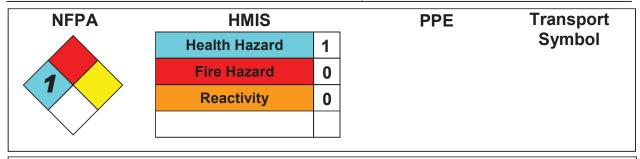
PRODUCT: Leader Lens Cleaning Liquid

Issue Date: 2 February 2009 Revision Date: 3 April 2013 Revision Number: 5



1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Leader Lens Cleaning Liquid

Product Number(s): LCS1

Recommended Use: Lens cleaner

Supplier Information:

MCR Safety

1255 Schilling Blvd. West, Collierville, TN 38017 USA

Phone: 1-901-795-5810 Toll Free: 1-800-955-6887

Contact:

Contact Phone:

Emergency Phone: Call INFOTRAK - 1-800-535-5053

2. HAZARDS IDENTIFICATION

Potential Health Effects

Acute Toxicity

Eyes Mild eye irritant.

Skin No adverse effects expected under typical use conditions. Prolonged exposure may

cause skin dryness.

InhalationNo adverse effects expected under typical use conditions.IngestionMay cause stomach or intestinal discomfort if swallowed.

Chronic Effects No known effects based on information supplied.

Aggravated Medical Conditions No medical conditions are known to be aggravated by exposure to this product.

Interactions w/ Other Chemicals None known.

Environmental Hazards See section 12

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	<0.2
Fragrance	Mixture	<0.2
Anti-Fog	56-81-5	<1
Anti-Stat	68391-01-5	<1

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4. FIRST AID MEASURES

Eye Contact Reddening may develop. 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.

Skin Contact Minimal effects expected, and if any, are reversible. If any, immediately wash with soap and water.

If irritation persists, or allergic reaction occurs, call a physician.

Inhalation Move to fresh air.

Ingestion Drink plenty of water to dilute. Do not induce vomiting. If stomach or intestinal upset occurs, consult

a physician immediately.

Notes to Physicians Treat symptomatically.

5. FIRE FIGHTING MEASURES

This product is stable, non-flammable in its liquid state, and will not burn.

Flammable Properties Not flammable.

Flash Point Not flammable

Extinguishing Media Not flammable, non-explosive.

Uniform Fire Code

Hazardous Byproducts of Combustion None expected

Explosion Data

Sensitivity to Mechanical Impact Not sensitive Sensitivity to Static Discharge Not sensitive

Protective Equipment None required

Special Precautions

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

6. ACCIDENTAL RELEASE & SPILL MEASURES

Personal Precautions Avoid contact with skin and eyes. Wash hands thoroughly after clean-up.

Containment Methods Prevent further leakage or spillage. Dam up area.

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.

7. HANDLING AND STORAGE

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

skin eyes. Keep out of reach of children.

Storage No special precautions required.

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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 None required under normal use.

Personal Protective Equipment

Respiratory Protection

Eye & Face Protection Eye protection not required under normal use conditions.

Skin & Body Protection Repeated daily application to the skin without rinsing, or continuous contact on the skin may

lead to temporary, but reversible, irritation. Rinse completely from skin after contact.

None required. Avoid breathing vapor or mist.

Hygiene Measures Generally good industrial hygiene practices. Avoid contact with eyes. Avoid breathing vapor

or mist. Wash hands thoroughly after use and before eating, drinking or smoking.

9. PHYSICAL AND CHEMICAL PROPERTIES

OdorMild citrus

Physical StateLiquid

pH7

Flammability Limits in Airno information available
Explosion Limitsno information available
Water Solubilitysoluble in water

10. STABILITY AND REACTIVITY

Stability Stable under recommended storage conditions

Incompatible Products

None known based on information supplied

Conditions to Avoid None known.

Hazardous Byproducts of Decomposition None expected

Hazardous Polymerization Hazardous polymerization does not occur

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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)	2.21 mg/L (Rat) 4h
		2270 mg/kg (Rabbit)	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

Blood, Central Nervous System (CNS), Eyes, Hematopoietic System, Kidney, Liver, **Target Organ Effects**

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.

Dispose of in accordance with local regulations.

Contaminated Materials

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14. TRANSPORTATION

15. REGULATORY INFORMATION

International Inventories

TSC	Complies
DSL	
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	%
ľ	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).

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.

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						Class 1 Ozone	Class 2 Ozone
Che	mical Name	CAS No.	% by Weight	HAPs Data	VOC Chemicals	Depletors	Depletors
2-bı	utoxyethanol	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

Ch		MA	NJ	PA	IL	RI	
2	2-butoxyethanol	X	X	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: none

This product contains the following substances:

Chemical Name	National Pollutant Release Inventory
2-butoxyethanol	X

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16. OTHER INFORMATION

Date of Issue 2 February 2009

Revision date 1 April 2013

Revision Note

Hazards and Emergency Overview

May be irritating to skin and eyes. May cause irritation if swallowed.

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. Personnel handling this material must make independent determinations of the suitability and completeness of information from all sources to assure proper use and disposal of this material and the safety and health of employees and customers.

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