



MSDS061

Anti-Fog Lens Cleaner

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## MATERIAL SAFETY DATA SHEET

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### Chemical Product and Company Identification

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LABEL IDENTIFIER: Anti-Fog Lens Cleaner

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

COMPANY IDENTIFICATION: MINE SAFETY APPLIANCES COMPANY  
P.O. Box 439  
Pittsburgh, PA 15230  
CUSTOMER SERVICE: 1-800-MSA-2222 (8:30 a.m. – 5:00 p.m., USA local time)  
EMERGENCY: 1-800-255-3924 (CHEM-TEL, INC.)

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### Vendor Information

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**A Material Safety Data Sheet as furnished by Hilco for MSA Anti-Fog Lens Cleaner is attached (8 Pages).**

Hilco MSDS REVISION DATE: 3/4/2009

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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. Mine Safety Appliances Company 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.



# MATERIAL SAFETY DATA SHEET

**PRODUCT: MSA Lens Cleaning Liquid with Alcohol**

Issue Date: 4 March 2009

Revision Date:

Revision Number:

<p><b>NFPA</b></p> 	<p><b>HMIS</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #0070C0; color: white;">Health Hazard</td> <td style="text-align: center;">2</td> </tr> <tr> <td style="background-color: #FF0000; color: white;">Fire Hazard</td> <td style="text-align: center;">1</td> </tr> <tr> <td style="background-color: #FF8C00; color: white;">Reactivity</td> <td style="text-align: center;">0</td> </tr> <tr> <td style="background-color: #FFFFFF;"> </td> <td> </td> </tr> </table>	Health Hazard	2	Fire Hazard	1	Reactivity	0			<p><b>PPE</b></p> 	<p><b>Transport Symbol</b></p>
Health Hazard	2										
Fire Hazard	1										
Reactivity	0										

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** MSA Lens Cleaning Liquid with Alcohol  
**Product Number(s):** 35-MSA

**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.

**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	60 - 85
Isopropyl Alcohol	67-63-0	10 - 30
Supplier Trade Secret	Proprietary	5-10
Supplier Trade Secret	Proprietary	<0.1
Sodium Bicarbonate	144-55-8	<0.1
Anti-Fog	56-81-5	<1
Anti-Stat	68391-01-5	<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
<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 immediately.
<b>Notes to Physicians</b>	Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

<b>Flammable Properties</b>	Combustible material.
<b>Flash Point</b>	No information available
<b>Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Uniform Fire Code</b>	- Combustible Liquid III-B - Other health hazard: Target Organ Toxin -- Liquid
<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> 1 <b>Stability:</b> 0 <b>Physical &amp; Chemical Hazards:</b>

## 6. ACCIDENTAL RELEASE & SPILL MEASURES

<b>Personal Precautions</b>	Ensure adequate ventilation. Avoid contact with skin and eyes. Remove all sources of ignition
<b>Containment Methods</b>	Prevent further leakage or spillage if safe to do so.

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**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, eyes and clothing. Keep out of reach of children. Keep away from open flame and other sources of ignition.

**Storage**

Keep container tightly closed in a cool dry place. Keep in properly labeled containers. Keep away from open flame and other sources of ignition.

### 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
Supplier Trade Secret	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

**Engineering Measures**

Showers. Eyewash Stations. Ventilation Systems

**Personal Protective Equipment**

- Eye & Face Protection**
- Skin & Body Protection**
- Respiratory Protection**

Tight fitting safety goggles  
Lightweight protective clothing. Protective gloves.  
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 area and clothing.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance** .....Clear, pale blue liquid.
- Odor** .....Mild alcohol scent
- Odor Threshold** .....no information available
- Physical State** .....Liquid
- pH** .....7
- Flash Point** .....no information available
- Auto-ignition Temperature** .....no information available
- Decomposition Temperature** .....no information available
- Boiling Point** .....no information available
- Melting Point** .....no information available
- Flammability Limits in Air** .....no information available
- Explosion Limits** .....no information available
- Water Solubility** .....soluble in water

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**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  
**Partition coefficient (n-octanol/water)**

### 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 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)		
Isopropyl Alcohol	4396 mg/kg (Rat)	12800 mg/kg (Rat) 12870 mg/kg (Rabbit)	72.6 mg/L (Rat) 4h
Supplier Trade Secret	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
Supplier Trade Secret	A3			

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

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

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### 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

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

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
Supplier Trade Secret		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
Isopropyl Alcohol	=0.05 25A°C
Supplier Trade Secret	=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

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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.

Chemical Name	CAS No.	% by Weight	SARA 313 - Threshold Values
Isopropyl Alcohol	67-63-0	10 - 30	1.0
Supplier Trade Secret	Proprietary	5-10	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
Supplier Trade Secret	Proprietary	5 - 10		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



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**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
Isopropyl Alcohol	X	X	X		X
Supplier Trade Secret	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
Supplier Trade Secret		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**

Non-controlled

D1B Toxic materials



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

**16. OTHER INFORMATION**

**Date of Issue** 4 March 2009

**Revision date**

**Revision Note**



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## Hazards and Emergency Overview

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

Irritating to eyes.

May cause central nervous system depression.

### 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 \* \* \*