

Issue Date 10-Dec-2013

Revision Date: 15-Dec-2014

Version 1.1

1. IDENTIFICATION

Product Identifier

Product Name Glass Cleaner CMS #1

Other Means of Identification

Product Code 903900

Recommended use of the Chemical and Restrictions on Use

Recommended Use Glass cleaner concentrate. For industrial use.

Details of the Supplier of the Safety Data Sheet

Midlab, Inc.
140 Private Brand Way
Athens, TN 37303

Emergency Telephone Number

Company Phone Number Phone: 1-423-337-3180
Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Blue

Physical State Liquid

Odor None

Classification

Serious eye damage/eye irritation	Category 2 Sub-category A
Flammable Liquids	Category 3

Signal Word

Warning

Hazard Statements

Causes serious eye irritation.
Flammable liquid and vapor.



Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling.
Keep container tightly closed and away from heat/sparks/open flames/hot surfaces. — No smoking.
Ground/bond container and receiving equipment, taking precautionary measures against static discharge.
Use only non-sparking tools and explosion-proof equipment.
Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
IN CASE OF FIRE: Use CO₂, dry chemical, or foam for extinction.

Precautionary Statements - Storage

Store in a well-ventilated place. Keep cool.

Precautionary Statements - Disposal

Dispose of contents/container in accordance with local, regional, or national regulations.

Other Hazards

None known.

Unknown Acute Toxicity

None known.

Product AT USE DILUTION**GHS Classification: Not classified.****Signal Word: No signal word.****Hazard Statements: No known significant effects or critical hazards.****Prevention: Wash thoroughly after handling.****Response: Get medical attention if symptoms appear.****Disposal: No other specific measures identified.****Other Hazards: None known.****3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS No	Weight-%
Water	7732-18-5	60-100
Isopropyl Alcohol	67-63-0	10-30
Ethylene Glycol n-Butyl Ether	111-76-2	10-30
Alkyl Polyglycoside Surfactants	68515-73-1/ 110615-47-9	3-7
Alkyl Sulfate	68479-94-4	3-7
Tetrasodium EDTA	64-02-8	1-5

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.

Product AT USE DILUTION**No hazardous ingredients in reportable quantities are present in the product.****4. FIRST-AID MEASURES****First Aid Measures**

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists: Get medical advice/attention.
Skin Contact	May be irritating to skin. Rinse with soap and water. Get medical advice/attention if rash or irritation persists.
Inhalation	If breathing becomes difficult, remove victim to fresh air. If discomfort persists, get medical advice/attention.
Ingestion	Immediately drink plenty of water. If any discomfort persists, get medical attention.

Most Important Symptoms and Effects

Symptoms	Prolonged contact may cause painful stinging or burning of eyes and lids, watering of eye, and irritation. Prolonged or repeated skin contact may cause irritation.
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Indication of Any Immediate Medical Attention and Special Treatment Needed

Notes to Physician	Treat symptomatically.
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Product AT USE DILUTION**Eye Contact: May cause eye irritation. Rinse with water for a few minutes.****Skin Contact: No known effect. Rinse with water for a few minutes.****Inhalation: No special measures required. Treat symptomatically.****Ingestion: Get medical attention if symptoms occur.**

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water spray (fog). Carbon dioxide (CO2). Dry chemical. Alcohol resistant foam.

Unsuitable Extinguishing Media

Not determined.

Specific Hazards Arising from the Chemical

Flammable.

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

Personal Precautions Use personal protective equipment as required.

Environmental Precautions Avoid release to the environment.

Methods and Material for Containment and Cleaning Up

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

Methods for Clean-Up Collect spillage. Collect in a clean, dry waste container for disposal. After cleaning, flush away traces with water.

Product AT USE DILUTION

Personal Precautions: Use personal protective equipment as required.

Environmental Precautions: Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.

Methods for Clean Up: Use a water rinse for a final clean-up.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Advice on Safe Handling Wash thoroughly after handling. Use personal protection recommended in Section 8. Ground/bond container and receiving equipment. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Use spark-proof tools and explosion-proof equipment. Take precautionary measures against static discharges. Avoid contact with eyes. Observe good industrial hygiene practices.

Conditions for Safe Storage, Including Any Incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep from freezing. Keep out of the reach of children.

Incompatible Materials None known.

Product AT USE DILUTION

Handling and Storage: Wash thoroughly after handling. Keep out of reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
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Isopropyl Alcohol 67-63-0	STEL: 400 ppm TWA: 200 ppm	TWA: 400 ppm TWA: 980 mg/m ³ (vacated) TWA: 400 ppm (vacated) TWA: 980 mg/m ³ (vacated) STEL: 500 ppm (vacated) STEL: 1225 mg/m ³	IDLH: 2000 ppm TWA: 400 ppm TWA: 980 mg/m ³ STEL: 500 ppm STEL: 1225 mg/m ³
Ethylene Glycol n-Butyl Ether 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m ³ (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m ³ (vacated) S* S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m ³

Appropriate Engineering Controls

Engineering Controls Ventilation systems.

Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection No protective equipment is needed under normal use conditions.

Skin and Body Protection None required under normal use.

Respiratory Protection No protective equipment is needed under normal use conditions.

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

Product AT USE DILUTION

Engineering Controls: Good general room ventilation should be adequate.
Eye Protection: No protective equipment needed under normal use conditions.
Skin and Body Protection: No protective equipment needed under normal use conditions.
Respiratory Protection: No protective equipment is needed under normal use conditions.
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

Physical State	Liquid	Odor	None
Appearance	Clear	Odor Threshold	Not determined
Color	Blue		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	11.0-11.5	
Melting Point/Freezing Point	~ 0 °C / ~32 °F	
Boiling Point/Boiling Range	32 °C / 89.6 °F	
Flash Point	Not determined	Tag Open Cup
Evaporation Rate	Not determined	
Flammability (Solid, Gas)	Not determined	
Upper Flammability Limits	Not determined	
Lower Flammability Limit	Not determined	
Vapor Pressure	Not determined	
Vapor Density	Not determined	
Specific Gravity	1.00	
Water Solubility	Completely soluble	@ 25 °C (77 °F)
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	
Auto-ignition Temperature	Not determined	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	
Dynamic Viscosity	Not determined	
Explosive Properties	Not determined	
Oxidizing Properties	Not determined	

Product AT USE DILUTION

Physical State: Liquid
 Color: Light blue
 Odor: None
 pH: 10.0-10.5

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.

Conditions to Avoid

Keep out of reach of children. Keep away from heat, flames, and sparks. Keep from freezing.

Incompatible Materials

Avoid strong acids, alkalis, and oxidizing agents.

Hazardous Decomposition Products

Thermal decomposition may produce carbon monoxide and other unidentified organic compounds.

11. TOXICOLOGICAL INFORMATION**Information on Likely Routes of Exposure****Product Information**

Eye Contact	Causes eye irritation.
Skin Contact	Prolonged contact may cause redness and irritation.
Inhalation	Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
Ingestion	Do not taste or swallow.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Isopropyl Alcohol 67-63-0	= 4396mg/kg (Rat)	= 12800mg/kg (Rat) = 12870 mg/kg (Rabbit)	= 72.6mg/L (Rat) 4 h
Ethylene Glycol n-Butyl Ether 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
Alkyl Polyglycoside Surfactants 68515-73-1/ 110615-47-9	> 5000 mg/kg (Rat)	-	-
Tetrasodium EDTA 64-02-8	= 10 g/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 Not classifiable as a human carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Isopropyl Alcohol 67-63-0		Group 3		X

Ethylene Glycol n-Butyl Ether 111-76-2	A3	Group 3		
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Legend

CGIH (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"
OSHA (Occupational Safety and Health Administration of the US Department of Labor)
 X - Present

Numerical Measures of Toxicity

Not determined

Unknown Acute Toxicity

None known.

Product AT USE DILUTION
No specific data available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic life with long lasting effects.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Isopropyl Alcohol 67-63-0	1000: 96 h Desmodesmus subspicatus mg/L EC50 1000: 72 h Desmodesmus subspicatus mg/L EC50	9640: 96 h Pimephales promelas mg/L LC50 flow- through 11130: 96 h Pimephales promelas mg/L LC50 static 1400000: 96 h Lepomis macrochirus µg/L LC50	-	13299: 48 h Daphnia magna mg/L EC50
Ethylene Glycol n-Butyl Ether 111-76-2	-	1490: 96 h Lepomis macrochirus mg/L LC50 static 2950: 96 h Lepomis macrochirus mg/L LC50	-	1698 - 1940: 24 h Daphnia magna mg/L EC50 1000: 48 h Daphnia magna mg/L EC50
Tetrasodium EDTA 64-02-8	1.01: 72 h Desmodesmus subspicatus mg/L EC50	41: 96 h Lepomis macrochirus mg/L LC50 static 59.8: 96 h Pimephales promelas mg/L LC50 static	-	610: 24 h Daphnia magna mg/L EC50

Persistence/Degradability

Not determined

Bioaccumulation

Not determined

Mobility

Chemical Name	Partition Coefficient
Isopropyl Alcohol 67-63-0	0.05
Ethylene Glycol n-Butyl Ether 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.

California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Isopropyl Alcohol 67-63-0	Toxic Ignitable

14. TRANSPORT INFORMATION

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

DOT Not regulated when shipped in containers less than 119 gallons

IATA

IMDG
Marine Pollutant This material may meet the definition of a marine pollutant

Product AT USE DILUTION
Not intended for transport.

15. REGULATORY INFORMATION

International Inventories
Not determined

US Federal Regulations

SARA 311/312 Hazard Categories

Acute Health Hazard Yes

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains the following chemical 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	Weight-%	SARA 313 - Threshold Values %
Ethylene Glycol n-Butyl Ether	111-76-2	3-7	1.0

US State Regulations

U.S. State Right-to-Know Regulations

Chemical Name	State List
Isopropyl Alcohol 67-63-0	MA, NJ, PA
Ethylene Glycol n-Butyl Ether 111-76-2	MA, NJ, PA

- AZ – Arizona Ambient Air Quality Guidelines
- CT – Connecticut Hazardous Air Pollutants
- CA – California Director’s List of Hazardous Substances
- CAP65 – California Prop 65
- FL – Florida Substances List
- ID – Idaho Non-Carcinogen Toxic Air Pollutants

- IL – Illinois Toxic Air Contaminate- Carcinogenic
- MA – Massachusetts Right to Know List
- MN – Minnesota Hazardous Substances List
- NJ – New Jersey Right to Know List
- PA – Pennsylvania Right to Know List
- RI – Rhode Island Hazardous Substances List

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards	Flammability	Instability	Special Hazards
	Not determined	Not determined	Not determined	Not determined
<u>HMS</u>	Health Hazards	Flammability	Physical Hazards	Personal Protection
	2	2	0	Not determined

Product AT USE DILUTION

Health Hazard: 1
 Flammability: 0
 Physical Hazards: 0
 Personal Protection: Not determined

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Revision Date: 15-Dec-2014
Revision Note Added At Use Dilution Information Version 1.1

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.

Keep Out of Reach of Children. For Industrial and Institutional Use Only.

*Denotes changes from last version.

End of Safety Data Sheet