

# MATERIAL SAFETY DATA SHEET

PRODUCT: Hilco Lens Cleaning Towelette

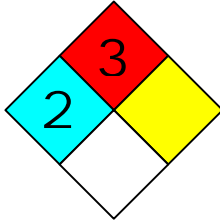
Issue Date: 26 Sept 2012

Revision Date:

Revision Number:

Ratings relate to the solution with which the towelettes are treated only, and in industrial quantities. The towelettes are consumer quantities below MSDS reporting thresholds.

## NFPA



## HMIS

Health Hazard	2
Fire Hazard	3
Reactivity	0

## PPE



## Transport Symbol

## 1. PRODUCT AND COMPANY IDENTIFICATION

**NOTE:** This MSDS relates to the solution with which the towelettes are treated, and not with the towelette as a whole. Total solution per towelette is 0.9 ml to 1.2 ml per towelette. These are consumer quantities below MSDS reporting thresholds.

**Product Name:** Leader Lens Cleaning Towelette

**Product Number(s):** Various

**Recommended Use:** Lens cleaner. Instrument care. Water based cleaner.

### Supplier Information:

Hilco  
33 West Bacon Street, Plainville, Massachusetts, 02762 USA  
Phone: 1-508-699-4406  
Fax: 1-508-699-4579  
Contact:  
Contact Phone:  
**Emergency Phone: Call INFOTRAK - 1-800-535-5053**

## 2. HAZARDS IDENTIFICATION

### Potential Health Effects

**Principal Routes of Exposure** Skin contact.

### Acute Toxicity

#### Eyes

Vapor may cause irritation.

#### Skin

May be harmful in contact with skin. May cause irritation.

#### Inhalation

May be harmful if inhaled. Avoid breathing vapors or mists. May cause irritation of respiratory tract. May cause central nervous system depression with nausea, headache, dizziness, vomiting and incoordination.

#### Ingestion

May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

### Chronic Effects

Avoid repeated exposure. Contains a known or suspected reproductive toxin.

### Aggravated Medical Conditions

Central nervous system. Preexisting eye disorders. Blood disorders. Kidney disorders. Liver disorders. Overexposure may cause female and male reproductive disorder(s). Skin disorders. Respiratory disorders.

### Interactions w/ Other Chemicals

Use of alcoholic beverages may enhance toxic effects.

### Environmental Hazards

See section 12

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## 3. INGREDIENTS

Chemical Name	CAS No.	% by Weight
Water	773-18-5	65-85
Isopropyl Alcohol	67-63-0	10-25
2-butoxyethanol	111-76-2	<10
Sodium Bicarbonate	144-55-8	<1

## 4. FIRST AID MEASURES

<b>Eye Contact</b>	Rinse Immediately with plenty of clean water, also under eyelids, for at least 15 minutes. Keep eyes wide open while rinsing. If symptoms persist, call a physician.
<b>Skin Contact</b>	Wash with soap and water. If irritation persists, or allergic reaction occurs, call a physician.
<b>Inhalation</b>	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If symptoms persist, call a physician.
<b>Ingestion</b>	DO NOT induce vomiting. Rinse mouth. Drink plenty of water. Never give anything by mouth to an unconscious person. Consult a physician.
<b>Notes to Physicians</b>	Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

<b>Flammable Properties</b>	Flammable material.
<b>Flash Point</b>	Not available
<b>Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Uniform Fire Code</b>	- Irritant: Liquid - Flammable Liquid III-B
<b>Hazardous Byproducts of Combustion</b>	Carbon oxides
<b>Explosion Data</b>	
<b>Sensitivity to Mechanical Impact</b>	Not sensitive
<b>Sensitivity to Static Discharge</b>	Yes
<b>Protective Equipment</b>	Wear self contained breathing apparatus pressure-demand, MSHA/NIOSH approved (or equivalent), and full protective gear.
<b>Special Precautions</b>	
<b>NFPA</b>	<b>Health Hazard:</b> 2 <b>Flammability:</b> 3 <b>Stability:</b> 0 <b>Physical &amp; Chemical Hazards:</b>

## 6. ACCIDENTAL RELEASE & SPILL MEASURES

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- Personal Precautions** Use personal protective equipment. Avoid contact with skin and eyes. Remove all sources of ignition.
- Containment Methods** Prevent further leakage or spillage if safe to do so.
- Clean-up Methods** Use personal protective equipment. Soak up with absorbent material. Pick up and transfer to properly labeled containers.

## 7. HANDLING AND STORAGE

- Handling** Handle in accordance with good industrial hygiene and safety practices. Avoid contact with skin and clothing. Wear personal protective equipment. Keep away from open flames, hot surfaces and sources of ignition. Keep out of reach of children.
- Storage** Keep container tightly closed. Keep away from open flames. Keep away from open flames, hot surfaces and sources of ignition. Keep out of reach of children.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Isopropyl Alcohol	+ 400 ppm STEL TWA: 200 ppm	TWA: 400 ppm TWA: 980 mg/m <sup>3</sup> (vacated) TWA: 400 ppm (vacated) TWA: 980 mg/m <sup>3</sup> (vacated) STEL: 1225 mg/m <sup>3</sup> (vacated) STEL: 500 ppm	IDLH: 2000 ppm 10% LEL TWA: 400 ppm TWA: 980 mg/m <sup>3</sup> STEL: 1225 mg/m <sup>3</sup> STEL: 500 ppm
2-butoxyethanol	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m <sup>3</sup> (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m <sup>3</sup> Skin	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m <sup>3</sup>

**Engineering Measures** Showers. Eyewash Stations. Ventilation Systems

**Personal Protective Equipment**

- Eye & Face Protection** No special equipment required
- Skin & Body Protection** Protective gloves
- Respiratory Protection** If exposure limits are exceeded or irritation is experienced. NIOSH/MSHA approved respiratory protection should be worn. Positive pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene Measures** When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Provide regular cleaning of equipment, work area and clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance** ..... White solid
- Odor** ..... Mild alcohol scent
- Odor Threshold** ..... no information available
- Physical State** ..... Solid. Solid containing liquid. Moist paper.
- pH** ..... 7
- Flash Point** ..... 54 F (solution only)
- Auto-ignition Temperature** ..... no information available
- Decomposition Temperature** ..... no information available
- Boiling Point** ..... no information available

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Melting Point .....no information available  
Flammability Limits in Air .....no information available  
Explosion Limits .....no information available  
Water Solubility .....no information available  
Solubility .....no information available  
Evaporation Rate .....no information available  
Vapor Pressure .....no information available  
Vapor Density .....no information available  
Specific Gravity (@20°C) .....no information available  
VOC Content .....no information available

## 10. STABILITY AND REACTIVITY

**Stability** Stable under recommended storage conditions  
**Incompatible Products** Strong oxidizing agents. Acids. Chlorinated compounds  
**Conditions to Avoid** Heat. Flames. Sparks  
**Hazardous Byproducts of Decomposition** Carbon Oxides  
**Hazardous Reactions** Hazardous polymerization does not occur  
**Hazardous Polymerization** Hazardous polymerization does not occur

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

**Product Information** May be harmful by inhalation, ingestion or skin absorption

Chemical Name	LD50 Oral	LD50 Dermal	LD50 Inhalation
Water	90 mL/kg (Rat)		
Isopropyl Alcohol	4396 mg/kg (Rat)	12800 mg/kg (Rat) 12870 mg/kg (Rabbit)	72.6 mg/L (Rat) 4h
2-butoxyethanol	470 mg/kg (Rat)	220 mg/kg (Rat) 2270 mg/kg (Rabbit)	2.21 mg/L (Rat) 4h 450 ppm (rat) 4h

### Chronic Toxicity

**Chronic Toxicity** Avoid repeated exposure. Contains a known or suspected reproductive toxin.

### Carcinogenicity

Chemical Name	ACGIH	IARC	NTP	OSHA
2-butoxyethanol	A3			

ACGIH: American Conference of Governmental Industrial Hygienists)

A3: Animal Carcinogen

**Target Organ Effects** Blood, Central Nervous System (CNS), Eyes, Hematopoetic System, Kidney, Liver, Respiratory System, Skin.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

The environmental impact of this product has not been fully investigated. Ecotoxicity effects of component substances follows:

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Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Isopropyl Alcohol	EC50 > 1000mg/L 72h EC50 > 1000mg/L 96h	LC50=61200 mg/L Pimephales promelas 96h LC50=94900 mg/L Pimephales promelas 96h LC50=9640 mg/L Pimephales promelas 96h	EC50 > 35390 mg/L 5 min.	EC50 = 13299 mg/L 48h
2-butoxyethanol		LC50=1490 mg/L Lepomis macrochirus 96h		LC50 1698-1940 mg/L 24h EC50 = 1720 mg/L 24h

Chemical Name	Log Pow
Isopropyl Alcohol	=0.05 25A°C
2-butoxyethanol	=0.81 25A°C

## 13. WASTE DISPOSAL

**Waste Disposal Methods**

This material as supplied is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

**Contaminated Materials**

Dispose of in accordance with local regulations.

This product contains one or more substances that are listed with the State of California as a hazardous waste:

Chemical Name	California Hazardous Waste Status
Isopropyl Alcohol	Toxic. Ignitable.

## 14. TRANSPORTATION

- DOT ..... not regulated
- TDG ..... not regulated
- MEX ..... not regulated
- ICAO ..... not regulated
- IATA ..... not regulated
- IMDG/IMO ..... not regulated
- RID ..... not regulated
- ADR ..... not regulated
- ADN ..... not regulated

## 15. REGULATORY INFORMATION

**International Inventories**

- TSC ..... Complies
- DSL ..... Does not comply
- EINECS/ELINCS ..... Does not comply
- ENCS ..... Does not comply

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- IECSC ..... Does not comply
- KECL ..... Does not comply
- PICCS ..... Does not comply
- AICS ..... Does not comply

## U.S. Federal Regulations

### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains the following chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, part 372.

Chemical Name	CAS No.	% by Weight	SARA 313 - Threshold Values %
Isopropyl Alcohol	67-63-0	10-30	1.0
2-butoxyethanol	111-76-2	<10	1.0

### SARA 313 / 312 Hazard Categories

- Acute Health Hazard Yes
- Chronic Health Hazard Yes
- Fire Hazard No
- Sudden Pressure Release Hazard No
- Reactive Hazard No

### Clean Water Act

This Product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Isopropyl Alcohol				X

### Clean Air Act, Sec. 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following substances which are listed hazardous air pollutants (HAPs) under Sec. 112 of the Clean Air Act.

Chemical Name	CAS No.	% by Weight	HAPs Data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
2-butoxyethanol	111-76-2	<10	Present (includes mono- and di-ethers of ethylene glycol and triethylene glycol, except ethylene glycol monobutyl ether [EGBE]. See 40 CFR 63.62 for redefinition of glycol ethers listed as hazardous air pollutants .	Group I		

### CERCLA

This material as supplied does not contain any substances regulated as hazardous substances under the Comprehensive Environmental response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional or state level pertaining to releases of this material.

## U.S. State Regulations

### California Proposition 65

This product does not contain any Proposition 65 chemicals.

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**U.S. State Right-to-Know Regulations**

Chemical Name	MA	NJ	PA	IL	RI
Isopropyl Alcohol	X	X	X		X
2-butoxyethanol	X	X	X	X	X

**International Regulations**

**Mexico – Grade**

Moderate risk – Grade 2

Chemical Name	Carcinogen Status	Exposure Limits
Isopropyl Alcohol		Mexico: TWA=26ppm Mexico: TWA=120 mg/m <sup>3</sup> Mexico: STEL=360 mg/m <sup>3</sup> Mexico: STEL=75ppm
2-butoxyethanol		Mexico: TWA=400ppm Mexico: TWA=980 mg/m <sup>3</sup> Mexico: STEL=1225 mg/m <sup>3</sup> Mexico: STEL=500ppm

**Canada**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR), and the MSDS contains all of the information required by the CPR.

**WHMIS Hazard Class (of solution with which the towelette is treated only)**

B2 Flammable Liquid

D2B Toxic materials



Chemical Name	National Pollutant Release Inventory
Isopropyl Alcohol	X
Supplier Trade Secret	X

**16. OTHER INFORMATION**

**Date of Issue** 30 January 2009

**Revision date:** (R5) 14 October 2011

**Revision Note:** notes regarding hazards relating to liquid towelette solution, not towelettes as a whole.

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## Hazards and Emergency Overview

Flammable material.

May be harmful or fatal if swallowed, inhaled or absorbed through skin.

Irritating to eyes.

Vapors may be irritating to eyes, nose, throat and lungs.

May cause central nervous system depression.

May cause adverse effects on the bone marrow and blood forming system

May cause adverse kidney effects.

May cause adverse liver effects

Contains a known or suspected reproductive toxin.

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### Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, release and disposal, and is not to be considered as a warranty or quality specification. The information related only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text of this MSDS.

\* \* \* END OF MATERIAL SAFETY DATA SHEET \* \* \*