

Citrisil™

Safety Data Sheet

Section 1 – Identification

Product Identification: Citrisil™

Product Use: Dental Water Line Treatment Product

Chemical Family: Organic Salt

Company Name: Sterisil, Inc.

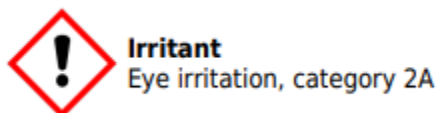
Company Address: 835 S Hwy 105, Suite D, Palmer Lake CO 80133, USA

General Information Telephone: (719) 622-7200

Emergency Telephone: (719) 622-7201 or (719) 622-7207

Section 2 – Hazard(s) Identification

Signal Word: Granular



HMIS Ratings:



Health – 1

Flammability – 1

Reactivity – 0

Personal Protection Index – E

NFPA/HMIS Definitions: (0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme). The values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

Section 3 – Composition/Information on Ingredients:

Common Name	CAS Registration Number	Weight Percent
Silver	7440-22-4	0.78%
Citric Acid	77-92-9	Trade Secret
Other Ingredients	NA	Trade Secret

Section 4 – First Aid Measures

First Aid:

Minimize contact, wash with soap and water.

Eye Protection/Contact First Aid: ANSI approved safety glasses. In case of eye contact flush with water for 15 minutes. Seek medical attention if irritation develops or persists.

Skin Protection/Contact First Aid: Wash area with soap and water. Seek medical attention if irritation develops or persists.

Inhalation First Aid: Move person to fresh air. If breathing is difficult, provide oxygen. If not breathing, give artificial respiration. Get medical attention if cough or other symptoms develop.

Section 5 – Fire Fighting Measures

Flammable Properties:

COC Flash Point: None

TCC Flash Point: None

Autoignition Temperature: None

LEL: None.

UEL: None.

Fire Fighting Procedures:

Product is not combustible. As in any fire use NIOSH/MSHA approved SCBA & full protective equipment

Extinguishing Media:

Media suitable for surrounding fire.

Section 6 – Accidental Release Measures

Spill Release Procedures:

No known hazard from spills. Clean with disposable paper towel and wash area with soap and water. If dust is present, wear dust mask to minimize exposure.

Section 7 – Handling and Storage

Storage: Store at room temperature, preferable at 18°C (65°F).

Handling: Handle tablets with Nitrile gloves.

Section 8 – Exposure Controls/Personal Protection

Exposure Guidelines:

OSHA PEL: N/A
OSHA TWA: N/A

Other Protective Equipment: None specified by manufacturer.

Work Hygienic Practices: None specified by manufacturer.

Section 9 – Physical and Chemical Properties

Appearance: White Granular Tablet (light blue trait with Citrisil Blue™ and light orange tint Citrisil Shock™)

State: Pressed into Tablet

Odor: None

pH: Water treated pH dependent on the water used.

Boiling Point: Degrades Prior to boiling.

Specific: 1.5g/cc

Melting/Freezing Point: Degrades Prior to boiling.

Vapor Pressure: N/A

Vapor Density: N/A

Solubility in Water: >99% in water

Corrosivity: None known

Polymerization: Hazardous polymerization will not occur.

Stability and Reactivity:

Stability: Stable at ambient conditions.

Incompatibility with other Materials: Strong oxidizing agents (i.e. nitric acid); strong reducing agents.

Dangerous Reactions: None when used according to label of product.

Dangerous Products of Decomposition: May yield oxides of carbon, nitrogen, and sulfur as a result of thermal (fire) decomposition.

Section 11 – Toxicological Information

Potential Health Effects:

Wash hands thoroughly after handling tablet. Avoid contact with skin and eyes. May be irritating to eyes, slightly irritating to skin, and may be slightly irritating to respiratory tract.

Once tablets dissolved and diluted in water as intended for use concentrations would not be irritating.

Carcinogenicity Information: None of the components present in this material are listed as carcinogens.

Health Hazards Acute & Chronic: Although no such observations have been made with Sterisil's antimicrobial media, users should know that long-term absorption of silver or its components may produce generalized 'Argyria' (gray skin discoloration)

The lifetime exposure standard for acquiring the non-health threatening aesthetic effect of silver bioaccumulation, Argyria is 25 grams (Federal Register, Vol. 56, No. 20 Jan. 1991, p3573). Use of the product as intended, dental patients consuming Sterisil's treated water at its highest concentration of 3 ppm, the total annual exposure to silver would be 15 micrograms. Assuming continuous annual exposure over a 70 – year life span the total exposure would be 0.001 grams of silver. The maximum lifetime exposure to silver from dental water treated with Sterisil would then be only 0.004% of the EPA established standard.

Acute Toxicological Information:

Citric Acid: Citric Acid (CA) contains an acute toxicological effect when 6730 mg of CA / kg of body mass are consumed.

Section 12 – Ecological Information

Releases of this material to air, land, or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA Title III Section 34) This product does not contain a chemical, which is listed in Section 313 at or above de minimis concentrations.

Persistence and Degradability: Readily degrades in the environment

Section 13 – Disposal Considerations

When decision is made to discard this material as supplied, it does not meet RCRA's characteristic definition of ignitability, corrosivity, or reactivity, and is not listed in 40 CFR 261.33.

Section 14 – Transport Information

Transportation Class: Not classified as a dangerous good for transport by land, sea, or air.

TDG: Not regulated.

IATA: Not regulated.

DOT (49 CFR 172.101): Not Regulated

Section 15 – Regulatory Information

United States (USA)

SARA Section 311/312 (Specific Toxic Chemical Listings):

Citric Acid: Acute toxicity.

SARA Section 313: NA

RCRA: NA

TSCA: NA

CERCLA: NA

Proposition 65 (California, USA): NA

Canada

DSL: NA

NPRI (0.1%): NA

NPRI (1%): 77-92-9 Citric Acid, anhydrous

Section 16 – Other Information

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.

Sterisil, Inc. assumes no responsibility for personal injury or property damage to users or third parties caused by the material. This document is intended as a guide providing appropriate handling guidelines for trained persons using the product. Regulatory requirements are subject to change and may differ by location. It is the user's responsibility to ensure that activities comply with Federal, State, and local laws.

Date of Preparation: 1 September 2015

Last Revision: 7 May 2018



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