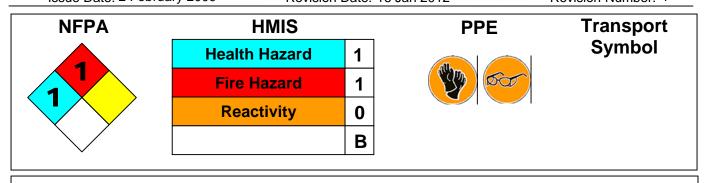
PRODUCT: Leader Lens Cleaning Liquid

Issue Date: 2 February 2009 Revision Date: 16 Jan 2012 Revision Number: 4



1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Leader Lens Cleaning Liquid

Product Number(s): 21, 24, 24P, 25, 25P, 26, 26P, 44, 61F, 81, 82, 84, 85

Recommended Use: Lens 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 Inhalation. Skin contact. Eye Contact.

Acute Toxicity

Eyes Contact may cause irritation.

Skin May cause irritation.

Inhalation Avoid breathing vapors or mists. May cause irritation of respiratory tract. May cause

drowsiness or dizziness.

Ingestion May be harmful if swallowed.

Chronic Effects No known effects based on information supplied.

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.

Environmental Hazards See section 12

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3. INGREDIENTS

Chemical Name	CAS No.	% by Weight
Water	773-18-5	85 - 95
2-butoxyethanol	111-76-2	5-15
Sodium Bicarbonate	144-55-8	<0.1
Anti-Fog	56-81-5	<1
Anti-Stat	68391-01-5	<1

4. FIRST AID MEASURES

wide open while rinsing. If symptoms persist, call a physician.

Skin Contact Wash with soap and water. If irritation persists, or allergic reaction occurs, call a physician.

Inhalation Move to fresh air.

Ingestion Rinse mouth. Drink plenty of water. Never give anything by mouth to an unconscious person.

Consult a physician immediately.

Notes to Physicians Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flammable Properties Combustible material.

Flash Point 118A°C/244.4A°F

Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

Uniform Fire Code - Combustible Liquid III-B

- Other health hazard: Target Organ Toxin -- Liquid

Hazardous Byproducts of Combustion Carbon oxides

Explosion Data

Sensitivity to Mechanical Impact

Not sensitive

Sensitivity to Static Discharge

Yes

Protective Equipment Wear self contained breathing apparatus pressure-demand, MSHA/NIOSH

approved (or equivalent), and full protective gear.

Special Precautions

NFPA Health Hazard: 1 Flammability: 1 Stability: 0 Physical & Chemical Hazards:

6. ACCIDENTAL RELEASE & SPILL MEASURES

Personal Precautions Ensure adequate ventilation. Avoid contact with skin and eyes.

Containment Methods Prevent further leakage or spillage if safe to do so.

Clean-up Methods Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal

bunder, sawdust). Pick up and transfer to properly labeled containers.

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7. HANDLING AND STORAGE

Handling Handle in accordance with good industrial hygiene and safety practices. Avoid contact with

skin and clothing. Avoid contact with skin. Keep out of reach of children.

Storage Keep container tightly closed in a cool dry place. Keep in properly labeled containers.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
2-butoxyethanol	TWA: 20 ppm	TWA: 50 ppm	IDLH: 700 ppm
		TWA: 240 mg/m ³	
		(vacated) TWA: 25 ppm	
		(vacated) TWA: 120 mg/m ³	
		Skin	

Engineering Measures Showers. Eyewash Stations. Ventilation Systems

Personal Protective Equipment

Eye & Face Protection Tight fitting safety goggles

Skin & Body Protection Lightweight protective clothing. Protective gloves.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be

required. 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 are and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Odor Mild citrus

Odor Threshold.....no information available

Physical StateLiquid

pH7

Boiling Point98A°C/208A°F

Melting Point no information available
Flammability Limits in Air no information available
Explosion Limits no information available

Water Solubility.....soluble in water

VOC Content5.09

Partition coefficient (n-octanol/water)

10. STABILITY AND REACTIVITY

Stability Stable under recommended storage conditions

Incompatible Products

None known based on information supplied

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Conditions to Avoid

Heating in air.

Hazardous Byproducts of Decomposition

Carbon Oxides

Hazardous Polymerization

Hazardous polymerization does not occur

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information

Product does not present an acute toxicity hazard based on known or supplies information.

Chemical Name	LD50 Oral	LD50 Dermal	LD50 Inhalation
Water	90 mL/kg (Rat)		
2-butoxyethanol	470 mg/kg (Rat)	220 mg/kg (Rat) 2270 mg/kg (Rabbit)	2.21 mg/L (Rat) 4h 450 ppm (rat) 4h
Sodium Bicarbonate	4220 mg/kg (Rat)		

Chronic Toxicity

Carcinogenicity

Chemical Name	ACGIH	IARC	NTP	OSHA
2-butoxyethanol	A3			

ACGIH: Americam Conference of Governmental Industrial Hygienists)

A3: Animal Carcinogen

Target Organ Effects

Blood, Central Nervous System (CNS), Eyes, Hematopoietic System, Kidney, Liver, Respiratory System, Skin.

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

			Toxicity to	Daphnia Magna (Water
Chemical Name	Toxicity to Algae	Toxicity to Fish	Microorganisms	Flea)
2-butoxyethanol		LC50=1490 mg/L Lepomis macrochirus 96h		LC50 1698-1940 mg/L 24h EC50 = 1720 mg/L 24h
Sodium Bicarbonate	EC50 > 650mg/L 120h	LC50=8250-9000 mg/L Lepomis macrochirus 96h		EC50 = 2350 mg/L 48h

Chemical Name	Log Pow	
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.

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Contaminated Materials

Dispose of in accordance with local regulations.

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
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.

			SARA 313 - Threshold Values
Chemical Name	CAS No.	% by Weight	%
2-butoxyethanol	Proprietary	5-15	1.0

SARA 313 / 312 Hazard Catagories

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

Clean Water Act

This Product does not contain any substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

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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

					Class 1 Ozone	Class 2 Ozone
Chemical Name	CAS No.	% by Weight	HAPs Data	VOC Chemicals	Depletors	Depletors
2-butoxyethanol	111-76-2	5 - 15		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.

U.S. State Right-to-Know Regulations

Chemical Name	MA	NJ	PA	IL	RI	
2-butoxyethanol	X	Х	X	X	X	

International Regulations

Mexico - Grade

No information available

Chemical Name	Carcinogen Status	Exposure Limits
2-butoxyethanol		Mexico: TWA=400ppm
		Mexico: TWA=980 mg/m ³
		Mexico: STEL=1225 mg/m ³
		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

Non-controlled D2B Toxic materials



Chemical Name	National Pollutant Release Inventory
2-butoxyethanol	X

16. OTHER INFORMATION	
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Date of Issue 2 February 2009

Revision date 16 January 2012

Revision Note

Hazards and Emergency Overview

May be harmful if swallowed. Irritating to eyes.

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 * * *