

MATERIAL SAFETY DATA SHEET

PRODUCT: GLARE - GLASS CLEANER 539G



Section 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

SUPPLIER:.....EVCOR SOLUTIONS INC.
530 ADELAIDE STREET WEST
TORONTO, ON M5V 1T5 1-800-860-1537
CANUTEC EMERGENCY #:1-613-996-6666(24HR)

PRODUCT NAME.....G L A R E GLASS CLEANER 539G
CHEMICAL FAMILY.....DETERGENT
MOLECULAR WEIGHT.....NOT APPLICABLE.
CHEMICAL FORMULA.....NOT APPLICABLE.
TRADE NAMES & SYNONYMS.....GLARE
PRODUCT USES.....GLASS CLEANER.

Section 02: COMPOSITION/INFORMATION INGREDIENTS

Hazardous Ingredients	%	Exposure Limit	C.A.S.#	LD/50, Route, Species	LC/50 Route, Species
ETHYLENE GLYCOL MONOBUTYL ETHER	1-5	25 ppm	111-76-2	530 - 2616 mg/kg ORAL - RAT	450 ppm (4 hr) INHAL - RAT
ETHANOL	1-5	1000 ppm	64-17-5	7060 mg/kg ORAL - RAT	31,623 ppm (4 hr) INHAL - RAT
ISOBUTANE	3-7	1000 ppm	75-28-5	NOT APPLICABLE	142,500 ppm (4h) INHAL - RAT
PROPANE	0.1-1.0	1000 ppm	74-98-6	>5000 mg/kg DERMAL-RABBITS	NOT AVAILABLE

Section 03: HAZARDS IDENTIFICATION

ROUTE OF ENTRY:
INGESTION..... ETHYLENE GLYCOL MONOBUTYL ETHER MAY CAUSE RED BLOOD CELL HEMOLYSIS AND POSSIBLE LIVER AND KIDNEY DAMAGE. MAY CAUSE HEADACHE, NAUSEA, VOMITING AND WEAKNESS.

INHALATION..... INHALATION OF SOLVENTS MAY CAUSE IRRITATION. PROPELLANT IS A SIMPLE ASPHYXIANT.

EYE CONTACT..... ETHYLENE GLYCOL MONOBUTYL ETHER CAUSES MODERATE IRRITATION AND POSSIBLE CORNEAL INJURY.

SKIN ABSORPTION..... ETHYLENE GLYCOL MONOBUTYL ETHER PENETRATES SKIN READILY. FREQUENT OR WIDE SPREAD CONTACT MAY RESULT IN THE ABSORPTION OF POTENTIALLY HARMFUL AMOUNTS. SIGNS AND SYMPTOMS OF TOXICITY ARE SIMILAR TO THOSE OF SWALLOWING.

SKIN CONTACT..... ETHANOL CAN BE ABSORBED IN TOXIC AMOUNTS, ESPECIALLY FROM PROLONGED OR REPEATED EXPOSURE.

EFFECTS OF ACUTE EXPOSURE..... MAY CAUSE IRRITATION.
DIZZINESS, NAUSEA. IRRITATION TO SKIN & EYES. ETHANOL-LONG TERM REPEATED ORAL EXPOSURE MAY RESULT IN THE DEVELOPMENT OF PROGRESSIVE LIVER INJURY WITH FIBROSIS.

EFFECTS OF CHRONIC EXPOSURE..... ETHYLENE GLYCOL MONOBUTYL ETHER MAY CAUSE HEMOLYSIS OF THE RED BLOOD CELLS LEADING TO POSSIBLE LIVER AND KIDNEY DAMAGE.

EXPOSURE LIMIT OF MATERIAL..... SOLVENTS MAY CAUSE DEFATTING DERMATITIS
SEE SECTION 2.

Section 04: FIRST AID MEASURES

EMERGENCY FIRST AID PROCEDURE IN CASE OF CONTACT, IMMEDIATELY FLUSH SKIN OR EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES; FOR EYES, GET MEDICAL ATTENTION. IN CASE OF INGESTION, DO NOT INDUCE VOMITING. CALL A PHYSICIAN OR POISON CONTROL CENTRE IMMEDIATELY AND HAVE NAMES OF INGREDIENTS AVAILABLE.

Section 05: FIRE FIGHTING MEASURES

AUTO IGNITION TEMPERATURE (°C)..... 399-422.

SPECIAL PROCEDURES..... WATER FROM FOGGING NOZZLES MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT BUILD-UP IF EXPOSED TO EXTREME TEMPERATURES. FULL PROTECTIVE EQUIPMENT INCLUDING SELF CONTAINED BREATHING APPARATUS SHOULD BE WORN IN A FIRE INVOLVING THIS MATERIAL.

FLAMMABILITY..... NOT A FLAMMABLE PRODUCT (AS PER CANADIAN AEROSOL REGULATIONS).
IF YES, UNDER WHICH CONDITIONS?..... EXCESSIVE HEAT, SPARKS AND OPEN FLAME.

EXTINGUISHING MEDIA..... WATER, CARBON DIOXIDE, DRY CHEMICAL, FOAM.

FLASH POINT (C), TAG CLOSED CUP..... LOWEST KNOWN VALUE IS ETHANOL @ 13C .

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UPPER FLAMMABLE LIMIT.....	12.6.
(% BY VOLUME)	
LOWER FLAMMABLE LIMIT.....	1.1.
(% BY VOLUME)	
EXPLOSION DATA	
SENSITIVITY TO STATIC DISCHARGE.....	NOT APPLICABLE.
SENSITIVITY TO IMPACT.....	NOT APPLICABLE.
HAZARDOUS COMBUSTION PRODUCTS.....	
	HYDROCARBON FUMES AND SMOKE. CARBON MONOXIDE WHERE COMBUSTION IS INCOMPLETE.
AEROSOL FLAME PROJECTION CLASSIFIED AS:.....	
	0 cm.
FLASHBACK.....	NONE.

Section 06: ACCIDENTAL RELEASE MEASURES

LEAK/SPILL.....	REMOVE ALL SOURCES OF IGNITION. USE AN INERT ABSORBENT MATERIAL, AND NON-SPARKING TOOLS. VENTILATE AREA. PREVENT FROM ENTERING A WATERCOURSE.
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Section 07: HANDLING AND STORAGE

STORAGE NEEDS.....	KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAMES.
ENGINEERING CONTROLS.....	VENTILATION - LOCAL (MECHANICAL IF USED INDOORS ON A CONTINUOUS BASIS).
HANDLING PROCEDURES AND EQUIPMENT.....	STORE IN A COOL, WELL VENTILATED AREA NOT TO EXCEED 50 DEG C.
SYNERGISTIC MATERIALS.....	NONE KNOWN.

Section 08: EXPOSURE CONTROLS/PERSONAL PROTECTION

GLOVES/ TYPE.....	WEAR CHEMICAL RESISTANT GLOVES.
RESPIRATORY/TYPE.....	IF USED INDOORS ON A CONTINUOUS BASIS, USE OF A CARTRIDGE TYPE RESPIRATOR (NIOSH/MSHATC 23C OR EQUIVALENT) IS RECOMMENDED.
EYE/TYPE.....	SAFETY GLASSES.
FOOTWEAR/TYPE.....	NOT NORMALLY REQUIRED.
OTHER/TYPE.....	NOT REQUIRED.

Section 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE.....	AEROSOL.
APPEARANCE.....	CLEAR LIQUID.
ODOR.....	FRAGRANT.
ODOR THRESHOLD.....	NOT AVAILABLE.
VAPOUR PRESSURE(PSIG)-AEROSOL.....	30 - 40.
@ 20 C	
BOILING POINT (°C)(CONC).....	83-171.
EVAPORATION RATE.....	LESS THAN 1.
n-BUTYL ACETATE = 1	
VAPOUR DENSITY (AIR=1).....	GREATER THAN 1.
(BY WEIGHT)	
SOLUBILITY IN WATER g/L (20°C).....	COMPLETE.
pH.....	10.4-10.8.
SPECIFIC GRAVITY (LIQUID).....	0.96-1.00.
COEFFICIENT OF WATER/OIL DIST.....	NOT AVAILABLE.
FREEZING POINT: (°C).....	NOT AVAILABLE.
AEROSOL PERCENT VOLATILE.....	99-100.
(BY WEIGHT).	
SPECIFIC GRAVITY (AEROSOL).....	0.92-0.96.

Section 10: STABILITY AND REACTIVITY

HAZARDOUS PRODUCTS OF DECOMPOSITION.....	HYDROCARBON FUMES AND SMOKE. CARBON MONOXIDE WHERE COMBUSTION IS INCOMPLETE.
CHEMICAL STABILITY:	
YES.....	UNDER NORMAL CONDITIONS.
NO, WHICH CONDITIONS?.....	NOT APPLICABLE.
COMPATIBILITY WITH OTHER SUBSTANCES:	
NO, WHICH ONES?.....	STRONG OXIDIZING AGENTS.
REACTIVITY CONDITIONS?.....	NOT APPLICABLE.
HAZARDOUS POLYMERIZATION.....	WILL NOT OCCUR.

Section 11: TOXICOLOGICAL INFORMATION

REPRODUCTIVE EFFECTS.....	NO INFORMATION IS AVAILABLE AND NO ADVERSE REPRODUCTIVE EFFECTS ARE ANTICIPATED.
IRRITANCY OF MATERIAL.....	SKIN/EYE IRRITANT.
SENSITIZING CAPABILITY OF MATERIAL.....	UNKNOWN.
CARCINOGENICITY OF MATERIAL.....	THE INGREDIENTS OF THIS PRODUCT ARE NOT LISTED AS CARCINOGENS BY NTP, (NATIONAL TOXICOLOGY PROGRAM), NOT REGULATED AS CARCINOGENS BY OSHA, (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION), AND HAVE NOT BEEN EVALUATED BY IARC,(INTERNATIONAL AGENCY FOR RESEARCH ON CANCER), NOR BY ACGIH (AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS).

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Section 11: TOXICOLOGICAL INFORMATION

TERATOGENICITY..... NO INFORMATION IS AVAILABLE AND NO ADVERSE TERATOGENIC EFFECTS ARE ANTICIPATED.
 MUTAGENICITY..... NO INFORMATION IS AVAILABLE AND NO ADVERSE MUTAGENIC EFFECTS ARE ANTICIPATED.

Section 12: ECOLOGICAL CONSIDERATIONS

ENVIRONMENTAL..... NOT AVAILABLE.

Section 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL..... DO NOT PUNCTURE OR INCINERATE CONTAINERS, EVEN WHEN EMPTY. DISPOSE OF IN ACCORDANCE WITH LOCAL, PROVINCIAL AND FEDERAL REGULATIONS.

Section 14: TRANSPORTATION INFORMATION

T.D.G. CLASSIFICATION..... CONSUMER COMMODITY (AEROSOLS, UN1950, CLASS 2.2).
 D.O.T. CLASSIFICATION..... CONSUMER COMMODITY, ORM-D.

Section 15: REGULATORY INFORMATION

CANADIAN REGULATIONS:

WHMIS CLASSIFICATION..... A, D1A, D2B.
 CNFC SECTION 3.3.5..... LEVEL 1.
 CEPA (Canadian Environmental Protection Act) ALL SUBSTANCES IN THIS PRODUCT ARE LISTED ON THE CANADIAN DOMESTIC SUBSTANCES LIST (DSL) OR ARE NOT REQUIRED TO BE LISTED.

U.S. REGULATIONS:

HMIS RATING HEALTH..... 2 MODERATE HAZARD.
 HMIS RATING FLAMMABILITY..... 1 SLIGHT HAZARD.
 HMIS RATING REACTIVITY..... 0 MINIMAL HAZARD.
 HMIS RATING PERSONAL PROTECTION..... B.
 NFPA CODE 30B..... LEVEL 1.
 SARA 313 INFORMATION: THIS PRODUCT CONTAINS THE FOLLOWING SUBSTANCES SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372:
 CAS #: CHEMICAL NAME:
 *111-76-2 ETHYLENE GLYCOL MONOBUTYL ETHER
 CALIFORNIA PROPOSITION 65: THE FOLLOWING STATEMENT IS MADE IN ORDER TO COMPLY WITH THE CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986:
 WARNING: THIS PRODUCT DOES NOT INTENTIONALLY CONTAIN ANY CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.
 . CAS #: CHEMICAL NAME:
 . N/A.
 TSCA (Toxic Substances Control Act)..... ALL COMPONENT OF THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY. ANY IMPURITIES PRESENT IN THIS PRODUCT ARE EXEMPT FROM LISTING.
 VOC (w/w%)..... 9-10.

Section 16: OTHER INFORMATION

DISCLAIMER:

NOTICE TO READER..... INFORMATION FOR THIS MATERIAL SAFETY DATA SHEET WAS OBTAINED FROM SOURCES CONSIDERED TECHNICALLY ACCURATE AND RELIABLE. NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE AND THE SUPPLIER WILL NOT BE LIABLE FOR ANY LOSSES, INJURIES OR CONSEQUENTIAL DAMAGES, WHICH MAY RESULT FROM THE USE OF OR RELIANCE ON ANY INFORMATION, CONTAINED IN THIS FORM.

PREPARED BY..... TECHNICAL SERVICES
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