



**SDS061**

**Anti-Fog Lens Cleaner**

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## SAFETY DATA SHEET

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### Identification

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LABEL IDENTIFIER: Anti-Fog Lens Cleaner

PRODUCT IDENTIFIER: P/N 13016 Fogpruf™ Solution, 4 oz. Spray Bottle  
P/N 12650 Fogpruf™ Solution, 1 quart Bottle

COMPANY IDENTIFICATION: MSA Safety Incorporated  
1000 Cranberry Woods Drive  
Cranberry Township, PA 16066  
CUSTOMER SERVICE: 1-800-MSA-2222 (8:00 a.m. – 5:00 p.m., USA local time)  
EMERGENCY: 1-800-255-3924 (CHEM-TEL, INC.)

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### Supplier Information

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**A Safety Data Sheet as furnished by the Hilco for MSA Anti-Fog Lens Cleaner is attached (7 pages)**

Hilco SDS REVISION DATE: 07/18/2014

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### Other Information

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WARNING: This is a hazardous chemical product. By following the directions and warnings provided with this product, the hazards associated with the use of this product can be greatly reduced but never entirely eliminated. MSA Safety makes no warranties, expressed or implied, with respect to this product and EXPRESSLY DISCLAIMS THE WARRANTY OF MERCHANTABILITY AND ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. Users assume all risks in handling, using or storing this product.

# Safety Data Sheet

Issue Date: 18-Jul-2006

Revision Date: 18-Jul-2014

Version 1

## 1. IDENTIFICATION

### Product Identifier

**Product Name** Leader Liquid Lens Cleaner

### Other means of identification

**SDS #** HLC-001

**Product Numbers** 21, 24, 24P, 25, 25P, 26, 26P, 44, 61F, 81, 82, 84, 85.

### Recommended use of the chemical and restrictions on use

**Recommended Use** Eyeglass lens cleaner.

### Details of the supplier of the safety data sheet

#### Supplier Address

Hilsinger Company  
33 West Bacon Street  
Plainville, MA 02762

#### Emergency Telephone Number

**Company Phone Number** 1-508-699-4406  
**Emergency Telephone (24 hr)** INFOTRAC 1-352-323-3500 (International)  
1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

**Appearance** Clear, pale pink or pale blue liquid

**Physical State** Liquid

**Odor** Mild citrus

### Classification

The information below is for the liquid in industrial quantities when used in an industrial setting. The solution as packed in a consumer quantity is considered a consumer good and when used as intended is unlikely to present a hazard

### Hazards Not Otherwise Classified (HNOC)

Causes mild skin irritation

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name                   | CAS No   | Weight-% |
|---------------------------------|----------|----------|
| Ethylene Glycol Monobutyl Ether | 111-76-2 | 5-15     |

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

## 4. FIRST-AID MEASURES

### First Aid Measures

**Eye Contact** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Skin Contact** Wash with soap and water.

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|                   |  |
|-------------------|--|
| <b>Inhalation</b> | Remove to fresh air.   |
| <b>Ingestion</b>  | Clean mouth with water and drink afterwards plenty of water. |

**Most important symptoms and effects**

|                 |                              |
|-----------------|------------------------------|
| <b>Symptoms</b> | Causes mild skin irritation. |
|-----------------|------------------------------|

**Indication of any immediate medical attention and special treatment needed**

|                           |                        |
|---------------------------|------------------------|
| <b>Notes to Physician</b> | Treat symptomatically. |
|---------------------------|------------------------|

**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** Not determined.

**Specific Hazards Arising from the Chemical**

Not determined.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

|                                  |   |
|----------------------------------|---|
| <b>Personal Precautions</b>      | Avoid contact with skin, eyes or clothing.            |
| <b>Environmental Precautions</b> | See Section 12 for additional Ecological Information. |

**Methods and material for containment and cleaning up**

|                                |   |
|--------------------------------|---|
| <b>Methods for Containment</b> | Prevent further leakage or spillage if safe to do so.   |
| <b>Methods for Clean-Up</b>    | Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labeled containers. |

**7. HANDLING AND STORAGE****Precautions for safe handling**

|                                |   |
|--------------------------------|---|
| <b>Advice on Safe Handling</b> | Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin and eyes. Keep out of the reach of children. |
|--------------------------------|---|

**Conditions for safe storage, including any incompatibilities**

|                           |  |
|---------------------------|--|
| <b>Storage Conditions</b> | Keep containers tightly closed in a dry, cool and well-ventilated place. |
|---------------------------|--|

**Incompatible Materials** None known based on information supplied.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

| Chemical Name                               | ACGIH TLV   | OSHA PEL   | NIOSH IDLH   |
|---|-------------|--|--|
| Ethylene Glycol Monobutyl Ether<br>111-76-2 | TWA: 20 ppm | TWA: 50 ppm<br>TWA: 240 mg/m <sup>3</sup><br>(vacated) TWA: 25 ppm<br>(vacated) TWA: 120 mg/m <sup>3</sup><br>S*<br>S* | IDLH: 700 ppm<br>TWA: 5 ppm<br>TWA: 24 mg/m <sup>3</sup> |

### Appropriate engineering controls

**Engineering Controls** Apply technical measures to comply with the occupational exposure limits.

### Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Avoid contact with eyes.

**Skin and Body Protection** Wear suitable protective clothing.

**Respiratory Protection** Ensure adequate ventilation, especially in confined areas.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|                       |                                      |                       |                |
|-----------------------|--------------------------------------|-----------------------|----------------|
| <b>Physical State</b> | Liquid                               | <b>Odor</b>           | Mild citrus    |
| <b>Appearance</b>     | Clear, pale pink or pale blue liquid | <b>Odor Threshold</b> | Not determined |
| <b>Color</b>          | Clear, pale pink or pale blue        |                       |                |

| <u>Property</u>                     | <u>Values</u>    | <u>Remarks • Method</u> |
|-------------------------------------|------------------|-------------------------|
| <b>pH</b>                           | 7                |                         |
| <b>Melting Point/Freezing Point</b> | Not determined   |                         |
| <b>Boiling Point/Boiling Range</b>  | 100 °C / 210 °F  |                         |
| <b>Flash Point</b>                  | Not determined   |                         |
| <b>Evaporation Rate</b>             | Not determined   |                         |
| <b>Flammability (Solid, Gas)</b>    | Not determined   |                         |
| <b>Upper Flammability Limits</b>    | Not determined   |                         |
| <b>Lower Flammability Limit</b>     | Not determined   |                         |
| <b>Vapor Pressure</b>               | Not determined   |                         |
| <b>Vapor Density</b>                | 1.3              |                         |
| <b>Specific Gravity</b>             | 1.010            |                         |
| <b>Water Solubility</b>             | Soluble in water |                         |
| <b>Solubility in other solvents</b> | Not determined   |                         |
| <b>Partition Coefficient</b>        | Not determined   |                         |
| <b>Auto-ignition Temperature</b>    | Not determined   |                         |

|                                  |                |
|----------------------------------|----------------|
| <b>Decomposition Temperature</b> | Not determined |
| <b>Kinematic Viscosity</b>       | Not determined |
| <b>Dynamic Viscosity</b>         | Not determined |
| <b>Explosive Properties</b>      | Not determined |
| <b>Oxidizing Properties</b>      | Not determined |
| <b>VOC Content</b>               | 5.09           |

## 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions.

### Chemical Stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

**Hazardous Polymerization**      Hazardous polymerization does not occur.

### Conditions to Avoid

Keep out of reach of children.

### Incompatible Materials

None known based on information supplied.

### Hazardous Decomposition Products

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

|                     |                              |
|---------------------|------------------------------|
| <b>Eye Contact</b>  | Avoid contact with eyes.     |
| <b>Skin Contact</b> | Causes mild skin irritation. |
| <b>Inhalation</b>   | Do not inhale.               |
| <b>Ingestion</b>    | Do not ingest.               |

### Component Information

| Chemical Name                               | Oral LD50            | Dermal LD50                                 | Inhalation LC50                               |
|---|----------------------|---|---|
| Ethylene Glycol Monobutyl Ether<br>111-76-2 | = 470 mg/kg ( Rat )  | = 2270 mg/kg ( Rat ) = 220 mg/kg ( Rabbit ) | = 2.21 mg/L ( Rat ) 4 h = 450 ppm ( Rat ) 4 h |
| Sodium Bicarbonate<br>144-55-8              | = 4220 mg/kg ( Rat ) | -   | -   |

### Information on physical, chemical and toxicological effects

**Symptoms**      Please see section 4 of this SDS for symptoms.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Carcinogenicity**

Group 3 IARC components are "not classifiable as human carcinogens".

| Chemical Name                               | ACGIH | IARC    | NTP | OSHA |
|---|-------|---------|-----|------|
| Ethylene Glycol Monobutyl Ether<br>111-76-2 | A3    | Group 3 |     |      |

**Legend****ACGIH (American Conference of Governmental Industrial Hygienists)**

A3 - Animal Carcinogen

**IARC (International Agency for Research on Cancer)**

Group 3 IARC components are "not classifiable as human carcinogens"

**Numerical measures of toxicity**

Not determined

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Component Information**

| Chemical Name                               | Algae/aquatic plants                    | Fish  | Toxicity to microorganisms | Crustacea   |
|---|---|---|----------------------------|---|
| Ethylene Glycol Monobutyl Ether<br>111-76-2 |   | 1490: 96 h Lepomis macrochirus mg/L LC50 static<br>2950: 96 h Lepomis macrochirus mg/L LC50 |                            | 1698 - 1940: 24 h Daphnia magna mg/L EC50<br>1000: 48 h Daphnia magna mg/L EC50 |
| Sodium Bicarbonate<br>144-55-8              | 650: 120 h Nitzschia linearis mg/L EC50 | 8250 - 9000: 96 h Lepomis macrochirus mg/L LC50 static                                      |                            | 2350: 48 h Daphnia magna mg/L EC50  |

**Persistence/Degradability**

Not determined.

**Bioaccumulation**

Not determined.

**Mobility**

| Chemical Name                               | Partition Coefficient |
|---|-----------------------|
| Ethylene Glycol Monobutyl Ether<br>111-76-2 | 0.81                  |

**Other Adverse Effects**

Not determined

**13. DISPOSAL CONSIDERATIONS****Waste Treatment Methods****Disposal of Wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**14. TRANSPORT INFORMATION****Note**

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

|                    |               |
|--------------------|---------------|
| <b><u>DOT</u></b>  | Not regulated |
| <b><u>IATA</u></b> | Not regulated |
| <b><u>IMDG</u></b> | Not regulated |

## 15. REGULATORY INFORMATION

### International Inventories

|               |                 |
|---------------|-----------------|
| <b>TSCA</b>   | Complies        |
| <b>DSL</b>    | Does not comply |
| <b>NDSL</b>   | Does not comply |
| <b>EINECS</b> | Does not comply |
| <b>ELINCS</b> | Does not comply |
| <b>ENCS</b>   | Does not comply |
| <b>IECSC</b>  | Does not comply |
| <b>KECL</b>   | Does not comply |
| <b>PICCS</b>  | Does not comply |
| <b>AICS</b>   | Does not comply |

#### **Legend:**

*TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*

*DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List*

*EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*

*ENCS - Japan Existing and New Chemical Substances*

*IECSC - China Inventory of Existing Chemical Substances*

*KECL - Korean Existing and Evaluated Chemical Substances*

*PICCS - Philippines Inventory of Chemicals and Chemical Substances*

*AICS - Australian Inventory of Chemical Substances*

### US Federal Regulations

#### **SARA 313**

| Chemical Name                              | CAS No   | Weight-% | SARA 313 - Threshold Values % |
|--|----------|----------|-------------------------------|
| Ethylene Glycol Monobutyl Ether - 111-76-2 | 111-76-2 | 5-15     | 1.0                           |

### US State Regulations

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

| Chemical Name                               | New Jersey | Massachusetts | Pennsylvania |
|---|------------|---------------|--------------|
| Ethylene Glycol Monobutyl Ether<br>111-76-2 | X          | X             | X            |

**16. OTHER INFORMATION**

|                    |                       |                     |                         |                            |
|--------------------|-----------------------|---------------------|-------------------------|----------------------------|
| <b><u>NFPA</u></b> | <b>Health Hazards</b> | <b>Flammability</b> | <b>Instability</b>      | <b>Special Hazards</b>     |
|                    | 1                     | 0                   | 0                       | Not determined             |
| <b><u>HMIS</u></b> | <b>Health Hazards</b> | <b>Flammability</b> | <b>Physical Hazards</b> | <b>Personal Protection</b> |
|                    | 1                     | 0                   | 0                       | Not determined             |

**Issue Date:** 18-Jul-2006  
**Revision Date:** 18-Jul-2014  
**Revision Note:** New format

**Disclaimer**

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**