS 7761-88-8	Silver Nitrate	0.339 %		
		Percentages are by weight		

# **SECTION 4: First aid measures**

# Description of first aid measures

# After inhalation:

Move exposed to fresh air. Give artificial respiration if necessary. If breathing is difficult give oxygen. Loosen

according to 29CFR1910/1200 and GHS Rev. 3

# Initial preparation date: : 01.31.2015

# Silver Nitrate, 0.02 N

clothing and place exposed in a comfortable position. Seek medical assistance if cough or other symptoms appear.

#### After skin contact:

Wash hands and exposed skin with soap and plenty of water. Seek medical attention if irritation persists or if concerned. Seek immediate medical assistance.

#### After eye contact:

Protect unexposed eye. Flush exposed eye gently using water for 15-20 minutes. Remove contact lenses, if present and easy to do, and continue rinsing. Seek immediate medical assistance.

#### After swallowing:

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention if irritation, discomfort, or vomiting persists.

# Most important symptoms and effects, both acute and delayed:

Irritation. Shortness of breath. Headache. Nausea. Dizziness. Absorption into the body leads to the formation of methemoglobin which in sufficient concentration causes cyanosis. Onset may be delayed 2 to 4 hrs. or longer.

#### Indication of any immediate medical attention and special treatment needed:

If seeking medical attention provide SDS document to physician. Physician should treat symptomatically.

#### **SECTION 5: Firefighting measures**

# Extinguishing media

#### Suitable extinguishing agents:

Use water, dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam.

#### Unsuitable extinguishing agents: None

# Special hazards arising from the substance or mixture:

Thermal decomposition can lead to release of irritating gases and vapors. nitrogen oxides (NOx), Silver/silver oxides.

# Advice for firefighters:

# **Protective equipment:**

Wear protective eyeware, gloves, and clothing. Refer to Section 8.

#### Additional information (precautions):

Avoid inhaling gases, fumes, dust, mist, vapor, and aerosols. Avoid contact with skin, eyes and clothing.

# **SECTION 6: Accidental release measures**

# Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation. Ensure that air-handling systems are operational. Avoid contact with eyes, skin, and clothing.

# **Environmental precautions:**

Should not be released into environment. Prevent from reaching drains, sewer, or waterway.

# Methods and material for containment and cleaning up:

Wear protective eyeware, gloves, and clothing. Always obey local regulations. If necessary use trained response staff or contractor. Evacuate personnel to safe areas. Containerize for disposal. Refer to Section 13. Keep in suitable closed containers for disposal. Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Refer to Section 8.

# **Reference to other sections:** None **SECTION 7: Handling and storage**

# Precautions for safe handling:

according to 29CFR1910/1200 and GHS Rev. 3

# Initial preparation date: : 01.31.2015

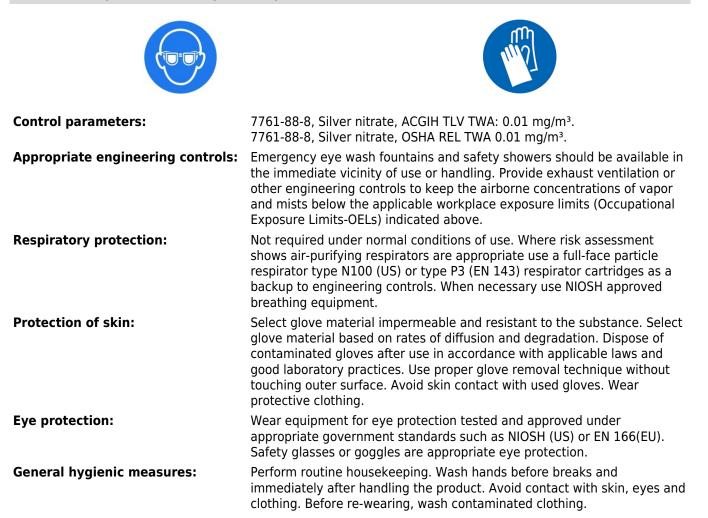
# Silver Nitrate, 0.02 N

Avoid contact with skin, eyes and clothing. Follow good hygiene procedures when handling chemical materials. Refer to Section 8. Follow proper disposal methods. Do not eat, drink, smoke, or use personal products when handling chemical substances. Refer to Section 13.

# Conditions for safe storage, including any incompatibilities:

Store in a cool location. Keep away from food and beverages. Protect from freezing and physical damage. Provide ventilation for containers. Keep container tightly sealed. Store away from incompatible materials. Protect from light. Recommended storage temperature: 2 - 8°C.

# **SECTION 8: Exposure controls/personal protection**



# **SECTION 9: Physical and chemical properties**

Appearance (physical state, color):		Explosion limit lower: Explosion limit upper:	Not determined Not determined
Odor:	Odorless	Vapor pressure at 20°C:	14 mmHg at 20°C
Odor threshold:	Not determined	Vapor density:	0.7
pH-value:	Not determined	Relative density:	Approx. 1
Melting/Freezing point:	Approx. 0°C	Solubilities:	Soluble in water.
Boiling point/Boiling range:		Partition coefficient (n- octanol/water):	Not determined
Flash point (closed cup):		Auto/Self-ignition temperature:	Not determined

according to 29CFR1910/1200 and GHS Rev. 3

Initial preparation date: : 01.31.2015

Silver Nitrate,0.02 N					
Evaporation rate:		Decomposition temperature:	Not determined		
Flammability (solid, gaseous):	Not determined		a. Kinematic: n b. Dynamic: Not determined		
Density at 20°C:	Not determined				

# **SECTION 10: Stability and reactivity**

# **Reactivity:**

Nonreactive under normal conditions.

# **Chemical stability:**

Stable under normal conditions.

# **Possible hazardous reactions:**

None under normal processing.

# **Conditions to avoid:**

Incompatible materials. Excess heat. Light.

# Incompatible materials:

Ammonium Hydroxide, organic materials, sulfides, charcoal, acetylene, ethanol, reducing agents, calcium carbide, alkalis, antimony salts, carbonates, bromides, arsenites, chlorides, ferrous salts, thiocyanates, lodides, tartrates, tannic acid and phosphates.

# Hazardous decomposition products: None

# **SECTION 11: Toxicological information**

Acute Toxicity: No additional information. Chronic Toxicity: No additional information. Skin corrosion/irritation: No additional information. Serious eye damage/irritation: No additional information. Respiratory or skin sensitization: No additional information. Carcinogenicity:

# There are no known carcinogenic chemicals in this product.:

Germ cell mutagenicity: No additional information. Reproductive Toxicity: No additional information. STOT-single and repeated exposure: No additional information. Additional toxicological information: No additional information.

# **SECTION 12: Ecological information**

Ecotoxicity: No additional information. Persistence and degradability: No additional information. Bioaccumulative potential: No additional information. Mobility in soil: No additional information. Other adverse effects:

# Toxicity of Silver to aquatic life depends on hardness: the higher the concentration of hardness, the higher the concentration of silver needed to be considered toxic. Has high chronic toxicity to aquatic life which can cause shorten life span, reproductive problems, lower fertility, and changes in appearances and behavior.

according to 29CFR1910/1200 and GHS Rev. 3

**Initial preparation date:** : 01.31.2015

Silver Nitrate, 0.02 N

#### **SECTION 13: Disposal considerations**

# Waste disposal recommendations:

Contact a licensed professional waste disposal service to dispose of this material. Dispose of empty containers as unused product. Product or containers must not be disposed together with household garbage. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). 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. Ensure complete and accurate classification.

# **SECTION 14: Transport information**

# **US DOT**

UN Number: ADR, ADN, DOT, IMDG, IATA

Limited Quantity Exception:

Bulk: RQ (if applicable): None Proper shipping Name: Not Regulated. Hazard Class: None Packing Group: Not Regulated. Marine Pollutant (if applicable): No additional information. Comments: None Not Regulated.

None

Non Bulk: RQ (if applicable): None Proper shipping Name: Not Regulated. Hazard Class: None Packing Group: Not Regulated. Marine Pollutant (if applicable): No additional information. Comments: None

# **SECTION 15: Regulatory information**

# **United States (USA)**

SARA Section 311/312 (Specific toxic chemical listings):

Acute,Chronic

SARA Section 313 (Specific toxic chemical listings):

7761-88-8 Silver nitrate.

RCRA (hazardous waste code):

None of the ingredients are listed.

# TSCA (Toxic Substances Control Act) :

All ingredients are listed.

# CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):

7761-88-8 Silver nitrate 1000 lbs.

# Proposition 65 (California):

# Chemicals known to cause cancer:

None of the ingredients are listed.

# Chemicals known to cause reproductive toxicity for females:

according to 29CFR1910/1200 and GHS Rev. 3

Initial preparation date: : 01.31.2015

# Silver Nitrate, 0.02 N

None of the ingredients are listed.

# Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

#### Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

#### Canada

# Canadian Domestic Substances List (DSL) :

7761-88-8 Silver nitrate : not listed. 7732-18-5 Deionized Water: not listed.

# **SECTION 16: Other information**

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. Note. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

NFPA: 1-0-0 HMIS: 1-0-0 GHS Full Text Phrases: None

Abbreviations and Acronyms: None