

# MATERIAL SAFETY DATA SHEET

## SECTION I - PRODUCT IDENTIFICATION

**Product Name:** Optim 28  
**Product Use:** Cleaner  
**WHMIS Class:** Class D - Division 2B  
**TDG Classification:** Not regulated as dangerous goods.  
**Manufacturer:** Virox Technologies Inc.  
2770 Coventry Road  
Oakville, ON L6H 6R1 CA  
Phone (905) 813-0110  
**Supplier:** SciCan Ltd.  
1440 Don Mills Road  
Toronto, ON M3B 3P9 CA  
Phone: (800) 667-7733

LEGEND HMIS		Health	/	1
Severe	4	Flammability		0
Serious	3	Physical Hazard		0
Moderate	2	Personal Protection		B
Slight	1			
Minimal	0			

## SECTION II - HAZARDOUS INGREDIENTS

<u>Ingredient(s)</u>	<u>CAS #</u>	<u>Wt%</u>	<u>ACGIH-TLV</u>	<u>LC50</u>	<u>Oral LD50</u>
Phosphonic acid, (1-hydroxyethylidene)bis-, tetrapotassium salt	14860-53-8	1 - 5	Not established	Not available	520 mg/kg rat
Hydrogen peroxide	7722-84-1	1 - 5	1 ppm - TWA	2 mg/l/4h rat	75 mg/kg rat; 2000 mg/kg mouse
1-Octanesulfonic acid, sodium salt	5324-84-5	1 - 5	Not established	Not available	5000 mg/kg rat

## SECTION III - PHYSICAL DATA

<b>Boiling Point:</b>	Not available	<b>Specific Gravity:</b>	1.15 - 1.16 (H <sub>2</sub> O = 1)
<b>Freezing Point:</b>	Not available	<b>Coefficient of Water/Oil Distribution:</b>	Not available
<b>Vapour Pressure:</b>	Not available	<b>% Volatile:</b>	Not available
<b>Vapour Density:</b>	Not available	<b>Evaporation Rate:</b>	Not available
<b>Solubility in Water:</b>	Complete	<b>pH:</b>	9 - 9.7
<b>Physical State:</b>	Liquid	<b>Viscosity:</b>	Water thin
<b>Appearance:</b>	Clear colourless Liquid	<b>Odour Threshold:</b>	Not available
<b>Odour:</b>	Odourless		

## SECTION IV - FIRE AND EXPLOSION DATA

<b>Flammability:</b>	Not flammable by WHMIS criteria.		
<b>Flash Point:</b>	> 93.3 °C (> 199.94 °F)	<b>LEL:</b>	Not applicable
<b>Hazardous Combustion Products:</b>	Decomposition releases oxygen which may intensify fire.		
<b>Autoignition Temperature:</b>	Not applicable		
<b>Explosion Data:</b>			
<b>Sensitivity to Mechanical Impact:</b>	Not applicable.		
<b>Sensitivity to Static Discharge:</b>	Not applicable.		
<b>Means of Extinction:</b>	This product is not flammable. Extinguish fire using agents suitable for surrounding fire.		
<b>Special Fire Hazards:</b>	Firefighters should wear a self-contained breathing apparatus.		

## SECTION V - REACTIVITY DATA

<b>Conditions for Chemical Instability:</b>	Stable under recommended storage conditions.
<b>Incompatible Materials:</b>	Do not mix with any other cleaning or disinfecting product.
<b>Reactivity:</b>	Do not mix with chlorinated products.
<b>Hazardous Decomposition Products:</b>	Decomposition releases oxygen which may intensify fire.

---

## SECTION VI - TOXICOLOGICAL PROPERTIES

---

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

### EFFECTS OF ACUTE EXPOSURE:

**Eye:** May cause irritation.

**Skin:** May cause irritation.

**Inhalation:** Not a normal route of exposure.

**Ingestion:** Like any product not designed to be ingested, this product may cause stomach distress if ingested in large quantities.

### EFFECTS OF CHRONIC EXPOSURE:

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

**Irritancy:** May cause irritation.

**Respiratory Tract Sensitization:** Non-hazardous by WHMIS criteria.

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

**Teratogenicity:** Non-hazardous by WHMIS criteria.

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

**Reproductive Effects:** Non-hazardous by WHMIS criteria.

**Synergistic Materials:** Not available

---

## SECTION VII - PREVENTATIVE MEASURES

---

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

**Eye Protection:** Wear safety glasses with side shields.

**Respiratory Protection:** Not normally required under normal use conditions.

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

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

**Leak and Spill Procedure:** Before attempting clean up, refer to hazard data given above. Large spills, greater than 5 gallons, may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Contact emergency services and supplier for advice.

**Waste Disposal:** Review federal, provincial, and local government requirements prior to disposal.

**Handling Requirements:** Use good industrial hygiene practices in handling this material. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

**Storage Requirements:** Keep out of reach of children. Store in a closed container away from incompatible materials. Avoid storage at elevated temperatures.

---

## SECTION VIII - FIRST AID

---

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

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

**Inhalation:** No specific first aid measures are required.

**Ingestion:** Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. If conscious, give a cupful of water or milk. Obtain medical attention.

---

## SECTION IX - PREPARATION INFORMATION

---

**Effective Date:** 15-May-2009

**Expiry Date:** 15-Mar-2012

**Prepared By:** Dell Tech Laboratories Ltd. (519) 858-5021

Information contained herein 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 according to the requirements of all applicable legislation and regulatory instruments. 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 document.