

# MATERIAL SAFETY DATA SHEET

## 1.0 PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Turbulence Cleaner & Disinfectant for Hydrotherapy Tubs

**Product Use:** Virucide

**Manufacturer:** Virox Technologies Inc.  
**Address:** 6705 Millcreek Dr. Unit 4  
Mississauga, Ontario L5N 5M4  
Phone #: (905) 813-0110

**Supplier:** The Butcher Company  
67 Forest Street  
Marlborough, MA 01752-3012  
Phone #: 800-225-9475

HEALTH	3
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	B

Emergency Telephone (24 hours): 800-228-5635

## 2.0 INFORMATION ON INGREDIENTS

Ingredients	CAS#	Wt%	OSHA-PEL	ACGIH-TLV	LD <sub>50</sub>	LC <sub>50</sub>
Hydrogen peroxide	7722-84-1	5-10	1 ppm TWA	1 ppm TWA	1518 mg/kg oral, mouse	2000 mg/m <sup>3</sup> 4 h, rat
Phosphoric acid	7664-38-2	1-5	1 mg/m <sup>3</sup> TWA	1 mg/m <sup>3</sup> TWA	1250 mg/kg oral, mouse	Not available
Arylsulfonated sodium salts	147732-60-3	0.5-1.5	Not available	Not available	Not available	Not available
1-Hydroxyethylidene-1,1-diphosphonic acid	2809-21-4	3-7	Not available	Not available	1800 mg/kg oral, rat	Not available
Dodecylbenzenesulfonic acid	27176-87-0	1-5	Not available	Not available	650 mg/kg oral, rat	Not available

## 3.0 HEALTH HAZARDS IDENTIFICATION

**Route of Entry:** Eye, Skin contact, Ingestion

### Effects of Acute Exposure:

**Eye:** Corrosive. May cause burns.

**Skin:** Corrosive. May cause burns.

**Ingestion:** Corrosive. Harmful if swallowed. May cause burns and other medical problems.

### Effects of Chronic Exposure:

**Skin:** Prolonged or repeated exposure to dilutions may cause skin drying in sensitive individuals.

**Irritancy:** May cause burns.

**Respiratory Tract Sensitization:** No data available.

**Carcinogenicity:** Non-hazardous by WHMIS/OSHA criteria.

**Teratogenicity, Reproductive Effects:** No data available.

**Mutagenicity:** No data available.

**Synergistic Materials:** None known.

## 4.0 FIRST AID MEASURES

**Eye:** Immediately flush with water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists.

**Skin:** Flush with water. Wash with soap and water. Obtain medical attention if irritation persists.

**Inhalation:** Not a normal route of exposure. If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention.

**Ingestion:** Do not induce vomiting. Rinse mouth with water, then drink one glass of water. Obtain medical attention or call a poison-control center immediately. Never give anything by mouth if victim is unconscious, is rapidly losing consciousness or is convulsing.

## 5.0 FIRE FIGHTING MEASURES

**Flammability:** Not flammable

**Flash Point (deg F/C, TCC):** None      **LEL:** Not applicable      **UEL:** Not applicable

**Hazardous Combustion Products:** May include and are not limited to oxides of carbon, oxides of sulphur, hydrogen sulphide, oxides of phosphorus, oxygen.

**Means of Extinction:** Treat for surrounding material.

**Special Fire Hazards:** Fire fighters should wear self-contained breathing apparatus.

## 6.0 ACCIDENTAL RELEASE MEASURES

**Leak and Spill Procedure:** Before attempting cleanup, refer to hazard data given above. Collect spills with appropriate absorbent material and place in suitable, covered, labelled containers. Keep away from entering sewers or waterways. Contact emergency services and supplier for advice.

## Turbulence Cleaner & Disinfectant for Hydrotherapy Tubs

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### HANDLING AND STORAGE

**Storage and Handling Requirements:** Keep out of reach of children. Avoid storage at elevated temperatures.

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### EXPOSURE CONTROLS/PERSONAL PROTECTION

**Gloves:** Natural or butyl rubber, nitrile or neoprene gloves.

**Eye Protection:** Safety goggles or glasses.

**Respiratory Protection:** Not normally required.

**Other Protective Equipment:** As required by employer code.

**Engineering Controls:** General ventilation normally adequate.

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### PHYSICAL AND CHEMICAL PROPERTIES

**Boiling Point (deg F/C):** Not available

**% Volatile (Wt %):** Not available

**Solubility in Water:** Complete

**Physical State:** Liquid

**Appearance and odour:** Clear colourless; odourless

**Specific Gravity (H<sub>2</sub>O = 1):** ~1.09

**Evaporation Rate (H<sub>2</sub>O = 1):** Not available

**pH (100%):** ~2.0

**Viscosity:** Not available

**Odor Threshold (ppm):** Not available

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### STABILITY AND REACTIVITY

**Conditions for Chemical Instability:** Stable.

**Incompatible Materials:** Oxidizers, reducers, acids, caustics.

**Conditions for Reactivity:** Do not mix with chlorine bleach.

**Hazardous Decomposition Products:** May include and are not limited to oxides of carbon, oxides of sulphur, hydrogen sulphide, oxides of phosphorus, oxygen when heated to decomposition.

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### DISPOSAL CONSIDERATIONS

Review federal, state/provincial and local government requirements prior to disposal.

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### TRANSPORTATION

**T.D.G./D.O.T. Classification:** CORROSIVE LIQUIDS, N.O.S. (Hydrogen peroxide, phosphoric acid); Class 8; UN1760, PGIII

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### REGULATORY INFORMATION

**Occupational Health and Safety Regulations:**

**WHMIS Class:** Not controlled by WHMIS – DIN 02242952, PCP 26340

**OSHA & WHMIS:** MSDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200) and Canadian WHMIS regulations (Controlled Products Regulations under the Hazardous Products Act).

**Environmental Regulatory Lists**

**SARA - Section 313 (Toxic Chemical Release Reporting) 40 CFR 372** – Hydrogen peroxide, phosphoric acid and dodecylbenzenesulfonic acid are listed.

**Toxic Substances Control Act (TSCA)** - All the ingredients are listed on the Chemical Substance Inventory.

**Canadian Domestic Substance List (DSL)** - All the ingredients are listed on the DSL.

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### PREPARATION INFORMATION

**Date:** September 1, 2001

**MSDS Prepared by:** Dell Tech Laboratories Ltd.

**Telephone:** 519-858-5021

#### Disclaimer

Information for this material safety data sheet was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this form. If user requires independent information on ingredients in this or any other material, we recommend contact with the Canadian Centre for Occupational Health and Safety (CCOHS) in Hamilton, Ontario (1-800-263-8466) or CSST in Montreal, Quebec (514-873-3990).