

1. IDENTIFICATION**Product Name:** Patient Warming System Cleaning Solution**Product Number:** 00838-01

Date Prepared:	17-Aug-2020
Manufacturer:	O&M Halyard, Inc. 9120 Lockwood Blvd. Mechanicsville, VA 23116
Telephone: MEDICAL EMERGENCY: TRANSPORTATION EMERGENCY: INFORMATION:	Call 911 or your local Emergency Room or Poison Control Services Chemtrec 1-800-424-9300 or 1-703-527-3887 (collect calls accepted) 1-844-HALYARD

Product Use: Used as an algacide for use with the Patient Warming System.**2. HAZARDS IDENTIFICATION****GHS Classification:**

Respiratory Sensitization Category 1

GHS Labeling:

Danger!

Hazard Statements

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary Statements

P261 Avoid breathing mists, vapors, or spray.

P284 In case of inadequate ventilation wear respiratory protection.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor.

P501 Dispose of contents and container in accordance with local and national regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<i>Chemical Name</i>	<i>CAS-No. / EINECS-No</i>	<i>%</i>	<i>GHS Classification:</i>
Water	7732-18-5 / 231-791-2	>99%	Not Hazardous
Chloramine-T (sodium p-toluene sulfonchloramide, trihydrate)	127-65-1 / 204-854-7	<1%	Acute Tox 4 H302 Eye Dam 1 H318 Skin Corr 1B H314 Resp Sens 1 H334

4. FIRST AID MEASURES

Inhalation: Move to fresh air. If difficulty in breathing or other allergic symptoms develop, get immediate medical attention.

Skin contact: Wash off with soap and water. Seek medical advice if redness, swelling, itching or burning occurs.

Eye contact: Rinse immediately with plenty of water, also under the eyelids. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Obtain medical attention if irritation persists.

Ingestion: If victim is conscious, rinse mouth with a small amount of water. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Centre immediately.

Most Important symptoms and effects, both acute and delayed: May cause eye irritation. Prolonged skin contact may cause skin irritation. Chloramine-T powder causes respiratory sensitization (asthma) by inhalation. This product is a dilute solution of chloramine-T and under normal conditions of use would not be expected to present an inhalation hazard.

Indication of any immediate medical attention and special treatment

needed: If swallowed, get immediate medical attention. If allergic respiratory symptoms develop, get immediate medical attention.

5. FIRE-FIGHTING MEASURES

Suitable (and unsuitable) Extinguishing Media: Use media suitable for surrounding materials.

Specific Hazards Arising from the Chemical: None.

Hazardous Combustion Products: Under fire conditions may release oxides of carbon, nitrogen and sulfur, hydrogen chloride and chlorine compounds.

Special Protective Equipment and Precautions for Fire-fighters: Wear self-contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures: Avoid contact with eyes, skin, and clothing. Wear protective clothing as described in Section 8. Avoid breathing vapors or mists.

Environmental Precautions: Report releases as required by local and federal regulations.

Methods and Materials for Containment and Cleaning Up: Contain and collect with inert absorbent material and place in a suitable container for disposal. Comply with all federal, state and local regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Avoid contact with eyes. Avoid prolonged contact with skin. Avoid breathing vapors or mists.

Conditions for Safe Storage, including any Incompatibilities: Store in a cool, dry, well ventilated area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limit(s)

Chemical Name	Exposure limit(s)
Water	None established
Chloramine-T (sodium p-toluene sulfonchloramide, trihydrate)	None established

Appropriate Engineering Controls: No special ventilation normally required.

Individual Protection Measures, such as Personal Protective Equipment:

Respiratory Protection: No personal respiratory protective equipment normally required.

Protective Gloves: Impervious gloves recommended as good industrial hygiene practice. Avoid prolonged contact with skin.

Eye Protection: None required for normal use. Safety glasses or goggles if needed to prevent eye contact.

9. PHYSICAL AND CHEMICAL PROPERTIES	
Appearance and Odor	Clear liquid with a mild chlorine odor.
Odor Threshold:	Not applicable
Boiling point/range	212°F (100°C) (Water)
Melting point/range	Not available
Relative Density (water=1)	~1.0
Vapor pressure	Not available
Vapor density (air=1)	Not available
Solubility	Solution - completely soluble in water
pH	Not available
Partition coefficient (n-octanol/water):	Not available
Evaporation Rate (Butyl acetate=1)	Not available
Viscosity:	Not available
Volatile Organic Carbon Compounds (VOC) (g/L)	Not available
Flashpoint:	Not applicable
Flammable Limits in Air % by Volume:	LEL (Lower): Not applicable UEL (Upper): Not applicable
Autoignition temperature:	Not available
Decomposition temperature:	Not available
Flammability (solid, gas):	Not applicable

10. STABILITY AND REACTIVITY

Reactivity: Not reactive.

Chemical Stability: Stable at ambient temperature and pressure.

Possibility of Hazardous Reactions: None currently known.

Conditions to Avoid: Avoid sparks, flame and excessive heat.

Incompatible Materials: Strong oxidizing agents, acids and ammonia.

Hazardous Decomposition Products: Oxides of carbon, nitrogen and sulfur, hydrogen chloride and chlorine compounds.

11. TOXICOLOGICAL INFORMATION

Symptoms/Effects of Overexposure:

Inhalation: Inhalation of vapors or mists may cause mucous membrane and respiratory irritation. Chloramine-T powder causes respiratory sensitization (asthma) by inhalation. This product is a dilute solution of chloramine-T and under normal conditions of use would not be expected to present an inhalation hazard.

Skin contact: Prolonged skin contact may cause skin irritation.

Eye contact: May cause eye irritation.

Ingestion: Swallowing may cause gastrointestinal irritation with nausea and cramps.

Chronic toxicity: None currently known.

Carcinogenicity Data: None of the components of this product is listed as a carcinogen by IARC, NTP, US OSHA or the EU CLP Annex VI.

Reproductive Toxicity: No adverse effects on reproduction are known.

Numerical Measures of Toxicity:

Product ATE: >5000 mg/kg (oral)

Chloramine-T: Oral rat LD50 935 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity:

No data available. Concentrated chloramine-T is potentially toxic to fish and other aquatic organisms.

Persistence and Degradability: No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

Other Adverse Effects: None currently known.

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with all state, local and federal regulations.

14. TRANSPORT INFORMATION

US DOT Shipping Description: Not regulated

IATA Shipping Description (Air): Not regulated

IMDG Shipping Description (Vessel): Not regulated

15. REGULATORY INFORMATION

US Regulations

EPA Toxic Substances Control Act (TSCA): All of the components of this product are listed on the TSCA Inventory or exempted from TSCA.

SARA 302 Listed Chemicals: None.

SARA 311/312 Hazard Categories: See OSHA Hazard Classification in Section 2.

SARA 313 This Product Contains the Following Chemicals Subject to Annual Release Reporting Requirements Under the SARA Section 313 (40 CFR 372): None.

California Proposition 65: This product does not contain chemicals listed per the Safe Drinking Water and Toxic Enforcement Act of 1986.

16. OTHER INFORMATION

Date Prepared: 17-Aug-2020

GHS Classification Hazard Statements seen in Section 3 for Reference:

Acute Tox 4 Acute Toxicity Category 4

Eye Dam 1 Eye Damage Category 1

Skin Corr 1B Skin Corrosion Category 1B Resp

Sens 1 Respiratory Sensitization Category 1

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

HMIS Rating: Health 2* Fire 0 Physical Hazard 0

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