MATERIAL SAFETY DATA SHEET

PRODUCT: Leader Lens Cleaning Liquid

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

1 of 7

NFPA HMIS PPE Transport Symbol

Health Hazard 1
Fire Hazard 1
Reactivity 0
B

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Leader Lens Cleaning Liquid
Product Number(s): LCS1
Recommended Use: Lens cleaner

Supplier Information:
MCR Safety
5321 E. Shelby Drive, Memphis, Tennessee, 38118 USA
Phone: 1-901-795-5810
Fax:
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

Interactions w/ Other Chemicals
Use of alcoholic beverages may enhance toxic effects.

Environmental Hazards
See section 12

1 of 7
3. INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>% by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>773-18-5</td>
<td>85 - 95</td>
</tr>
<tr>
<td>2-butoxyethanol</td>
<td>111-76-2</td>
<td>5-15</td>
</tr>
<tr>
<td>Sodium Bicarbonate</td>
<td>144-55-8</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>Anti-Fog</td>
<td>56-81-5</td>
<td>&lt;1</td>
</tr>
<tr>
<td>Anti-Stat</td>
<td>68391-01-5</td>
<td>&lt;1</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

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.
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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-butoxyethanol</td>
<td>TWA: 20 ppm</td>
<td>TWA: 50 ppm</td>
<td>IDLH: 700 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA: 240 mg/m³ (vacated)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA: 25 ppm (vacated)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA: 120 mg/m³ Skin</td>
<td></td>
</tr>
</tbody>
</table>

Engineering Measures
Shower. Eyewash Stations. Ventilation Systems

Personal Protective Equipment

<table>
<thead>
<tr>
<th>Eye &amp; Face Protection</th>
<th>Tight fitting safety goggles</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin &amp; Body Protection</td>
<td>Lightweight protective clothing. Protective gloves.</td>
</tr>
<tr>
<td>Respiratory Protection</td>
<td>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.</td>
</tr>
</tbody>
</table>

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

Appearance..............................Clear, pale pink or pale blue liquid.
Odor........................................Mild citrus
Odor Threshold............................no information available
Physical State............................Liquid
pH ........................................7
Flash Point..................................118A°C/244.4A°F
Auto-ignition Temperature..............no information available
Decomposition Temperature..............no information available
Boiling Point.............................98A°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
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..............................5.09
Partition coefficient (n-octanol/water)

10. STABILITY AND REACTIVITY

Stability
Stable under recommended storage conditions

Incompatible Products
None known based on information supplied
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.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 Oral Water</th>
<th>LD50 Dermal</th>
<th>LD50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-butoxyethanol</td>
<td>470 mg/kg (Rat)</td>
<td>220 mg/kg (Rat)</td>
<td>2.21 mg/L (Rat) 4h</td>
</tr>
<tr>
<td>Sodium Bicarbonate</td>
<td>4220 mg/kg (Rat)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Chronic Toxicity

**Carcinogenicity**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-butoxyethanol</td>
<td>A3</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

ACGIH: American Conference of Governmental Industrial Hygienists
A3: Animal Carcinogen


### 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

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

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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Log Pow</th>
<th>25A°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-butoxyethanol</td>
<td>=0.81</td>
<td></td>
</tr>
</tbody>
</table>

### 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.

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.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>% by Weight</th>
<th>SARA 313 - Threshold Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-butoxyethanol</td>
<td>Proprietary</td>
<td>5-15</td>
<td>1.0</td>
</tr>
</tbody>
</table>

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 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.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>% by Weight</th>
<th>HAPs Data</th>
<th>VOC Chemicals</th>
<th>Class 1 Ozone Depletors</th>
<th>Class 2 Ozone Depletors</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-butoxyethanol</td>
<td>111-76-2</td>
<td>5 - 15</td>
<td>Group I</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>MA</th>
<th>NJ</th>
<th>PA</th>
<th>IL</th>
<th>RI</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-butoxyethanol</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

International Regulations

Mexico – Grade
No information available

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Carcinogen Status</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-butoxyethanol</td>
<td></td>
<td>Mexico: TWA=400ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mexico: TWA=980 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mexico: STEL=1225 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mexico: STEL=500ppm</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>National Pollutant Release Inventory</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-butoxyethanol</td>
<td>X</td>
</tr>
</tbody>
</table>
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Issue Date: 2 February 2009
Revision Date: 16 Jan 2012
Revision Number: 4

Date of Issue 2 February 2009
Revision date 16 January 2012

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 * * *