

# MATERIAL SAFETY DATA SHEET

## 1.0 PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Hydrox 2  
**Product Use:** Cleaner  
**Manufacturer/Supplier:** Virox Technologies Inc.  
**Address:** 2770 Coventry Road.  
Oakville, Ontario L6H 6R1  
Phone #: (905) 813-0110

### WHMIS Classifications

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	B

## 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	1-5	1 ppm TWA	1 ppm TWA	1518 mg/kg oral, mouse	2000 mg/m <sup>3</sup> 4 h, rat
Alcohols, C12-14-secondary, ethoxylated	84133-50-6	3-7	Not available	Not available	3277 mg/kg oral, rat	Not available
Arylsulfonated sodium salts	147732-60-3	5-7	Not available	Not available	Not available	Not available
Alkylphosphonic acid, potassium salt	14860-53-8	1-3	Not available	Not available	1800 mg/kg oral, rat	Not available
Dodecylbenzenesulfonic acid, salt	27177-77-1	3-7	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:** Causes irritation.

**Skin:** May cause irritation.

**Ingestion:** May cause stomach distress, nausea, vomiting.

### Effects of Chronic Exposure:

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

**Irritancy:** May cause irritation.

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

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

**Teratogenicity, Reproductive Effects:** Non-hazardous by WHMIS/OSHA criteria.

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

**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 (°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.

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**7.0 HANDLING AND STORAGE**


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

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**8.0 EXPOSURE CONTROLS/PERSONAL PROTECTION**


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**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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**9.0 PHYSICAL AND CHEMICAL PROPERTIES**


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**Boiling Point (°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):** 1.04-1.05

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

**pH (100%):** 3.0 - 4.0

**Viscosity:** Water thin

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

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**10.0 STABILITY AND REACTIVITY**


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**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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**11.0 DISPOSAL CONSIDERATIONS**


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

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**12.0 TRANSPORTATION**


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**T.D.G./D.O.T. Classification:** Not Regulated.

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**13.0 REGULATORY INFORMATION**


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**Occupational Health and Safety Regulations:**

**WHMIS Class:** Class D - Division 2B.

**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 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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**14.0 PREPARATION INFORMATION**


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**Date:** May 15, 2010

**MSDS Prepared by:** Virox Technologies Inc.

**Telephone:** (905) 813-0110

**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 (1-905-572-4400) or CSST in Montreal, Quebec (514-873-3990).