



## HLD5

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** HLD5  
**MSDS No.** 001022  
**Manufacturer / Supplier** Virox Technologies Inc., 2770 Coventry Rd., Oakville, ON, L6H 6R1, 905-813-0110  
**Emergency Contact Information** Virox Technologies Inc., 1-800-387-7578  
**Use** Chemosterilant and high level disinfectant

### 2. HAZARDS IDENTIFICATION

**Emergency Overview** Mildly irritating to eyes. Avoid contact with eyes.  
**Potential Health Effects**  
**Route of Exposure** Eye contact; skin contact; inhalation; ingestion.  
**Inhalation** None known.  
**Skin Contact** May cause mild irritation.  
**Eye Contact** Mildly irritating to eyes.  
**Ingestion** May cause stomach distress if ingested in large quantities.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration %	Other Identifiers
Hydrogen peroxide	7722-84-1	2.0	

### 4. FIRST AID MEASURES

#### First Aid Procedures

**Inhalation** Not a normal route of exposure.  
**Skin Contact** Flush with cool water. Wash with soap and water. Obtain medical attention if irritation develops or persists.  
**Eye Contact** Immediately flush the contaminated eye(s) with cool, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Remove contact lenses, if applicable, and continue washing. If irritation or pain persists, see a doctor.  
**Ingestion** Have victim rinse mouth with water. Have victim drink one or two glasses of water if able to. NEVER give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. DO NOT INDUCE VOMITING.

### 5. FIRE FIGHTING MEASURES

**Flammable Properties** Not flammable by WHMIS/OSHA criteria.  
**Suitable Extinguishing Media** Not combustible. Use extinguishing agent suitable for surrounding fire.  
**Specific Hazards Arising from the Chemical** Decomposition releases oxygen which may intensify fire.  
**Protective Equipment and Precautions for Firefighters** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

MSDS Name: HLD5  
MSDS No.: 001022  
Date of Preparation: July 2, 2014

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Use the Personal Protective Equipment recommended in Section 8 of this MSDS.
<b>Environmental Precautions</b>	Before attempting clean-up, refer to hazard data. Review federal, provincial and local government requirements prior to disposal.
<b>Methods for Containment and Clean-up</b>	Large spills or leaks: (greater than 5 gallons) prevent large spills from entering surface waterways. Diluted product can be flushed to sanitary sewer. Use a water rinse for final clean-up.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Use good industrial hygiene practices in handling this material. Avoid contact with eyes, skin and clothing. Prevent accidental contact with incompatible materials. FOR COMMERCIAL AND INDUSTRIAL USE ONLY.
<b>Storage</b>	Keep container tightly closed in a dry and well-ventilated place. Store in a closed container away from heat and direct sunlight. Avoid storage at elevated temperatures. KEEP OUT OF REACH OF CHILDREN.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guideline

Chemical Name	ACGIH		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Hydrogen Peroxide	1 ppm		1 ppm			

**Engineering Controls** General ventilation normally adequate.

### Personal Protective Equipment (PPE)

**Eye/Face Protection** Wear chemical safety goggles.

**Skin Protection** Natural or butyl rubber, nitrile or neoprene gloves.

**Respiratory Protection** Not normally required if good ventilation is maintained and exposure guidelines are not exceeded.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Liquid
<b>Appearance</b>	Clear yellow liquid.
<b>Odour</b>	Not available
<b>Odour Threshold</b>	Not available
<b>Boiling Point</b>	Not available
<b>Freezing Point</b>	Not available
<b>Relative Density (water = 1)</b>	1.028 - 1.032 at 25 °C
<b>Solubility in Water</b>	Soluble
<b>pH</b>	2.3 - 2.8
<b>Partition Coefficient, n-Octanol/Water</b>	Not available
<b>Vapour Pressure</b>	Not available
<b>Vapour Density (air = 1)</b>	Not available
<b>Evaporation Rate</b>	Not available
<b>Flash Point</b>	Not available
<b>Auto-ignition Temperature</b>	Not available
<b>Viscosity</b>	Water thin

MSDS Name: HLD5

MSDS No.: 001022

Date of Preparation: July 2, 2014

% VOC

0%\*

\* - Title 17, California Code of Regulations, Division 3, Chapter 1, Subchapter 8.5, Article 2, Consumer Productions, Sections 94508.

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable under recommended storage conditions.
<b>Conditions to Avoid</b>	Do not mix with chlorinated products. Do not mix with any other cleaning or disinfecting product.
<b>Incompatible</b>	Acids, Oxidising agents, bases, Reducing agents.
<b>Materials</b>	
<b>Hazardous</b>	Decomposition releases oxygen which may intensify fire.
<b>Decomposition</b>	
<b>Products</b>	

## 11. TOXICOLOGICAL INFORMATION

LD50 (Oral) estimated to be > 2000 mg/kg

### Effects of Short-Term (Acute) Exposure

#### **Skin Irritation/Corrosion**

May be mildly irritating to skin.

#### **Eye Irritation/Corrosion**

Mild eye irritant.

#### **Inhalation**

Non-Hazardous by WHMIS criteria.

#### **Skin Absorption**

Non-Hazardous by WHMIS criteria.

#### **Ingestion**

Oral LD50 > 2000 mg/kg like any product not designed to be ingested, this product may cause stomach distress if ingested in large quantities.

### Effects of Long-Term (Chronic) Exposure

#### **Respiratory and/or Skin Sensitization**

Skin Sensitization: not a skin sensitizer.

Respiratory Tract Sensitization: not a respiratory tract sensitizer.

#### **Carcinogenicity**

Non-hazardous by WHMIS/OSHA criteria.

#### **Teratogenicity / Embryotoxicity**

Non hazardous by WHMIS criteria.

#### **Reproductive Toxicity**

Non hazardous by WHMIS criteria.

#### **Mutagenicity**

Non hazardous by WHMIS criteria.

#### **Toxicologically Synergistic Materials**

None known.

## 12. ECOLOGICAL INFORMATION

**General Comments** This section is not required by WHMIS.

## 13. DISPOSAL CONSIDERATIONS

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

MSDS Name: HLD5  
MSDS No.: 001022  
Date of Preparation: July 2, 2014

## 14. TRANSPORT INFORMATION

### Shipping Information

Not regulated under Canadian TDG Regulations. Not regulated under US DOT Regulations.

### Other Transport Information

**Special Shipping Information** Not applicable

## 15. REGULATORY INFORMATION

### Canada

#### WHMIS Classification

WHMIS exempt. DIN 02279274

#### Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL/NDSL.

## 16. OTHER INFORMATION

**HMIS Rating** Health - 1 Flammability - 0 Physical Hazard - 0

**MSDS Prepared By** Virox Technologies Inc.

**Phone No.** (800) 387-7578

**Date of Preparation** July 2, 2014

**Date of Expiry** July 2, 2017

**Disclaimer** For an updated MSDS please contact the supplier/manufacturer listed on the first page of this document. Information contained herein with was obtained from sources considered technically accurate and reliable. While every efforts have 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 the material have been fully trained according to the requirement of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and manufacturer/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 document. The contents of this document have been prepared in accordance with the Canadian WHMIS (Controlled Products Regulations).

---

MSDS Name: HLD5  
MSDS No.: 001022  
Date of Preparation: July 2, 2014

Page 04 of 04