# TECHNIC, INC. SAFETY DATA SHEET

# **SECTION 1. IDENTIFICATION**

Product Name: SILVER NITRATE Product Code: 90-100 Recommended use: For industrial use only. Supplier: Technic Inc. 1 Spectacle Street Cranston, RI 02910 USA Telephone no: 401-781-6100 Emergency no: ChemTrec 800-424-9300, Outside the USA and Canada 703-527-3887

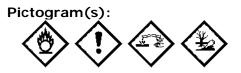
# **SECTION 2. HAZARD IDENTIFICATION**

#### **Classification:**

Oxidizing Liquids, Category 2 Acute Toxicity - Oral, Category 4 Skin Corrosion/Irritation, Category 1B Eye Damage/Irritation, Category 1 Acute Aquatic Toxicity, Category 1 Chronic Aquatic Toxicity, Category 1

#### Label elements and precautionary statements:

Signal word: Danger



#### Hazards not otherwise classified: None

#### Hazard statement(s):

May intensify fire; oxidizer Harmful if swallowed Causes severe skin burns and eye damage Very toxic to aquatic life with long lasting effects

#### Precautionary statement(s):

Keep away from heat, sparks, open flames and hot surfaces. No smoking. Keep away from clothing and other combustible materials. Take any precautions to avoid mixing with combustible materials. Wear protective gloves, clothing and eye and face protection. In case of fire: Use water to extinguish. Wash hands thoroughly after handling. Do not breathe dust, fume, gas, mist, vapors or spray.

Do not eat, drink or smoke when using this product.

If swallowed: Call a poison center or doctor/physician if you feel unwell. Rinse mouth, do not swallow.

If swallowed: Rinse mouth. DO NOT induce vomiting.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Wash contaminated clothing before reuse.

Avoid release to the environment.

Collect spillage.

Dispose of contents and container in accordance with local, state and federal regulations.

## **SECTION 3. COMPOSITION AND INFORMATION ON INGREDIENTS**

#### Chemical name

Silver nitrate

**CAS Number** 7761-88-8

**EINECS Number** 231-853-9

**Concentration** 42 - 65%

## **SECTION 4. FIRST AID MEASURES**

#### Inhalation:

Remove patient to fresh air. Support breathing if required. Obtain medical treatment for dizziness, unconsciousness or irritation or difficulty in breathing.

#### Skin contact:

Remove contaminated clothing and wash affected area thoroughly with soap and water. Launder clothing before rewearing. Seek medical attention for prolonged skin irritation.

#### Eye contact:

Flush with water, including under lids, for fifteen minutes. Obtain immediate medical attention.

#### Ingestion:

If patient is conscious, rinse mouth and drink at least two large glasses of water. DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Obtain immediate medical attention.

## **SECTION 5. FIRE-FIGHTING MEASURES**

**Suitable extinguishing media:** Use media appropriate for surrounding fire such as foam, extinguishing powder, carbon dioxide or water spray. In case of fire, cool endangered containers with water spray.

Unsuitable extinguishing media: High pressure water jet.

Specific hazards in case of fire: Contact with combustible materials may cause fire.

**Special protective equipment and precaution for fire fighters:** For fires in enclosed areas, wear self-contained breathing apparatus and full protective gear. Do not inhale combustion gases.

# SECTION 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures:

Wear appropriate skin, eye and respiratory protection. Do not eat, drink or smoke while cleaning up. Ensure adequate ventilation.

#### Methods and materials for containment and cleaning up:

Wear appropriate personal protective gear including eye, skin and respiratory protection. Contain spilled material and collect for recovery by absorption with non-flammable material. Flush spill area with water. Do not allow this material or its rinsings to enter storm or sanitary sewers or other waterways. (See also Section 13).

#### Environmental precautions:

Prevent spills and rinsings from entering storm or sanitary sewers or other waterways and contact with soil.

## **SECTION 7. HANDLING AND STORAGE**

#### Precautions for safe handling:

Avoid contact with eyes. Avoid prolonged repeated skin contact and breathing mists or vapors. Use in well-ventilated area. Do not empty waste into sanitary drains.

#### Conditions for safe storage, including incompatibilities:

Store in a cool, dry area. Use with adequate ventilation. Keep container tightly closed when not in use. Store only in the original container.

# SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits:

Ingredient Silver nitrate

r nitrate

ACGIH TLV 0.01 mg/m<sup>3</sup> (Ag) TWA

OSHA PEL 0.01 mg/m<sup>3</sup> (Ag)

Other Limits 0.01 mg/m<sup>3</sup> (Ag) NIOSH REL

#### Appropriate engineering controls:

Use in well-ventilated area with local exhaust.

#### **Respiratory protection:**

Wear appropriate, approved respiratory protection when ventilation is inadequate to meet exposure limits.

#### Eye protection:

Chemical splash goggles or safety glasses with side shields must be worn.

#### Skin protection:

Wear rubber or neoprene gloves. Wear rubber apron and long sleeves to prevent skin contact. Wash hands thoroughly with soap and water after handling and before eating or smoking.

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state: Liquid **Color:** Colorless Odor: None Odor threshold: Not available pH: Not determined Melting/freezing point: Not determined Initial boiling point: Not determined Flash point: Not applicable Evaporation rate: Not available Flammability (solid, gas): Not applicable Upper/lower explosion limits: Non-explosive Vapor pressure: Not determined Vapor density: Not determined **Relative density (H<sub>2</sub>O = 1) @25 °C:** 1.54 – 2.10 Solubility: Completely soluble in water at 20 °C Partition coefficient octanol/water: Not determined Auto-ignition temperature: Not applicable Decomposition temperature: Not available Viscosity: Not applicable

### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity: Stable, non-reactive when stored and used according to recommendations.

Chemical stability: No decomposition if used according to specifications.

Possibility of hazardous reactions: None are known.

Conditions to avoid: None reported.

**Incompatible materials:** Combustible materials, strong oxidizing and reducing agents. **Hazardous decomposition products:** Oxides of silver and nitrogen.

# SECTION 11. TOXICOLOGICAL INFORMATION

#### **Routes of Exposure and Symptoms**

**Inhalation:** Mist will cause irritation of nasal and respiratory tract with coughing.

**Ingestion:** Causes gastroenteritis, dizziness, weakness, cramps, bloody diarrhea and convulsions.

Skin Contact: Causes severe skin burns.

Eye Contact: Causes severe eye damage.

Acute and Chronic Effects from Short- and Long-term Exposure:

See Routes of Exposure and Symptoms above.

Acute Oral Toxicity: LD50: 1173 mg/kg (rat, silver nitrate)

LDLo: 800 mg/kg (rabbit, silver nitrate)

Acute Dermal Toxicity: No applicable information available.

Acute Inhalation Toxicity: No applicable information available.

Acute Eye Irritation: 1 mg, severe (rabbit, silver nitrate)

**Dermal Irritation:** Prolonged exposure can lead to argyria, a generalized grayish pigmentation of the skin and mucous membranes. Such symptoms usually occur after at least two years of exposure. There are no systemic effects, other symptoms or physical disabilities known to be associated with this condition.

#### Carcinogen Listings:

IARC: No NTP: No OSHA: No

**Reproductive Effects:** No applicable information available.

Target Organ Effects: No applicable information available.

## **SECTION 12. ECOLOGICAL INFORMATION**

Aquatic Toxicity: NOEC: 0.108 mg/l - 96 hour, Rainbow trout

LOEC: 0.007 mg/l - 7 day, Rainbow trout

LC50: 0.006 mg/l - 96 hour, Rainbow trout

EC50: 0.0006 mg/l - 48 hour, Daphnia magna

Persistence and degradability: There are no data reported for this material.

**Bio-accumulative potential:** There is evidence to suggest bioaccumulation will occur.

**Mobility in soil:** Accidental spillage may lead to penetration in the soil and groundwater. Improper handling and disposal of this material may cause environmental damage.

# SECTION 13. DISPOSAL CONSIDERATIONS

#### Waste Disposal:

Disposal of this material is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal.

# **SECTION 14. TRANSPORT INFORMATION**

Classification for shipment by road or rail, sea (IMDG) and air (IATA/ICAO):

UN proper shipping name:	Silver Nitrate
UN number:	UN1493
Transport hazard class:	5.1
Packing group:	H

Marine Pollutant: No

## **SECTION 15. REGULATORY INFORMATION**

Inventory Status: All components are on TSCA, EINECS/ELINCS, AICS, and DSL.

U.S. Regulations:

#### U.S. Superfund Amendments and Reauthorization Act (SARA) Title III:

#### SARA (311/312) HAZARD CATEGORIES:

\_\_\_\_None <u>X\_</u>Immediate \_\_\_\_Delayed <u>X\_</u>Fire \_\_\_\_Reactive \_\_\_\_Pressure generating

SARA 313: This product contains the following SARA 313 Toxic Release Chemicals.Chemical NameCAS NumberSilver nitrate7761-88-842 - 65%

The following product components are cited on the lists below:Chemical NameCAS NumberNoneList CitationsCalifornia Proposition 65 List

## **SECTION 16. OTHER INFORMATION**

VOC (Volatile Organic Compounds): None

HMIS Ratings:

Health: 2 Flammability: 0 Reactivity: 0 Personal Protection: C

Prepared by: Allan H. Reed

**SDS Preparation date:** May 11, 2015 **Supersedes previous version:** New SDS.

This SDS contains revisions in the following section(s): Not applicable. New SDS.

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End of Safety Data Sheet