

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.
2815 Bristol Circle, Unit 4
Oakville, ON L6H 6X5 CA
Phone (905) 813-0110
Supplier: SciCan (Division of Lux & Zwingenberger Ltd.)
1440 Don Mills Road
Toronto, ON M3B 3P9 CA
Phone: (800) 667-7733

LEGEND HMIS		Health	Flammability	Physical Hazard	Personal Protection
Severe	4	/ 1	0	0	B
Serious	3				
Moderate	2				
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	1.4 mg/m3 - TWA	2000 mg/m3 rat	75 mg/kg rat
1-Octanesulfonic acid, sodium salt	5324-84-5	1 - 5	Not established	Not available	> 5000 mg/kg rat

SECTION III - PHYSICAL DATA

Boiling Point:	Not available	Specific Gravity:	1.15 - 1.16 (H2O = 1)
Freezing Point:	Not available	Coefficient of Water/Oil Distribution:	Not available
Vapour Pressure:	Not available	% Volatile:	Not available
Vapour Density:	Not available	Evaporation Rate:	Not available
Solubility in Water:	Complete	pH:	9 - 9.7
Physical State:	Liquid	Viscosity:	Water thin
Appearance:	Clear colourless liquid	Odour Threshold:	Not available
Odour:	Odourless.		

SECTION IV - FIRE AND EXPLOSION DATA

Flammability: Not flammable by WHMIS criteria.
Flash Point: None **LEL:** Not applicable **UEL:** Not applicable
Hazardous Combustion Products: May include and are not limited to: Oxides of carbon. Oxygen.
Autoignition Temperature: Not applicable
Explosion Data:
Sensitivity to Mechanical Impact: Not available
Sensitivity to Static Discharge: Not available
Means of Extinction: Treat for surrounding material.
Special Fire Hazards: Firefighters should wear a self-contained breathing apparatus.

SECTION V - REACTIVITY DATA

Conditions for Chemical Instability: Stable.
Incompatible Materials: Oxidizers. Reducing agents. Acids.
Reactivity: Do not mix with chlorine bleach.
Hazardous Decomposition Products: May include and are not limited to: Oxides of carbon. Oxygen.

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: Safety glasses.
Respiratory Protection: Not normally required
Other Protective Equipment: As required by employer code.
Engineering Controls: General ventilation normally adequate.
Leak and Spill Procedure: Before attempting cleanup, refer to hazard data given above. Flush into sewage system in accordance with local regulations.
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: 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 or two glasses of water. Obtain medical attention. Never give anything by mouth if victim is unconscious, or is convulsing.

SECTION IX - PREPARATION INFORMATION

Effective Date: 15-May-2006

Expiry Date: 15-May-2009

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.