

**MATERIAL SAFETY DATA SHEET**

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**City / State / Zip:** LOS ANGELES / CA / 90058  
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**Vendor Update:** 9/11/2013  
**Date Prepared:** 9/11/2013  
**MSDS Number:** S50 ; S50D1PL ; S50D2PL ; S50LL30 ; S50LL50 ; S50PL ;

**I. CHEMICAL PRODUCT IDENTIFICATION**

**Product Name:** GLASS CLEANER  
**HMIS Ratings:**  
 Health: Slight(1)  
 Flammability: Slight(1)  
 Instability/Reactivity: Minimal(0)  
 Personal Protective Equipment: A  
**NFPA Ratings:**

**Other:**

HMIS - HEALTH = CHRONIC HAZARD

**II. COMPOSITION, INFORMATION ON INGREDIENTS**

<b>Chemical Ingredients</b>	<b>C.A.S. Number</b>	<b>% By Weight</b>	<b>ACGIH TLV TWA/STEL</b>	<b>OSHA PEL TWA/STEL</b>	<b>Other TWA/STEL</b>	<b>LD50</b>	<b>LC50</b>
ETHYL ALCOHOL	64-17-5	1 - 5	1000 PPM NE	1000 PPM NE			
<b>Notes</b>							
2 BUTOXYETHANOL	111-76-2	1 - 5	20 PPM (SKIN) NE	25 PPM (SKIN) NE			
<b>Notes</b>	SKIN: POTENTIAL SIGNIFICANT CONTRIBUTION TO THE OVERALL EXPOSURE TO THIS CHEMICAL VIA THE SKIN.						
LIQUIFIED PETROLEUM GAS MIXTURE	68476-85-7	1 - 5					
<b>Notes</b>	INGREDIANT DATA PROPANE (74-98-6)ACGIH 2500 PPM/NE OSHA 1000 PPM/NE N-BUTANE (106-97-8)ACGIH 800 PPM/NE OSHA NE/NE ISOBUTANE (75-28-5) % BY WT. 0.5-2.0 ACGIH NE/NE OSHA NE/NE						
<b>Other:</b>	BALANCE OF INGREDIANTS ARE NON-HAZARDOUS OR BELOW REPORTABLE LEVELS.						

**III. HAZARDS IDENTIFICATION PRIMARY ROUTE OF ENTRY**

**Eyes:** MAY CAUSE MILD IRRITATION.  
**Skin:** PROLONGED OR REPEATED CONTACT MAY CAUSE IRRITATION.  
**Ingestion:** NOT HAZARDOUS IN NORMAL INDUSTRIAL USE.  
**Inhalation:** PROLONGED EXPOSURE CAN BE IRRITATING TO EYES, NOSE AND RESPIRATORY TRACT.  
**Signs and Symptoms of Exposure:** CHRONIC EFFECTS/TARGET ORGANS: LIVER. KIDNEYS. NERVOUS SYSTEM. HEART AND/OR CIRCULATORY SYSTEM.  
**Medical Conditions Aggravated by Exposure:** NONE KNOWN

**IV. FIRST AID MEASURES**

<b>Eyes:</b>	IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. GET PROMPT MEDICAL ATTENTION.
<b>Skin:</b>	IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. GET PROMPT MEDICAL ATTENTION.
<b>Ingestion:</b>	GET IMMEDIATE MEDICAL ATTENTION. DO NOT INDUCE VOMITING UNLESS DIRECTED BY MEDICAL PERSONNEL. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.
<b>Inhalation:</b>	REMOVE TO FRESH AIR. IF SYMPTOMS DEVELOP, SEEK IMMEDIATE MEDICAL ATTENTION. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION.

#### V. FIRE FIGHTING MEASURES

<b>Flash Point:</b>	<0°F (PROPELLANT); NONE * (CONCENTRATE)
<b>Test Method:</b>	*NONE EVEN UPON BOILING
<b>Lower Flammability Limit:</b>	1.9% (PROPELLANT)
<b>Upper Flammability Limit:</b>	9.5% (PROPELLANT)
<b>Extinguishing Agents:</b>	CARBON DIOXIDE, WATER SPRAY, FOAM OR DRY CHEMICAL.
<b>Unusual Fire or Explosion Hazards:</b>	FIRE FIGHTERS AND OTHERS WHO MAY BE EXPOSED TO THE PRODUCTS OF COMBUSTION SHOULD BE EQUIPPED WITH NIOSH-APPROVED POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS (SCBA) AND FULL PROTECTION CLOTHING. AT ELEVATED TEMPERATURES [OVER 130°F(54°C)], CONTAINERS EXPOSED TO DIRECT FLAME OR HEAT CONTACT SHOULD BE COOLED WITH WATER TO PREVENT WEAKENING OF CONTAINER STRUCTURE.
<b>Fire Fighting Procedures:</b>	CONTAINERS SHOULD BE COOLED WITH WATER TO PREVENT VAPOR PRESSURE BUILD UP. USE EQUIPMENT OR SHIELDING, AS REQUIRED, TO PROTECT PERSONNEL FROM BURSTING, RUPTURING OR VENTING CONTAINERS.
<b>Other:</b>	AEROSOL FLAMMABILITY: PRODUCT IS NOT REQUIRED TO BE LABELED AS FLAMMABLE AS DESCRIBED IN 16 CFR 1500.3 AND 1500.45.

#### VI. ACCIDENTAL RELEASE MEASURES

<b>Containment/Cleanup:</b>	REMOVE ALL SOURCES OF IGNITION AND VENTILATE AREA. SOAK UP SPILL WITH AN INERT ABSORBENT AND PLACE INTO A DESIGNATED DISPOSAL CONTAINER. CONSULT LOCAL REGULATORY AGENCY FOR PROPER DISPOSITION OF MATERIAL.
<b>Other:</b>	PLEASE READ AND FOLLOW THE DIRECTIONS ON THE PRODUCT LABEL; THEY ARE YOUR BEST GUIDE TO USING THIS PRODUCT IN THE MOST EFFECTIVE WAY, AND GIVE THE NECESSARY SAFETY PRECAUTIONS TO PROTECT YOUR HEALTH.

#### VII. HANDLING AND STORAGE

<b>Other:</b>	AVOID BREATHING VAPOR. KEEP AWAY FROM HEAT, SPARKS AND FLAME. USE WITH ADEQUATE VENTILATION. DO NOT PUNCTURE OR INCINERATE CONTAINERS. DO NOT EXPOSE TO DIRECT SUNLIGHT OR STORE AT TEMPERATURES ABOVE 120°F (48.9°C). STORE AS LEVEL 1 AEROSOL (NFPA 30B).
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#### VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Eyes:</b>	SAFETY GLASSES ARE RECOMMENDED.
<b>Skin:</b>	CHEMICAL RESISTANT GLOVES ARE RECOMMENDED; CONSULT GLOVE MANUFACTURER TO DETERMINE THE PROPER TYPE FOR A SPECIFIC OPERATION. OTHER PROTECTIVE CLOTHING OR EQUIPMENT: WEAR IMPERVIOUS CLOTHING TO PREVENT SKIN CONTACT.
<b>Respiratory:</b>	NONE REQUIRED IF GOOD VENTILATION IS MAINTAINED. IF EXPOSURE EXCEEDS OCCUPATIONAL EXPOSURE LIMITS (SEC.II), USE NIOSH APPROVED RESPIRATOR TO PREVENT OVEREXPOSURE.
<b>Engineering:</b>	GENERAL VENTILATION IS ADEQUATE UNDER NORMAL CONDITIONS, MECHANICAL VENTILATION IS OPTIONAL.
<b>Other:</b>	WORK/HYGIENIC PRACTICES: ENSURE STRICT SANITARY CONDITIONS ARE CONFORMED TO WHEN WORKING AROUND CHEMICALS. PROTECTIVE CLOTHING AND EQUIPMENT SHOULD BE IN ACCORDANCE WITH 29 CFR 1910.132 AND CFR 1910.133.

#### IX. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	AEROSOL SPRAY
<b>Boiling Point:</b>	N/A
<b>pH:</b>	10
<b>Solubility in Water:</b>	COMPLETELY
<b>Specific Gravity:</b>	0.9577 (H <sub>2</sub> O=1)
<b>Vapor Pressure:</b>	153 psig @ 130°F ;68 psig @ 70°F
<b>Vapor Density:</b>	ND
<b>Other:</b>	EVAPORATION RATE (ETHER=1): ND

#### X. STABILITY AND REACTIVITY

<b>Stability:</b>	STABLE
<b>Hazardous Polymerization:</b>	N/A
<b>Hazardous Decomposition Products:</b>	CARBON MONOXIDE, CARBON DIOXIDE, HYDROCARBON VAPORS.
<b>Incompatible Products:</b>	OXIDIZING AGENTS, REDUCING AGENTS, ACIDS, BASES.
<b>Conditions To Avoid:</b>	KEEP AWAY FROM HEAT, SPARKS, AND FLAMES. DROPPING OF CONTAINER MAY CAUSE BURSTING.

#### XI. TOXICOLOGICAL INFORMATION

<b>Other:</b>	2-BUTOXYETHANOL MAY AFFECT THE LIVER AND KIDNEYS AND MAY INCREASE RED BLOOD CELL HEMOLYSIS.
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#### XII. ECOLOGICAL INFORMATION

**Ecotoxicity:**

#### XIII. DISPOSAL CONSIDERATIONS

<b>Disposal Method:</b>	DO NOT PUNCTURE OR INCINERATE CONTAINERS. WHEN CONTENTS ARE DEPLETED CONTINUE TO DEPRESS BUTTON UNTIL ALL GAS IS EXPELLED. DISPOSE OF CONTAINER IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.
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**XIV. TRANSPORT INFORMATION****D.O.T. Shipping Name:** CONSUMER COMMODITY**D.O.T. Hazard Class:** ORM-D

**Other:** FOR EXPORT  
 PROPER SHIPPING NAME: AEROSOLS  
 HAZARD CLASS: 2.1  
 UN NUMBER: 1950

**XV. REGULATORY INFORMATION****TSCA Status:** INGREDIENTS OF THIS PRODUCT ARE LISTED ON THE EPA/TSCA INVENTORY OF CHEMICAL SUBSTANCES.**EPA Sara Title III Chemical** 2-BUTOXYETHANOL, SARA TITLE III, SEC. 313.**Listings:****Supplemental State****Compliance Information:**

**New Jersey:** RIGHT-TO-KNOW: DEIONIZED WATER CAS #7732-18-5  
 ETHYL ALCOHOL CAS #64-17-5  
 2-BUTOXYETHANOL CAS #111-76-2  
 LIQUEFIED PETROLEUM GAS MIXTURE CAS #68476-85-7  
 PROPANE CAS #74-98-6  
 N-BUTANE CAS #106-97-8

**XVI. OTHER INFORMATION****WARRANTY INFORMATION**

THIS INFORMATION IS OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS A PRODUCT SPECIFICATION. NO WARRANTY, EXPRESSED OR IMPLIED, IS HEREBY MADE. THE RECOMMENDED INDUSTRIAL HYGIENE AND SAFE HANDLING PROCEDURES ARE BELIEVED TO BE GENERALLY APPLICABLE. HOWEVER, EACH USER SHOULD REVIEW THESE RECOMMENDATIONS IN THE SPECIFIC CONTEXT OF THE INTENDED USE AND DETERMINE WHETHER THEY ARE APPROPRIATE.