



## MATERIAL SAFETY DATA SHEET

### SECTION 01 - MATERIAL IDENTIFICATION

MATERIAL NAME

WHMIS Classification: Class D-2B

Optico/4Optix Cleaning Formula  
Item # OCW6751

Name of manufacturer: Devonshire Ltd.  
Address: 1853 32<sup>nd</sup> Ave  
Montreal, QC H8T 3J1  
Tel : 514 631-4111 Toll Free: 1-877-631-4111 Fax: 514-631-1711

### SECTION 02 - HAZARDOUS INGREDIENTS

Ingredient	Conc.	CAS#	LD50 (species/route)	LC50 (species/route)
Isopropyl alcohol	10-30%	67-63-0	>4720mg/kg (orl-rat) (rat)	12000 ppm/8h

### SECTION 03 - HAZARD IDENTIFICATION

ROUTE OF ENTRY

SKIN: Contact, Yes ABSORPTION: N/AV  
EYES: Contact, Yes  
INGESTION: Yes  
INHALATION: Yes

#### Effects of acute exposure:

SKIN: Not a primary skin irritant after exposure of short duration. However, prolonged or repeated exposure may cause irritation, dryness, or flaking of skin. May cause inflammation. Not a skin sensitizer.  
EYES: Ocular contact may cause irritation to the eyes.  
INGESTION: Although ingestion is unlikely, liquid would irritate upper digestive tract if swallowed. Ingestion may cause headache, dizziness, fatigue.  
INHALATION: May cause respiratory tract irritation.

#### Effects of chronic exposure:

SKIN: Prolonged and repeated contact with skin can cause defatting and drying of the skin resulting in skin irritation and dermatitis.  
INHALATION: Exposure of high vapour concentrations may cause eye and respiratory tract irritation.  
MEDICAL CONDITIONS AGGRAVATED: Preexisting eye, skin and respiratory disorders may be aggravated by exposure.

### SECTION 04 - FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for at least 15 minutes, holding eyelids apart to ensure a thorough washing of entire eye. If irritation persists, get medical attention, preferably see an ophthalmologist.  
SKIN: Flush skin with large amounts of water while removing contaminated clothing. Wash skin with soap and water. Wash clothes prior to reuse. If irritation persists, get medical attention.  
INGESTION: DO NOT INDUCE VOMITING. **Get immediate medical attention.** Never give anything by mouth to an unconscious or convulsive person. Guard against aspiration into lungs. Have individual turn onto their left side. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs.  
INHALATION: Remove person to fresh air. Oxygen may be administered by a qualified person if breathing is difficult. Get medical attention if respiratory difficulties persist.

### SECTION 05 - FIRE AND EXPLOSION HAZARD

Flammability: Non flammable.

If yes, under which conditions:

Extinguishing means (procedure): Carbon dioxide, dry chemical, foam, water fog. Water fog will reduce intensity of flames. Do not enter confined fire space without adequate protective clothing and approved positive pressure self-contained breathing apparatus. Use water spray to cool fire-exposed containers and structures and to disperse vapors.

Flash point: N/AV No flashpoint when tested up to 94°C (T.O.C.)

Auto-ignition temperature: N/AV

Upper flammable limit (% vol): N/AV

Lower flammable limit (% vol): N/AV

Sensitivity to static discharge: N/AV

Unusual fire and explosion hazard: N/AV

Hazardous combustion products: Combustion will produce usual decomposition products, including carbon oxides.

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### SECTION 06 - ACCIDENTAL RELEASE MEASURES

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**In case of leak or spill:** See Sect. 3 & 8 for precautions. Eliminate all ignition sources. Isolate hazard area and restrict access. Handling equipment must be grounded. Try to work upwind from spill. Wear appropriate breathing apparatus (if applicable). Stop leak, only if it is safe to do so. Dike and contain land spills. Contain water spills by booming. Use water fog to knock down vapours. Contain run-off and prevent from entering into waterways. For large spills remove by mechanical means and place in suitable container. For small spills, or to absorb residue, use an inert absorbent material (paper, clay, sand) and remove to non-leaking suitable containers. Flush area with water to remove trace residue. For minute spills, rinse with water. Floors may be slippery after washing. Notify fire and environmental authorities for large spills.

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### SECTION 07 - STORAGE AND HANDLING

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Handling procedures and equipment: See Sect. 3 & 8 for hazards and precautions. Maintain good personal hygiene. Do not cut, drill, grind or weld on or near this container. Use adequate ventilation. Empty product containers may contain residue and label warnings must be adhered to even when container is empty. Never use pressure to empty drums. Air-dry contaminated clothing in a well-ventilated area before laundering.

Storage requirements: Store in a cool, dry, well-ventilated area away from all incompatibles. Avoid damage to containers. Keep container closed when not in use. Aluminum containers are not recommended for storage.

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### SECTION 08 - PREVENTIVE MEASURES

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Gloves (type): Rubber or neoprene gloves recommended.

Eye (type): Safety glasses or chemical safety goggles. It is common procedure to not wear contact lenses when handling chemicals.

Protective clothing: Impervious protective clothing (rubber apron and safety boots) recommended if splashing can occur.

Respiratory protection: Not required under normal conditions.

Engineering controls: Adequate ventilation.

Other: Eye bath and potable water source for washing.

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### SECTION 09 - PHYSICAL CHARACTERISTICS

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Physical state: liquid

Odor and appearance: colorless / alcohol odor

Vapor pressure: N/AV

Vapor density (air =1): > air

Evaporation rate: > water

Boiling point: 89°C

Freezing point: < -5°C

pH: 6.5

Specific gravity (water=1) 0.97

Solubility in water: complete

coefficient of water/oil dist: N/AV

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### SECTION 10 - REACTIVITY DATA

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Chemical stability: stable

If not, under what conditions:

Incompatibility with other substances: Yes

If so, which ones? Strong oxidizing agents. Acids. Aluminum at high temperatures.

Hazardous decomposition products: Carbon oxides. Formaldehyde gas.

Hazardous polymerization: Will not occur.

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**SECTION 11 - TOXICOLOGICAL DATA**

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LD50 of product (species and route): N/AV  
LC50 of product (species and route): N/AV  
CARCINOGENICITY, MUTAGENICITY, TERATOGENICITY, REPRODUCTIVE EFFECTS: None known  
Sensitizing capability of material: N/AV  
Synergistic materials: N/AV

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**SECTION 12 - ECOLOGICAL DATA**

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Biodegradable. Rapid volatilization.  
May be harmful to aquatic life. Do not allow product or runoff from fire control to enter storm or sanitary sewers, lakes, rivers, streams, or public waterways. Block off drains and ditches. Provincial regulations require and federal regulations may require that environmental and/or other agencies be notified of a spill incident. Spill area must be cleaned and restored to original condition or to satisfaction of authorities.

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**SECTION 13 - DISPOSAL CONSIDERATIONS**

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ALWAYS DISPOSE OF ACCORDING TO FEDERAL, PROVINCIAL, AND MUNICIPAL REGULATIONS IN EFFECT.  
Recycle containers to reduce pollution. Waste management priorities (depending on volumes and concentration of waste are: 1) Recycle (reprocess) 2) Energy recovery (cement kilns, thermal power generation) 3) Incineration 4) Disposal at a licenced waste disposal facility with approval of environmental authority. Do not attempt to combust waste on site.

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**SECTION 14 - TRANSPORT INFORMATION**

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Product not regulated for transport

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**SECTION 15 - REGULATORY INFORMATION**

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WHMIS Classification: Class D-2B

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**SECTION 16 - ADDITIONAL INFORMATION**

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Prepared by: Lorna Djandjikian, B.Sc.  
Date: January 12, 2002  
Revised : March 1st 2009  
Emergency TEL: (514) 636-7779 FAX: (514) 636-2371

NOTES: N/AV = not available N/AP = not applicable N/D = not determined

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