

# Material Safety Data Sheet

## SECTION 1 -- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** SpectraSan 24  
**EPA Reg No:** 72977-3-85938  
**Issue Date:** 8/24/09  
**Date Revised:** 2/17/10  
**Distributed By:** BioTech Medical LLC  
7800 Whipple Ave. NW  
North Canton, OH 44720  
800.284.9857



[www.spectrasan.com](http://www.spectrasan.com)

**Emergency Number:** ChemTel, Inc. 800.255.3924 N.A. / 813.248.0585 Intl.

## SECTION 2 -- COMPOSITION / INFORMATION ON INGREDIENTS

| Components  | Exposure Limits |          |           |           |
|---|-----------------|----------|-----------|-----------|
|   | Wt%             | OSHA PEL | ACGIH TLV | NIOSH REL |
| 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)   | >95             | None     | None      | None      |
| Citric Acid (CAS No. 77-92-9)   | 4.85            | None     | None      | None      |
| Silver Ions   | 0.0030          | None     | None      | None      |

## SECTION 3 -- HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

CAUTION: Direct contact may cause slight eye irritation. Avoid contact with eyes. If irritation occurs, flush thoroughly with large amounts of water for 15 minutes.

### HMIS Rating

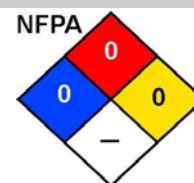
|              |   |
|--------------|---|
| Health       | 0 |
| Flammability | 0 |
| Reactivity   | 0 |

## 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. Get medical attention if irritation persists.  
**Skin Contact:** If irritation occurs, rinse with water. Get medical attention if irritation persists. Does not stain skin.  
**Inhalation:** If breathing is affected, remove victim to fresh air and call a physician  
**Ingestion:** Do not induce vomiting. If irritation occurs consult a physician.

## SECTION 5 -- FIRE FIGHTING MEASURES

**Flammability:** Not flammable; Not 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. Rinse area thoroughly with water. Large spills: Dike or dam spill. Pump to containers or soak up with inert absorbent. Prevent runoff to creeks and waterways.

## SECTION 7 -- HANDLING AND STORAGE

**Handling Precautions:** Rinse with water if any irritation occurs. Keep container tightly closed when not in use.  
**Storage Precautions:** Store in a cool, dry place. Do not contaminate food, feed, or drinking water. Keep from freezing. Keep 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:** Avoid contact with eyes, skin and clothing. If irritation occurs, flush thoroughly with water after direct contact.  
**Engineering Controls:** Use general ventilation to minimize exposure to vapor or mist. Eyewash station is suggested.  
**Personal Protective Equipment:** None required by OSHA or NIOSH; however, to prevent irritation, wear safety glasses and use gloves if in direct contact with liquid for prolonged periods.

**SECTION 9 -- PHYSICAL AND CHEMICAL PROPERTIES**

|  |                          |   |                 |
|--|--------------------------|---|-----------------|
| <b>Appearance</b> .....                          | Clear, colorless liquid  | <b>Boiling Point</b> .....                      | Not established |
| <b>Odor</b> .....                                | Practically odorless     | <b>Freezing Point</b> .....                     | Not established |
| <b>pH</b> .....                                  | 2                        | <b>Evaporation Rate (Butyl Acetate=1)</b> ..... | Not established |
| <b>Specific Gravity (H<sub>2</sub>O=1)</b> ..... | 1                        | <b>Vapor Density (Air=1)</b> .....              | Not established |
| <b>Solubility</b> .....                          | Water soluble            | <b>Vapor Pressure (mmHg)</b> .....              | Not established |
| <b>VOC Content (% Wt.)</b> .....                 | 0.00% (0.000 lbs/gallon) |   |                 |

**SECTION 10 -- STABILITY AND REACTIVITY**

|                                 |  |
|---------------------------------|--|
| <b>Chemical Stability:</b>      | Stable   |
| <b>Incompatibility:</b>         | Bases, such as bicarbonates, carbonates, hydroxides, ammonia and other amines. May be slightly incompatible with aluminum and copper metals after prolonged exposure. Product is compatible with most metals including stainless steels. |
| <b>Hazardous Decomposition:</b> | None   |
| <b>Polymerization:</b>          | None   |
| <b>Conditions to Avoid:</b>     | 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 AND OSHA 29 CFR 1910.1000, Subpart Z.

|                                     |                              |                                     |  |
|-------------------------------------|------------------------------|-------------------------------------|--|
| <b>Acute Oral, Rat</b> .....        | LD50>5000 mg/Kg              | <b>Epidemiology</b> .....           | N/A  |
| <b>Acute Dermal, Rat</b> .....      | LD50>5000 mg/Kg              | <b>Teratogenicity</b> .....         | N/A  |
| <b>Primary Eye Irritation</b> ..... | rabbit - Category IV         | <b>Neurotoxicity</b> .....          | N/A  |
| <b>Primary Eye Irritation</b> ..... | rabbit - Slightly irritating | <b>Dermal Sensitization</b> .....   | Guinea Pigs - Not a contact sensitizer   |
| <b>EPA Toxicity Rating</b> .....    | Category IV                  | <b>Subchronic/Chronic Toxicity:</b> | Does not contain any recognized carcinogens, mutagens or reproductive toxicants. |

**SECTION 12 -- ECOLOGICAL INFORMATION**

|                            |  |
|----------------------------|--|
| <b>Ecotoxicity:</b>        | None   |
| <b>Environmental Fate:</b> | Readily degraded. Ionic silver is degraded into inert elemental silver in the environment. |

**SECTION 13 -- DISPOSAL CONSIDERATIONS**

|                               |   |
|-------------------------------|---|
| <b>Waste Disposal Method:</b> | Dispose of in accordance with local, state, and federal regulations.  |
| <b>RCRA Classification:</b>   | Non-hazardous if diluted and TCLP testing confirms waste does not exhibit the characteristic of toxicity as defined by 40 CFR261.24 for silver content. |

**SECTION 14 -- TRANSPORT INFORMATION**

|                            |                |
|----------------------------|----------------|
| <b>DOT Classification:</b> | Non-hazardous  |
| <b>Exceptions:</b>         | None           |
| <b>Description:</b>        | Not applicable |

**SECTION 15 -- REGULATORY INFORMATION**

**TSCA:** Health and Safety Reporting List: None of the chemicals are on the Health & Safety Reporting List. Chemical Test Rules: None of the chemicals are under a Chemical Test Rule. Section 12b: None of the chemicals are listed under TSCA 12b. TSCA Significant New Use Rule: None of the chemicals in this material have a SNUR under TSCA.

**CERCLA:** No RQ is assigned to the generic or broad class - silver compounds. See 50FR13456 (April 4, 1985).

**ARA 302/304:** None of the chemicals in this product have an RQ or TPQ.

**SARA 311/312:** Not reportable

**Clean Air Act:** This material does not contain any hazardous air pollutants, Class 1 Ozone depleters, or Class 2 Ozone depleters.

**Clean Water Act:** None of the chemicals in this product are listed as Hazardous Substances under the CWA, Priority Pollutants under the CWA, or Toxic Pollutants under the CWA.

**OSHA:** None of the chemicals in this product are considered hazardous by OSHA.

**California Proposition 65:** No ingredients listed.

**SECTION 16 -- OTHER INFORMATION**

**ID:** #208029302  
**Issue Date (Rev):** 2/17/10

Revision Summary: This updated MSDS includes changes to Sections 1, - 5, 7 -15