



Safety Data Sheet

I. PRODUCT AND COMPANY IDENTIFICATION

Product Name: MAG 1 ALL PURPOSE GLASS CLEANER
Product Code: MG720419
Emergency Phone: CHEMTREC: (800) 424-9300
International: +011(703) 527-3887
Poison Control Center: (800) 222-1222
Company: Warren Distribution, Inc.
 727 S. 13th St.
 Omaha, NE 68102
Information Phone: (800) 825-1235 (402) 341-9397

II. HAZARDS IDENTIFICATION

Routes of Entry: None known.
Chemical Interactions: No chemical interaction known to affect toxicity.
Conditions Aggravated by Exposure: Respiratory disease including asthma and bronchitis, Eye disease, Skin disease including eczema and sensitization, Liver disease, Kidney disease

Acute Health Effects:

Inhalation Irritation: Can cause severe respiratory irritation, dizziness, weakness, fatigue, nausea, headache and possible unconsciousness. This product is an asphyxiant gas that can cause unconsciousness or death if Oxygen levels are sufficiently reduced.
Skin Contact: Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
Skin Absorption: Harmful if absorbed through the skin. May cause severe irritation and systemic damage.
Eye Contact: Contact with the eyes may cause moderate to severe eye injury. Eye contact may result in tearing and reddening, but not likely to permanently injure eye tissue. Temporary vision impairment (cloudy or blurred vision) is possible.
Ingestion Irritation: May be harmful or fatal if swallowed. Excessive exposure may cause central nervous system effects, cardiopulmonary effects (metabolic acidosis), kidney failure, or death.

Chronic Health Effects:

Carcinogenicity: Not a carcinogen according to NTP, IARC, or OSHA.
Reproductive Toxicity: No data available to indicate product or any components present at greater than 0.1% may cause birth defects. Possible reproductive hazard.
Mutagenicity: No data available to indicate product or any components present at greater than 0.1% is mutagenic or genotoxic.

HMIS Ratings:

Health: 3
 Fire: 4
 Reactivity: 0
 PPE: B

NFPA Ratings:

Health: 3
 Fire: 4
 Reactivity: 0

KEY: 0 - Least 1 - Slight 2 - Moderate 3 - High 4 - Extreme



Safety Data Sheet

III. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	%	CAS #	OSHA Exposure Limits
Isopropanol	1 - 5	67-63-0	400 ppm TWA; 980 mg/m3 TWA
Butane	1 - 5	106-97-8	No PEL
Ethylene glycol mono-n-butyl ether	1 - 5	111-76-2	50 ppm TWA; 240 mg/m3 TWA prevent or reduce skin absorption
Propane	0.1 - 1	74-98-6	1000 ppm TWA; 1800 mg/m3 TWA

Components not listed are not physical or health hazards as defined in 29 CFR 1910.1200 (Hazard Communication Standard).

IV. FIRST-AID MEASURES

Inhalation:	Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen and get medical attention immediately.
Eyes:	Immediately flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention and monitor the eye daily as advised by your physician.
Skin Contact:	Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.
Ingestion:	If swallowed, have a trained medical professional induce vomiting immediately. Never give anything by mouth to an unconscious person. Contains a highly toxic substance that may be fatal if swallowed. Seek medical help immediately and contact a poison information service. Drink two glasses of water or milk to dilute.
Notes to Doctor:	No additional first aid information available.

V. FIRE FIGHTING MEASURES

Flammability	Extremely Flammable
Summary:	
Extinguishing Media:	Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water spray or fog may also be effective for extinguishing if swept across the base of the fire. Water can also be used to absorb heat and keep exposed material from being damaged by fire.
Fire and/or Explosion Hazards:	Vapors may be ignited by heat, sparks, flames or other sources of ignition at or above the low flash point giving rise to a Class B fire. Vapors are heavier than air and may travel to a source of ignition and flash back
Fire Fighting Methods and Protection:	Do not enter fire area without proper protection including self-contained toxic breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface. Use water spray/fog for cooling.
Hazardous Combustion Products:	Carbon dioxide, Carbon monoxide
Autoignition Temperature:	No data.



Safety Data Sheet

VI. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment: Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this MSDS. Personal protective equipment needs must be evaluated based on the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits. Evaporation of volatile substances can lead to the displacement of air creating an environment that can cause asphyxiation.

Methods for Clean-up: No special spill clean up considerations. Collect and discard in regular trash. Do not flush to sewer.

VII. HANDLING AND STORAGE

Handling Precautions: Toxic or severely irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Empty containers may retain product residues/vapors. Use proper bonding and grounding during bulk product transfer. Use spark-proof tools and explosion-proof equipment "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous.

Storage Conditions: Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed. Do not expose to extreme temperatures or flames.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure. Explosion proof exhaust ventilation should be used. Engineering controls must be designed to control vapor concentrations to below levels published in 29 CFR 1910.1000. Engineering controls must be designed to meet the OSHA chemical specific standard in 29 CFR 1910.

Respiratory Protection: Respiratory protection will be required when handling this product. Use respirators only if ventilation cannot be used to eliminate symptoms or reduce the exposure to below acceptable levels. Wear a NIOSH approved respirator if any exposure is possible. Follow a respiratory protection program that meets 29 CFR 1910.134 and ANSI Z88.2 requirements whenever work place conditions warrant the use of a respirator.

Respirator Type(s): None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection.

Eye Protection: Wear chemically resistant safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Do not wear contact lenses. Have an eye wash station available.

Skin Protection: Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Gloves: No information available.

Control Parameters:

Chemical Name	ACGIH TLV-TWA	ACGIH STEL	IDLH	OSHA STEL
Isopropanol	200 ppm	400 ppm	2000 ppm	500 ppm STEL; 1225 mg/m3 STEL
Butane	1000 ppm TWA (listed)	No STEL	No IDLH	No STEL



Safety Data Sheet

Ethylene glycol mono-n-butyl ether	under Aliphatic hydrocarbon gases: Alkane C1- 4)	20 ppm	No STL	700 ppm	No STEL
Propane	under Aliphatic hydrocarbon gases: Alkane C1- 4)	1000 ppm	No STL	2100	No STEL
		TWA (listed		ppm	
		under		IDLH	
		Aliphatic		(10%	
		hydrocarbon		LEL)	
		gases:			
		Alkane C1- 4)			

IX. PHYSICAL AND CHEMICAL PROPERTIES

Odor:	No data
Solubility in Water:	Not determined
Evaporation Rate:	No data.
Vapor Pressure:	No data.
Boiling Point (°C):	No data.
Specific Gravity:	0.87
Density:	7.26
Flash Point Method:	No data.
Upper Flammability Limit, % in air:	Unknown
Lower Flammability Limit, % in air:	Unknown

X. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	Sparks, open flame, other ignition sources, and elevated temperatures. Elevated temperatures
Materials to Avoid:	Oxidizing materials
Hazardous Polymerization:	Will not occur.

XI. TOXICOLOGICAL INFORMATION

Acute Toxicity:

Ingestion:	Highly toxic if swallowed. May cause target organ failure and/or death even at a low dose.
Inhalation:	Highly toxic! Can cause systemic damage (see "Target Organs"). Respiratory failure is possible at high doses.
Absorption:	Harmful if absorbed through the skin. May cause severe irritation and systemic damage.
Eyes (Draize score):	This material is likely to be non-irritating to eyes based on animal data.
Skin (Draize score):	Likely to be non-irritating to skin based on animal data.
Sensitization:	No data.

Component Toxicology Data (NIOSH):

Chemical Name	CAS #	LD ₅₀ /LC ₅₀
Isopropyl alcohol	67-63-0	Inhalation LC50 Rat 72.6 mg/L 4 h; Oral
MAG 1 ALL PURPOSE GLASS CLEANER		



Safety Data Sheet

Butane	106-97-8	LD50 Rat 4396 mg/kg; Dermal LD50 Rat 12800 mg/kg; Dermal LD50 Rabbit 12870 mg/kg
Ethanol, 2-butoxy-	111-76-2	Inhalation LC50 Rat 658 mg/L 4 h Inhalation LC50 Rat 2.21 mg/L 4 h; Inhalation LC50 Rat 450 ppm 4 h; Oral LD50 Rat 470 mg/kg; Dermal LD50 Rat 2270 mg/kg; Dermal LD50 Rabbit 220 mg/kg
Propane	74-98-6	Inhalation LC50 Rat 658 mg/L 4 h

XII. ECOLOGICAL INFORMATION

Overview:	This material is not expected to be harmful to the ecology.
Persistence:	No data.
Bioconcentration:	Bioconcentration is not expected to occur.
Degradability:	No data.

Toxicity to Aquatic Invertebrates:	CAS #	Results
Isopropyl alcohol	67-63-0	48 Hr EC50 Daphnia magna: 13299 mg/L
2-Butoxyethanol	111-76-2	24 Hr EC50 Daphnia magna: 1698 - 1940 mg/L; 48 Hr EC50 Daphnia magna: >1000 mg/L
Isopropyl alcohol	67-63-0	96 Hr EC50 Desmodesmus subspicatus: >1000 mg/L; 72 Hr EC50 Desmodesmus subspicatus: >1000 mg/L

Toxicity to Fish:	CAS #	Results
Isopropyl alcohol	67-63-0	96 Hr LC50 Pimephales promelas: 9640 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 11130 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: >1400000 µg/L
2-Butoxyethanol	111-76-2	96 Hr LC50 Lepomis macrochirus: 1490 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 2950 mg/L

XIII. DISPOSAL CONSIDERATIONS

Disposal Methods:	Dispose of in a landfill. Disposal is not likely to be regulated.
Waste Disposal Code(s):	D001

XIV. TRANSPORTATION INFORMATION

D.O.T.	Proper Shipping Name:	CONSUMER COMMODITY
	Hazard Class:	ORM-D
IMO/IMDG	Proper Shipping Name:	AEROSOLS
	UN Number:	UN1950
	Hazard Class:	2.1
	Exception:	LTD QTY
	EMS#:	F-D,S-U
IATA/ICAO	Proper Shipping Name:	AEROSOLS
	UN Number:	UN1950
	Hazard Class:	2.1



Safety Data Sheet

XV. REGULATORY INFORMATION

TSCA Status:	All components of this material are on the US TSCA Inventory or are exempt.
NAFTA Tariff Code:	3402.90.0000
State Restrictions:	None Listed.
WHMIS:	A, B1 B3, D1A, D2B B2, D2B

Chemical Name	Regulation	CAS #	% Range
None Listed.	CERCLA RQ		
Isopropyl alcohol	SARA 313	67-63-0	1 - 5
None Listed.	SARA 302-EHS		
None Listed.	TSCA 12b export notification		
None Listed.	CA Prop 65 – Cancer		
Isopropyl alcohol	Canadian WHMIS List	67-63-0	1 - 5
Butane	Canadian WHMIS List	106-97-8	1 - 5
Ethylene glycol monobutyl ether	Canadian WHMIS List	111-76-2	1 - 5
Normal propane	Canadian WHMIS List	74-98-6	0.1 - 1
Isopropyl alcohol	Massachusetts RTK List	67-63-0	1 - 5
Butane	Massachusetts RTK List	106-97-8	1 - 5
2-Butoxyethanol	Massachusetts RTK List	111-76-2	1 - 5
Propane	Massachusetts RTK List	74-98-6	0.1 - 1
Isopropyl alcohol	New Jersey RTK List	67-63-0	1 - 5
Butane	New Jersey RTK List	106-97-8	1 - 5
2-Butoxyethanol	New Jersey RTK List	111-76-2	1 - 5
Propane	New Jersey RTK List	74-98-6	0.1 - 1
2-Propanol	Pennsylvania RTK List	67-63-0	1 - 5
Butane	Pennsylvania RTK List	106-97-8	1 - 5
Ethanol, 2-butoxy-	Pennsylvania RTK List	111-76-2	1 - 5
Propane	Pennsylvania RTK List	74-98-6	0.1 - 1
Isopropyl alcohol	Minnesota Hazardous Substance List	67-63-0	1 - 5
Butane	Minnesota Hazardous Substance List	106-97-8	1 - 5
2-Butoxyethanol	Minnesota Hazardous Substance List	111-76-2	1 - 5
Propane	Minnesota Hazardous Substance List	74-98-6	0.1 - 1

Consumer Product Safety Improvement Act of 2008 General Conformity Certification:

This product has been evaluated and certified to be labeled and packaged in compliance with the applicable provisions of the Federal Hazardous Substance Act as stated in 16 CFR 1500 and enforced by the Consumer Product Safety Commission, and where applicable the products that require Child Resistant Closures are packaged in accordance with the Poison Prevention Packaging Act as stated in 16 CFR 1700 and enforced by the Consumer Product Safety Commission. All closures have been tested in accordance with the latest protocols. No other testing is required to certify compliance with the above. The date of manufacture is stamped on the product container.



Safety Data Sheet

XVI. ADDITIONAL INFORMATION

Supersedes: 2013-04-09 11:08:53

Revision Date: 2013-04-26 08:56:27

Created by: HAZEMS

Disclaimer: This material safety data sheet and the information it contains is offered to you in good faith as accurate. We have reviewed any information contained in the data sheet which we have received from outside sources and we believe the information to be correct, but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product in a safe manner and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either expressed or implied.