

Safety Data Sheet

SECTION 1 -- IDENTIFICATION

Product Name: SILVER DIHYDROGEN CITRATE

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Distributed By: PURE Bioscience, Inc.
771 Jamacha Road, #512
El Cajon, CA 92019
Telephone: 619-596-8600
Email: technicalinfo@purebio.com

Other names:

SDC.0240.DX0, SDC, SDC2400



Recommended Uses: Concentrated antimicrobial agent.

In Case of Emergency: Have the product container or label with you when calling a poison control center or doctor. You may contact CHEMTREC 1-800-424-9300 for emergency medical treatment information.

SECTION 2 -- HAZARDS IDENTIFICATION

GHS Classification – Eye Damage/Irritation Category 2B

Signal Word: Warning

Hazard Statement: Causes eye irritation

Precautionary Statements: Wash contacted areas of body thoroughly after handling. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

HMIS Rating

Health	1
Flammability	0
Reactivity	0

SECTION 3 -- COMPOSITION / INFORMATION ON INGREDIENTS

Components: The specific chemical identities and exact percentages (concentrations) of composition have been withheld as a trade secret.

Ingredients	Wt%
None of the ingredients is considered hazardous according to the criteria of 29CFR1910.1200 and DOT Reg 49 CFR 172. Ingredients are listed for informational purposes to assist emergency medical response personnel.	
Water (CAS No. 7732-18-5)	> 76
Citric Acid (CAS No. 77-92-9)	< 22
Silver Ions	0.24

SECTION 4 -- FIRST-AID MEASURES

Eye Contact: Hold eyelids open and flush thoroughly with a steady, gentle stream of water for at least 15 minutes. If irritation persists consult a physician.
Skin Contact: Rinse with water. If irritation persists consult a physician.
Inhalation: If breathing is affected, remove victim to fresh air and consult a physician.
Ingestion: If irritation or discomfort occurs, call a physician. DO NOT INDUCE VOMITING.

SECTION 5 -- FIRE-FIGHTING MEASURES

Flammability: Not flammable or combustible.

Flammable Limits: Not applicable.

Extinguishing Media: Not applicable.

Fire and Explosion Hazards: None.



SECTION 6 -- ACCIDENTAL RELEASE MEASURES

Response to Spills: SMALL SPILLS: Contain spill, flush to sanitary sewer, and rinse area with water. LARGE SPILLS: Dike or dam spill, pump to containers or soak up with inert absorbent, and prevent runoff to creeks and waterways. Personal Protective Equipment is not normally required. If contact is likely or for prolonged or repeated contact with concentrate, eye and hand protection is recommended.

SECTION 7 -- HANDLING AND STORAGE

Handling Precautions: Close container tightly when not in use. After dilution, rinse hands and measuring containers with water.

Storage Precautions: Store concentrate in a cool, dry place. Do not contaminate food, feed, or drinking water with concentrate. Keep concentrate from freezing. Keep concentrate out of direct sunlight.

SECTION 8 -- EXPOSURE CONTROLS / PERSONAL PROTECTION

No special protection or precautions have been identified for using this product under directed consumer use conditions. The following recommendations are given for production facilities and for other conditions and situations where there is increased potential for accidental, large-scale or prolonged exposure.

Hygienic Practices:	During dilution, avoid eye and skin contact. If contact occurs, flush thoroughly with water.
Engineering Controls:	It is suggested that an eyewash station be placed near the location where the concentrate is diluted.
Personal Protective Equipment:	Not normally required. If contact is likely or for prolonged or repeated contact with concentrate, eye and hand protection is recommended.

SECTION 9 -- PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, Colorless liquid	Boiling Point	Not established
Odor	Practically Odorless	Freezing Point	Not established
pH	1.4 – 1.6	Evaporation Rate (Butyl Acetate=1)	Not established
Specific Gravity (H₂O=1)	1.09	Vapor Density (Air=1)	Not established
Solubility	Water soluble	Vapor Pressure (mmHg)	Not established
VOC Content (% Wt.)	0.00% (0.000 lbs/gallon)		

SECTION 10 -- STABILITY AND REACTIVITY

Chemical Stability:	Stable.
Incompatibility:	May be slightly incompatible with aluminum and copper metals after prolonged exposure. Product IS compatible with most metals including stainless steels.
Hazardous Decomposition:	None.
Polymerization:	None.
Conditions to Avoid:	Not applicable.

SECTION 11 -- TOXICOLOGICAL INFORMATION

THIS PRODUCT DOES NOT CONTAIN ANY KNOWN OR ANTICIPATED CARCINOGENS ACCORDING TO THE CRITERIA OF THE NTP ANNUAL REPORT ON CARCINOGENS, OSHA 29 CFR 1910.1000, SUBPART Z, OR THE IARC MONOGRAPHS.

Acute Oral, Rat	LD50>5000 mg/Kg	Epidemiology	None Known
Acute Dermal, Rat	LD50>5000 mg/Kg	Teratogenicity	None Known
Primary Eye Irritation	Rabbit – Slightly Irritating	Neurotoxicity	None Known
		Dermal Sensitization	Guinea Pigs – Not a contact sensitizer

Subchronic/Chronic Toxicity: Does not contain any recognized carcinogens, mutagens or reproductive toxicants.

SECTION 12 -- ECOLOGICAL INFORMATION

Ecotoxicity:	None.
Environmental Fate:	Readily degraded. Ionic silver is degraded into inert elemental silver or insoluble silver complexes in the environment.

SECTION 13 -- DISPOSAL CONSIDERATIONS

Waste Disposal Method:	Dispose of in accordance with local, state, and federal regulations.
RCRA Classification:	Non-hazardous.

SECTION 14 -- TRANSPORT INFORMATION

DOT Classification:	Non-hazardous.
Exceptions:	None.
Description:	Not applicable.

SECTION 15 -- REGULATORY INFORMATION

TSCA:	TSCA Inventory: All components are listed. TSCA Health and Safety Reporting List: None of the components are listed. TSCA Chemical Test Rules: None of the components are listed. TSCA Section 12b: None of the components are listed. TSCA Significant New Use Rule: None of the components has a SNUR.
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CERCLA: No RQ was assigned to silver compounds. See 50FR13456 (April 4, 1985).

ARA 302/304: None of the components has a RQ or a TPQ.

SARA 311/312: None of the components are reportable.

Clean Air: None of the components are a Hazardous Air Pollutant, Class 1 Ozone Depletor, or Class 2 Ozone Depletor.

Clean Water Act: None of the components are a Hazardous Substance, Priority Pollutant, or Toxic Pollutant.

OSHA: None of the components are considered hazardous.

California Proposition 65: None of the components are listed.

SECTION 16 -- OTHER INFORMATION

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