

1. PRODUCT AND COMPANY IDENTIFICATION**Product Identity:** StethoSpray™**Recommended use of the chemical and restrictions on use:** Alcohol-based cleaning spray. For professional use.**Supplier:** Boehringer Laboratories, LLC
300 Thoms Dr.
Phoenixville, PA 19460
610-278-0900**Emergency Phone:****SDS Date of Preparation:** 10/26/18**2. HAZARDS IDENTIFICATION****GHS Classification:**

Physical:	Health:	Environmental:
Flammable Liquid Category 2	Eye Irritation Category 2 Specific Target Organ Toxicity – Single Exposure Category 3	Not Hazardous

GHS Label Elements:

Danger!

**Statements of Hazard**

Highly flammable liquid and vapor.
Causes serious eye irritation.
May cause drowsiness or dizziness.

Precautionary Phrases

Keep away from heat, sparks or open flames.
Avoid breathing vapors.
Wash exposed skin thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear eye protection.
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 advice or attention.
In case of fire: Use water spray, alcohol resistant foam, dry chemical, or carbon dioxide for extinction.
Store in a well-ventilated place. Keep cool.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Amount
Isopropanol (Isopropyl Alcohol)	67-63-0	70%
Water	7732-18-5	30%

4. FIRST AID MEASURES

Eye: Immediately flush eyes with plenty of water for several minutes while holding the eyelids apart. Remove contact lenses, if present and easy to do. If eye irritation persists get medical attention.

Skin: Remove contaminated clothing. Wash skin thoroughly with soap and water. If irritation or symptoms develop, get medical attention. Launder clothing before re-use.

Ingestion: Do not induce vomiting unless directed to do so by medical personnel. Rinse mouth with water and give 1-2 glasses of water to drink. Get medical attention if you feel unwell.

Inhalation: Remove victim to fresh air. Get medical attention if symptoms develop or persist.

Most Important Symptoms: Causes severe eye irritation. May cause skin irritation. May be harmful if absorbed through the skin. Inhalation of vapors or mist may cause respiratory irritation and central nervous system effects such as headache, dizziness, drowsiness, nausea and unconsciousness.

Indication of immediate medical attention/special treatment: Immediate medical attention should not be required.

5. FIRE FIGHTING MEASURES

Suitable (and Unsuitable) Extinguishing Media: Use water spray, carbon dioxide, alcohol foam or dry chemical. Water spray can be used to cool exposed containers and structures, dilute spills and disperse flammable vapors.

Specific Hazards Arising From the Chemical: This product is highly flammable and may form explosive mixtures with air. Vapors are heavier than air and will travel along surfaces to remote ignition sources and flash back. Closed containers may explode if exposed to extreme heat. May release oxides of carbon if involved in fire.

Special Protective Equipment and Precautions for Fire-Fighters: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing. Do not allow run-off from fire fighting to enter drains or water courses.

Explosion Data (sensitivity to mechanical impact or static discharge): Flammable vapors may be ignited by static spark. Electrically bond and ground containers for product transfer.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures: Evacuate spill area and keep unprotected personnel away. Remove all sources of ignition. Ventilate area with explosion proof equipment. Avoid contact with eyes, skin, and clothing. Wear appropriate protective clothing.

Methods and Materials for Containment and Cleaning Up: Contain and collect using inert absorbent materials and place in appropriate containers for disposal. Use non-sparking tools and equipment. If spill has not ignited, use water spray to disperse the vapors and protect personnel attempting to stop leak. Do not flush to sewer! Report releases as required by local, state and federal authorities.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Avoid contact with the eyes, skin and clothing. Avoid breathing vapors and mists. Wear protective clothing and equipment. Use with adequate ventilation. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Keep product away from heat, sparks, flames and all other sources of ignition. Do not permit smoking in use or storage areas. Use with non-sparking tools and explosion proof equipment. Electrically bond and ground containers for transfer.

Do not cut, drill, grind or weld on or near containers, even empty containers. Do not reuse containers. Empty containers retain product residues which can be hazardous. Follow all SDS precautions when handling empty containers.

Conditions for Safe Storage, Including Any Incompatibilities: Store in accordance with regulations for the storage of flammable liquids. Store in a dry, well-ventilated area away from heat, direct sunlight and all sources of ignition. Store away from oxidizers and other incompatible materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:

Isopropanol (Isopropyl Alcohol)	200 ppm TWA, 400 ppm STEL ACGIH TLV 400 ppm TWA OSHA PEL
Water	None Established

Engineering Controls: Use with adequate local exhaust ventilation to maintain exposures below the occupational exposure limits. Use explosion proof equipment where required.

Respiratory Protection: In operations where exposure levels are exceeded, an approved respirator with dust/mist cartridges or supplied air respirator should be used. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.

Skin Protection: Wear impervious gloves such as nitrile rubber to prevent prolonged skin contact.

Eye Protection: Chemical safety goggles are recommended.

Other: Impervious coveralls, apron and boots is required to prevent skin contact and contamination of personal clothing. A safety shower and eye wash should be available in the immediate work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: Clear, colorless liquid with an alcohol odor.

Physical State: Liquid	Odor Threshold: 43 ppm (isopropanol)
Vapor Density: 2.1 (isopropanol)	Initial Boiling Point/Range: 180°F (82°C) (isopropanol)
Solubility In Water: Soluble	Vapor Pressure: 44 mmHg @ 20°C (68°F) (isopropanol)
Relative Density: 0.86	Evaporation Rate: 2.83 (Buac=1)
Melting/Freezing Point: Not determined	pH: Not applicable
VOC Content: 860 g/L	Octanol/Water Coefficient: Not determined
Solubility: Soluble in water	Decomposition Temperature: Not determined
Viscosity: Not determined	Flammability (solid, gas): Not applicable
Flashpoint: 54°F (12°C) (isopropanol)	Autoignition Temperature: 750°F (399°C)

	(isopropanol)
Flammable Limits: LEL: 2.0% (isopropanol) UEL: 12.7% (isopropanol)	

10. STABILITY AND REACTIVITY

Reactivity: Not normally reactive.

Chemical Stability: Stable under normal storage and handling conditions.

Possibility of Hazardous Reactions: Forms explosive mixtures with trinitromethane. Reacts with barium perchlorate to form the highly explosive propyl perchlorate.

Conditions to Avoid: Keep away from heat and all sources of ignition.

Incompatible Materials: Avoid strong oxidizing agents, acids, chlorine, acetaldehyde, ethylene oxide, isocyanates, phosgene, oleum, and nitroform.

Hazardous Decomposition Products: Carbon monoxide and carbon dioxide.

11. TOXICOLOGICAL INFORMATION

HEALTH HAZARDS:

Eye: Contact may cause severe irritation with redness, tearing and pain.

Skin: May cause irritation, drying, defatting of the skin and dermatitis. The liquid may be absorbed through the skin causing effects similar to those described under inhalation and ingestion.

Ingestion: Ingestion may cause mucous membrane and gastrointestinal irritation, abdominal pain, nausea, vomiting, dizziness, drowsiness, diarrhea, unconsciousness and death.

Inhalation: Inhalation of vapors may cause mucous membrane and respiratory irritation and central nervous system depression with symptoms of headache, dizziness, drowsiness, staggering, intoxication, and unconsciousness.

Chronic: Prolonged occupational overexposure may cause dermatitis.

Sensitization: This material is not expected to cause sensitization.

Carcinogenicity: None of the components present are listed as a carcinogen or suspected carcinogen by IARC, NTP, or OSHA.

Germ Cell Mutagenicity: Isopropanol has tested positive for mutagenicity in some test systems.

Reproductive Toxicity: No data available

Numerical Measures of Toxicity:

Isopropanol: Oral Rat LD50 – 5,045 mg/kg; Inhalation Rat LC50 - 16,000 ppm/8 hour; Skin Rabbit LD50 - 12,800 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Isopropanol: 96 hr LC50 Fathead minnow (flow through) – 9,640 mg/L; 48 hr EC50 Daphnia magna - 13,299 mg/L

Persistence and Degradability: Isopropanol is readily biodegradable – 95% after 21 days.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

Other Adverse Effects: No data available.

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with local and national environmental regulations.

14. TRANSPORT INFORMATION

DOT Hazardous Materials Description:

Proper Shipping Name: Isopropyl Alcohol Solution

UN Number: UN1219

Hazard Class/Packing Group: 3, PG II

Labels Required: Flammable Liquid

IMDG Shipping Name: Isopropyl Alcohol Solution

UN Number: UN1219

Hazard Class/Packing Group: 3, PG II

Hazard Labels Required: Flammable Liquid

IATA Shipping Name: Isopropyl Alcohol Solution

UN Number: UN1219

Hazard Class/Packing Group: 3, PG II

Hazard Labels Required: Flammable Liquid

15. REGULATORY INFORMATION

CERCLA 103 Reportable Quantity: This product is not subject to CERCLA reporting requirements, however, many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

Hazard Category for Section 311/312: Refer to Section 2 for OSHA Hazard Classification.

Section 313 Toxic Chemicals: This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372): None

Section 302 Extremely Hazardous Substances (TPQ): None

INTERNATIONAL CHEMICAL INVENTORY STATUS:

Canada DSL: All the components are listed.

United States TSCA: All the components are listed.

16. OTHER INFORMATION

NFPA Rating: Health = 2 Flammability = 3 Instability = 0

HMIS Rating: Health = 2 Flammability = 3 Physical Hazard = 0

Date of current revision: 10/26/18

Revision History: New SDS

Date of previous revision: New SDS

NOTICE

This above information is believed to be correct but does not propose to be all inclusive and shall be used only as a guide. Boehringer Laboratories shall not be held liable for any damage resulting from handling or from contact with the above product. This information relates only to the product designated herein and does not relate to its use in combination with any other material or process.