

Product Code: MSDS030
Product Name: GLASS CLEANER
 ITEM CODES: LGC55GAL, 911860

24-hour Emergency Phone: (800) 535-5053

HMIS CODES H F R P
 2 0 0 X

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

DISTRIBUTED BY:
 DAYCON PRODUCTS COMPANY, INC.
 16001 TRADE ZONE AVE.
 UPPER MARLBORO, MD 20774

2. HAZARDS IDENTIFICATION

WARNING. Irritating to the skin, eyes, and digestive system. Harmful by inhalation or ingestion and in contact with the skin. Long-term exposure may cause kidney and/or liver damage. Vapors may cause drowsiness and dizziness. Irritating to the eyes. Signs and symptoms of irritation include burning sensation, redness, swelling, and/or blurred vision.

Hazard Classification:

Skin Corrosion/Irritation:	Category 3
Serious Eye Damage/Eye Irritation:	Category 2B
Acute Toxicity:	Category 4

SIGNAL WORD: WARNING

HAZARD STATEMENTS:

H316 Causes mild skin irritation.
H320 Causes eye irritation.
H302/H332 Harmful if swallowed or if inhaled.

PRECAUTIONARY STATEMENTS:

P102 Keep out of reach of children.
P264 Wash hands thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P305/P351/P338/P337/P313 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. If eye irritation persists: Get medical advice/attention.
P501 Dispose of contents/container in accordance with local, regional, and national regulations.

Potential Health Effects

EYE:
Mild to moderate eye irritant.

SKIN:

Skin irritant.

INGESTION:

Low to moderately toxic. May cause headache, dizziness and gastrointestinal distress. Causes rapid damage to red blood cells and subsequent anemia. Repeated exposure may cause liver and kidney damage. Ingestion may lead to drunkenness, dizziness, and in severe cases alcohol poisoning.

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INHALATION:

Prolonged inhalation may result in respiratory irritation. May produce symptoms of central nervous system depression including headache, dizziness, nausea, euphoria, loss of equilibrium, drowsiness, visual disturbances, fatigue, unconsciousness and respiratory arrest. Severe overexposure may cause red blood cell damage.

CHRONIC (CANCER) INFORMATION:

Not listed by IARC or NTP as a carcinogen.

TERATOLOGY (BIRTH DEFECT) INFORMATION:

Ethylene glycol, CAS # 107-21-1, present as an impurity in 2-butoxyethanol, is a reproductive and developmental toxicant when administered at high doses in experimental animals.

REPRODUCTION INFORMATION:

May damage rapidly reproducing cells.

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Component/Exposure Limits	CAS#	% by Wt.
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Isopropyl alcohol	67-63-0	5-15
OSHA PEL: 400 ppm; 980 mg/m3		
OSHA STEL: 500 ppm; 1225 mg/m3		
ACGIH TWA: 200 ppm		
ACGIH STEL: 400 ppm		
2-butoxyethanol	111-76-2	<2
ACGIH TWA: 20 ppm		
OSHA TWA: 50 ppm; 240 mg/m3		
Ammonium hydroxide	1336-21-6	.2
TWA: 25 ppm; STEL: 35 ppm		
OSHA TRANS PEL: 50 ppm, 35 mg/m3		
ACGIH STEL: 35 ppm, 24 mg/m3		
Exposure limits are for ammonia (CAS 7664-41-7) in air.		
Sodium C14-16 Olefin Sulfonate	68439-57-6	<0.5

4. FIRST AID MEASURES

EYES:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. If eye irritation persists: Get medical advice/attention.

SKIN:

Wash with soap and water.

INGESTION:

If swallowed, Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. DO NOT INDUCE vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

INHALATION:

Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth to mouth, if possible. Call a poison control center or doctor for further treatment advice.

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NOTE TO PHYSICIANS:

In vitro results with human red blood cells suggest that humans are more resistant to the hemolytic effects of 2-butoxyethanol than laboratory test animals such as mice, rats, and rabbits. These results suggest that hemolysis and secondary effects observed in laboratory animals are unlikely to occur in humans except in extreme cases when exposure is severe and/or prolonged. Indictors for treatment and observation include metabolic acidosis, urinary excretion of 2-butoxy acetic acid (BAA), hemolysis, or hematurial. Alcohol causes central nervous system depression. Dermatitis may result from prolonged or repeated exposure. Potential for chemical pneumonitis. Consider: gastric lavage with protected airway, administration of activated charcoal.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

FLASH POINT: Greater than **Method: CLOSED CUP**
 200F. Not flammable.

FLAMMABLE LIMITS:

Lower flammable limit: N/A
Upper flammable limit: N/A

AUTOIGNITION TEMPERATURE:

No Information Available.

HAZARDOUS COMBUSTION PRODUCTS:

Oxides of carbon.

EXTINGUISHING MEDIA:

For a SMALL fire, Use dry chemicals, CO2, water spray or alcohol-resistant foam. For a LARGE fire, use water spray, water fog or alcohol resistant foam.

FIREFIGHTING INSTRUCTIONS:

Wear appropriate and suitable protective clothing and breathing equipment for the situation. Follow NFPA Fire Protection Guidelines. Vapors can travel to a source of ignition and flash back. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Move containers from fire area if you can do so without risk. Cool containers with flooding quantities of water.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL:

Use appropriate containment to avoid run-off. Keep out of streams, sewers and waterways. Collect free material. Absorb remainder with inert absorbant. Wash area with plenty of water.

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LARGE SPILL:

If possible, clean up spill area on a dry basis and then flush with plenty of water. Absorb liquid with vermiculite, floor absorbent or other absorbent material. Keep out of sewer, streams, ponds, lakes, or other waterways.

7. HANDLING AND STORAGE

HANDLING:

Containers, even those that have been emptied, will retain product residue and vapor and should be handled as if they were full. Do not eat, drink or smoke in areas where this material is used. After handling, always wash hands thoroughly with soap and water. Use only with adequate ventilation/personal protection. Avoid contact with eyes, skin or clothing.

STORAGE:

Take the usual chemicals handling precautions. Avoid contact with eyes, skin and clothing. Wear appropriate protective equipment. Wash thoroughly after handling. Do not take internally. Keep out of reach of children. Do not contaminate food or water by storage or disposal. Keep containers closed when not in use. Store in original containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

When used as directed, no engineering controls are necessary. If used in a confined space and excess material is used, a source of ventilation may be required.

RESPIRATORY PROTECTION:

If vapors are present, use NIOSH approved respirator or self contained breathing apparatus. If irritation is experienced, a NIOSH-approved respirator should be worn. Ventilation and other forms of engineering controls are often the preferred means for controlling chemical exposure. Respiratory protection may be needed for non-routine or emergency situations.

SKIN PROTECTION:

Impervious Such As Neoprene or nitrile.

EYE PROTECTION:

Chemical splash goggles with side shields recommended.

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9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: 180.5 F
MELTING POINT: Not applicable.
VAPOR PRESSURE: NO INFORMATION AVAILABLE.
VAPOR DENSITY: (Air=1): >1
SOLUBILITY IN WATER: Soluble
SPECIFIC GRAVITY: .98
pH: 10.7-11.3
ODOR: Strong butyl (2-butoxyethanol) odor.
APPEARANCE: Clear blue liquid.

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY (CONDITIONS TO AVOID) :

Stable.

INCOMPATIBILITY:

Strong oxidizing agents, strong acids.

HAZARDOUS DECOMPOSITION PRODUCTS:

Oxides of carbon, may be emitted if product burns.

HAZARDOUS POLYMERIZATION:

Will not occur.

11. TOXICOLOGICAL INFORMATION

EYE:

EGBE is irritating to the eyes.

SKIN:

EGBE is a minimal hazard by skin contact with liquid or vapor. May be absorbed through the skin. High dermal doses of EGBE (most likely achieved from exposure to undiluted product) may cause weakness, headache, and nausea. Extensive and prolonged contact with skin may cause confusion, anxiety, decreased blood pressure, and CNS depression with collapse and coma.

INGESTION:

May cause weakness, confusion, anxiety, decreased blood pressure, and CNS depression with collapse and coma. Product may also be corrosive to the digestive system tissue.

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INHALATION:

Exposure to vapor may cause irritation of the eyes, nose, and respiratory tract. May cause nausea. May cause headaches.

SUBCHRONIC:

All components of this product are listed on the U. S. TOXIC SUBSTANCE CONTROL ACT (TSCA) Inventory or exemption has been granted in accordance with 40 CFR 723.50.

CHRONIC/CARCINOGENICITY:

Not classified as a carcinogen.

TERATOLOGY:

Ethylene glycol, CAS # 107-21-1, is a reproductive and developmental toxicant when administered at high doses in experimental animals.

REPRODUCTION:

May cause toxicity to reproduction following repeated doses at generally high exposure concentrations based on animal test data. Selective reproductive toxicant to mice, but not rats. In mice reproductive effects were observed at dose levels higher than those causing developmental toxicity in mice or renal toxicity in rats.

MUTAGENICITY:

Not mutagenic.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION:

In air, the photodegradation half-life of EGBE ranges from 16-27.5 hours. Does not undergo hydrolysis. Highly mobile in soil. In water, the volatilization half-life of EGBE from a model river and lake is estimated to be 25 days and 185 days, respectively. The estimated half-life in ground water ranges from 14 days to 8 weeks. In soil, the estimated half-life of EGBE ranges from 7 days to 4 weeks.

This material is expected to be readily biodegradable.
Low potential for bioaccumulation. BCF = 3.0 (estimated.)

CHEMICAL FATE INFORMATION:

There is no data available on the product.

13. DISPOSAL CONSIDERATIONS

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

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14. TRANSPORT INFORMATION (Not meant to be all inclusive)

Not regulated.

15. REGULATORY INFORMATION: (Not meant to be all inclusive - selected regulations represent

U.S. FEDERAL REGULATIONS:

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) 29 CFR 1910.1200

OSHA:

HAZCOM STANDARD

CERCLA: SARA HAZARD CATEGORY:

Acute and chronic health hazard. Fire hazard.

SECTION 313:

This product contains 2-Butoxyethanol and Ethylene glycol, which are reportable under SARA Title III, Section 313 and 40 CFR 372.

INTERNATIONAL REGULATIONS:

CANADIAN WHMIS:

Class E: Corrosive Liquid No Information Available.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA):

No Information Available.

EINECS:

No information available.

STATE REGULATIONS:

2-Butoxyethanol and Ethylene glycol are regulated by California, Massachusetts, and Pennsylvania's Right-to-Know laws.

VOLATILE ORGANIC COMPOUNDS:

No Information Available.

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16. OTHER INFORMATION

SDS Status:

Compliant with OSHA's new GHS safety data sheet (SDS).

Information in this Safety Data Sheet (SDS) is based on sources other than direct test data and is given in good faith. No warranty is expressed or implied. We believe that the information is current as of the date of this SDS. The use of this information, the conditions, the methods of handling, storage, use and disposal of the product are not within the control of Daycon Products Company, Inc., therefore it is the user's responsibility and obligation to determine the conditions of the safe use of this product and to ensure that its activities comply with all laws and regulations.