

MATERIAL SAFETY DATA SHEET

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MSDS Number: 3371100 ; 3371100LL40 ; 3371100LL60 ; 3371100PL ;

I. CHEMICAL PRODUCT IDENTIFICATION

Product Name: Hi-SHEEN GLASS CLEANER 19 OZ.
HMIS Ratings:

Health: Slight(1)
 Flammability: Slight(1)
 Instability/Reactivity: Minimal(0)
 Personal Protective Equipment: B

NFPA Ratings:

Other: EMERGENCY OVERVIEW:
 CONTENTS UNDER PRESSURE. AEROSOL. PRESSURIZED CONTAINER
 MAY EXPLODE WHEN EXPOSED TO HEAT OR FLAME.
 PROLONGED EXPOSURE MAY CAUSE CHRONIC EFFECTS.

II. COMPOSITION, INFORMATION ON INGREDIENTS

Chemical Ingredients	C.A.S. Number	% By Weight	ACGIH TLV TWA/STEL	OSHA PEL TWA/STEL	Other TWA/STEL	LD50	LC50
2-BUTOXYETHANOL	111-76-2	3-5	20 PPM	50 PPM			
Notes							
DIMETHYL ETHER	115-10-6	1-3					
Notes							
ISOBUTANE	75-28-5	1-3	1000 PPM				
Notes							
NON-HAZARDOUS AND OTHER COMPONENTS BELOW REPORTABLE LEVELS		>90					
Notes							

III. HAZARDS IDENTIFICATION PRIMARY ROUTE OF ENTRY

Eyes: HEALTH INJURIES ARE NOT KNOWN OR EXPECTED UNDER NORMAL USE.

Skin: THIS PRODUCT MAY BE HARMFUL IF IT IS ABSORBED THROUGH THE SKIN. PROLONGED OR REPEATED CONTACT CAN RESULT IN DEFATTING AND DRYING OF THE SKIN WHICH MAY RESULT IN SKIN IRRITATION AND DERMATITIS (RASH).

Ingestion: EXPOSURE BY INGESTION OF AN AEROSOL IS UNLIKELY. COMPONENTS OF THE PRODUCT MAY BE ABSORBED INTO THE BODY BY INGESTION.

Inhalation: INTENTIONAL MISUSE BY CONCENTRATING AND INHALING THE PRODUCT CAN BE HARMFUL OR FATAL.

Other: ROUTES OF EXPOSURE
 INGESTION. SKIN CONTACT.

IV. FIRST AID MEASURES

- Eyes:** IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS OR PERSISTS.
- Skin:** IMMEDIATELY TAKE OFF ALL CONTAMINATED CLOTHING. WASH OFF WITH WARM WATER AND SOAP. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS OR PERSISTS.
- Ingestion:** HAVE VICTIM RINSE MOUTH THOROUGHLY WITH WATER. IF INGESTION OF A LARGE AMOUNT DOES OCCUR, CALL A POISON CONTROL CENTER IMMEDIATELY.
- Inhalation:** IF SYMPTOMS DEVELOP MOVE VICTIM TO FRESH AIR. IF SYMPTOMS PERSIST, GET MEDICAL ATTENTION.

V. FIRE FIGHTING MEASURES

- Flash Point:** -156°F (-104.4°C) ESTIMATED
- Extinguishing Agents:** WATER FOG. FOAM. DRY CHEMICAL POWDER. CARBON DIOXIDE (CO2).
- Unusual Fire or Explosion Hazards:** VAPOR OR GAS MAY SPREAD TO DISTANT IGNITION SOURCES AND FLASH BACK.
- Fire Fighting Procedures:** IN THE EVENT OF FIRE AND/OR EXPLOSION DO NOT BREATHE FUMES. WEAR FULL PROTECTIVE CLOTHING, INCLUDING HELMET, SELF-CONTAINED POSITIVE PRESSURE OR PRESSURE DEMAND BREATHING APPARATUS, PROTECTIVE CLOTHING AND FACE MASK. CONTAINERS SHOULD BE COOLED WITH WATER TO PREVENT VAPOR PRESSURE BUILD UP.

VI. ACCIDENTAL RELEASE MEASURES

- Containment/Cleanup:** METHODS FOR CONTAINMENT
ELIMINATE ALL IGNITION SOURCES (NO SMOKING, FLARES, SPARKS, OR FLAMES IN IMMEDIATE AREA). STOP LEAK IF YOU CAN DO SO WITHOUT RISK. MOVE THE CYLINDER TO A SAFE AND OPEN AREA IF THE LEAK IS IRREPARABLE. STOP THE FLOW OF MATERIAL, IF THIS IS WITHOUT RISK. PREVENT ENTRY INTO WATERWAYS, SEWERS, BASEMENTS OR CONFINED AREAS.
METHODS FOR CLEAN UP
USE NON-COMBUSTIBLE MATERIAL LIKE VERMICULITE, SAND OR EARTH TO SOAK UP THE PRODUCT AND PLACE INTO A CONTAINER FOR LATER DISPOSAL.
SMALL SPILLS: WIPE UP WITH ABSORBENT MATERIAL (E.G. CLOTH, FLEECE). CLEAN CONTAMINATED SURFACES THOROUGHLY.

VII. HANDLING AND STORAGE

- Other:** HANDLING: PRESSURIZED CONTAINER: DO NOT PIERCE OR BURN, EVEN AFTER USE. DO NOT HANDLE OR STORE NEAR AN OPEN FLAME, HEAT OR OTHER SOURCES OF IGNITION. DO NOT USE IF SPRAY BUTTON IS MISSING OR DEFECTIVE. USE ONLY WITH ADEQUATE VENTILATION. DO NOT GET THIS MATERIAL IN CONTACT WITH EYES. DO NOT GET THIS MATERIAL IN CONTACT WITH SKIN. AVOID PROLONGED EXPOSURE.
STORAGE: LEVEL 1 AEROSOL.
CONTENTS UNDER PRESSURE. DO NOT PUNCTURE, INCINERATE OR CRUSH. KEEP AWAY FROM HEAT, SPARKS, AND FLAME. AVOID EXPOSURE TO LONG PERIODS OF SUNLIGHT. STORE IN COOL PLACE. KEEP THE CONTAINER DRY.

KEEP OUT OF THE REACH OF CHILDREN. DO NOT STORE, INCINERATE, OR HEAT THIS MATERIAL ABOVE 120 DEGREES FAHRENHEIT.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes:	WEAR CHEMICAL GOGGLES.
Skin:	WEAR APPROPRIATE CHEMICAL RESISTANT GLOVES. WEAR APPROPRIATE CHEMICAL RESISTANT CLOTHING.
Respiratory:	WHEN WORKERS ARE FACING CONCENTRATIONS ABOVE THE EXPOSURE LIMIT THEY MUST USE APPROPRIATE CERTIFIED RESPIRATORS. IF PERMISSIBLE LEVELS ARE EXCEEDED USE NIOSH MECHANICAL FILTER/ORGANIC VAPOR CARTRIDGE OR AN AIR-SUPPLIED RESPIRATOR.
Engineering:	USE WITH ADEQUATE VENTILATION.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	CLEAR COMPRESSED LIQUEFIED GAS
Boiling Point:	203°F (95°C) ESTIMATED
pH:	10-11
Solubility in Water:	PARTIALLY
Specific Gravity:	0.9484 ESTIMATED
Vapor Pressure:	60-80 PSIG @ 70F
Physical State:	LIQUID; FORM: AEROSOL
Volatile Content:	7.7%, 75 g/L, .06 LBS/GAL
Other:	FLAMMABILITY (HOC): 4.0411 KJ/G ESTIMATED FLASH BACK: NO.

X. STABILITY AND REACTIVITY

Stability:	RISK OF IGNITION. STABLE AT NORMAL CONDITIONS.
Hazardous Decomposition Products:	NO HAZARDOUS DECOMPOSITION PRODUCTS ARE KNOWN.
Incompatible Products:	NONE KNOWN
Conditions To Avoid:	HEAT, FLAMMABLE AND SPARKS.

XI. TOXICOLOGICAL INFORMATION

Acute Toxicology Data:	ACUTE LD50: 5835 MG/KG ESTIMATED, RAT, DERMAL.
Special Hazard Information:	SENSITIZATION: NOT EXPECTED TO BE HAZARDOUS BY OSHA CRITERIA. REPRODUCTIVE EFFECTS NOT EXPECTED TO BE HAZARDOUS BY OSHA CRITERIA. TERATOGENICITY NOT EXPECTED TO BE HAZARDOUS BY OSHA CRITERIA.

XII. ECOLOGICAL INFORMATION

Environmental Fate and Distribution:	COMPONENTS OF THIS PRODUCT HAVE BEEN IDENTIFIED AS HAVING POTENTIAL ENVIRONMENTAL CONCERNS.
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XIII. DISPOSAL CONSIDERATIONS

Disposal Method:	CONTENTS UNDER PRESSURE. DISPOSE OF THIS MATERIAL AND ITS CONTAINER AT HAZARDOUS OR SPECIAL WASTE COLLECTION POINT. DO NOT INCINERATE SEALED CONTAINERS. DO NOT ALLOW THIS MATERIAL TO DRAIN INTO SEWERS/WATER SUPPLIES. IF DISCARDED, THIS PRODUCT IS CONSIDERED A RCRA IGNITABLE WASTE, D001. DIPSPOSE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.
RCRA Class:	D001: WASTE FLAMMABLE MATERIAL*
Other:	*WITH A FLASH POINT <140°F.

XIV. TRANSPORT INFORMATION

D.O.T. Shipping Name:	CONSUMER COMMODITY
D.O.T. Hazard Class:	ORM-D, IMDG, AND IATA (SEE BELOW).
Other:	ORM-D: SHIPPING NAME: CONSUMER COMMODITY; PACKAGING EXCEPTIONS: 156,306; AND PACKAGING NON BULK: 156,306. IMDG: SHIPPING NAME: AEROSOLS; HAZARD CLASS: 2.1; UN NUMBER: 1950; PACKAGING EXCEPTIONS: LTD QTY; ITEM: 5F; TRANSPORT CATEGORY: 2. IATA: SHIPPING NAME: AEROSOLS, FLAMMABLE; HAZARD CLASS: 2.1; UN NUMBER: 1950; PACKAGING EXCEPTIONS: LTD QTY; AND LABELS REQUIRED: 2.1.

XV. REGULATORY INFORMATION

EPA Sara Title III Chemical Listings:	THIS PRODUCT IS A "HAZARDOUS CHEMICAL" AS DEFINED BY THE OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200. U.S. - CERCLA/SARA - SECTION 313- EMISSION REPORTING 2-BUTOXYETHANOL, CAS# 111-76-2; 1.0% DE MINIMIS CONCENTRATION (APPLIES TO R-(OCH ₂ CH ₂) _N -OR', WHERE N = 1,2, OR , R=ALKYL C7 OR LESS, OR R = PHENYL OR ALKYL SUBSTITUTED PHENYL, R'= H OR ALKYL C7 OR LESS, OR OR' CONSISTING OF CARBOXYLIC ACID ESTER, SULFATE, PHOSPHATE, NITRATE, OR SULFONATE, CHEMICAL CATEGORY N230) OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA): 29 CFR 1910.1200 HAZARDOUS CHEMICAL: YES. CERCLA (SUPERFUND) REPORTABLE QUANTITY: NONE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) HAZARD CATEGORIES: IMMEDIATE HAZARD: YES DELAYED HAZARD: NO FIRE HAZARD: YES PRESSURE HAZARD: YES REACTIVITY HAZARD: NO SECTION 302 EXTREMELY HAZARDOUS SUBSTANCE: NO. SECTION 311 HAZARDOUS CHEMICAL: YES.
Pennsylvania:	U.S.-PENNSYLVANIA-RTK (RIGHT TO KNOW) LIST 2-BUTOXYETHANOL: CAS# 111-76-2; PRESENT. DIMETHYL ETHER: CAS# 115-10-6; PRESENT. ISOBUTANE: CAS# 75-28-5; PRESENT.
Other:	INVENTORY STATUS: COUNTRY(S) OR REGION / INVENTORY NAME / ON INVENTORY (YES/NO)* CHINA / INVENTORY OF EXISTING CHEMICAL SUBSTANCES IN CHINA (IECSC) / NO. EUROPE / EUROPEAN INVENTORY OF NEW AND EXISTING CHEMICALS (EINECS) / NO. EUROPE / EUROPEAN LIST OF NOTIFIED CHEMICAL SUBSTANCES (ELINCS) / NO. JAPAN / INVENTORY OF EXISTING AND NEW CHEMICAL SUBSTANCES (ENCs) /

NO.

KOREA / EXISTING CHEMICALS LIST (ECL) / NO.

UNITED STATES AND PUERTO RICO / TOXIC SUBSTANCES CONTROL ACT
(TSCA) INVENTORY / YES*.

*A "YES" INDICATES THAT ALL COMPONENTS OF THIS PRODUCT COMPLY
WITH THE INVENTORY REQUIREMENTS ADMINISTERED BY THE GOVERNING
COUNTRY(S).

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.