

MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT IDENTIFICATION AND PREPARATION INFORMATION

Product Name: GLASS CLEANER CONCENTRATE
Product Use: Glass cleaner
WHMIS Class: Class B - Division 2; Flammable Liquid
Class D - Division 2B

HEALTH	2
FLAMMABILITY	3
REACTIVITY	0
PERSONAL PROTECTION	B

T.D.G. Classification:
Flammable liquids, n.o.s. (Isopropanol); Class 3; UN1993; PG III
(This is only applicable to containers greater than 454 litres.)

Manufacturer Name and Address: Kemsol Products Ltd.
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SECTION II - HAZARDOUS INGREDIENTS

<u>Ingredients</u>	<u>CAS#</u>	<u>Wt%</u>	<u>ACGIH-TLV</u>	<u>LC₅₀</u>	<u>LD₅₀</u>
2-Butoxy ethanol	111-76-2	10-30	20 ppm Skin	926 ppm 4 h, rat	470 mg/kg oral, rat
2-Propanol	67-63-0	15-40	400 ppm TWA	16971 ppm 4 h, rat	4710 mg/kg oral, rat

SECTION III - PHYSICAL DATA

Boiling Point (deg C): 85	Specific Gravity (H₂O = 1): 0.936
Vapour Pressure (mm Hg): Not available	Percent Volatile (Wt %, 1 h @ 105 °C): 99.8
Vapour Density (Air = 1): Not available	Evaporation Rate (BuAc = 1): Not available
Solubility in Water: Complete	pH (as supplied): 10.5
Physical State: Liquid	Viscosity: Water thin
Appearance; Odour: Clear blue; alcohol/ammonia	Odour Threshold (ppm): Not available

SECTION IV - FIRE AND EXPLOSION DATA

Flammability: Flammable liquid by WHMIS criteria.
Flash Point (deg C, TCC): 31.5 **LEL:** 2.0 (2-Propanol) **UEL:** 12.7 (2-Propanol)
Hazardous Combustion Products: May include and are not limited to oxides of carbon.
Means of Extinction: Dry chemical, carbon dioxide and alcohol foam.
Special Fire Hazards: Firefighters should wear self-contained breathing apparatus.

SECTION V - REACTIVITY DATA

Conditions for Chemical Instability: Stable.
Incompatible Materials: Strong acids, strong oxidizing agents.
Reactivity, and Under What Conditions: Not available.
Hazardous Decomposition Products: May include and are not limited to oxides of carbon when heated to decomposition.

GLASS CLEANER CONCENTRATE

SECTION VI - TOXICOLOGICAL PROPERTIES

Route of Entry: Eye, Skin contact, Skin absorption, Inhalation, Ingestion

EFFECTS OF ACUTE EXPOSURE:

Eye: May cause irritation.

Skin: May cause irritation. May be absorbed through the skin.

Inhalation (of mist): May cause respiratory tract irritation, coughing and headache. High levels may cause headache, dizziness, nausea, and central nervous system depression.

Ingestion: May cause stomach distress, nausea or vomiting.

EFFECTS OF CHRONIC EXPOSURE:

Skin: Prolonged or repeated exposure can cause drying, defatting and dermatitis. 2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged; may cause blood damage based on published data; these effects have not been observed in humans.

Irritancy: Hazardous by WHMIS criteria.

Respiratory Tract Sensitization: No data available.

Carcinogenicity: Non-hazardous by WHMIS criteria.

Teratogenicity, Mutagenicity, Reproductive Effects: No data available.

Synergistic Materials: Not available.

SECTION VII- PREVENTATIVE MEASURES

Gloves: Neoprene, PVC rubber or butyl. Confirm with reputable supplier first.

Eye Protection: Safety glasses.

Respiratory Protection: Not normally required if good ventilation is maintained.

Other Protective Equipment: As required by employer code.

Engineering Controls: General ventilation normally adequate.

Leak and Spill Procedure: Before attempting cleanup, refer to hazard data given above. Remove sources of ignition. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice.

Waste Disposal: Review federal, provincial and local government requirements prior to disposal.

Storage and Handling Requirements: Keep out of reach of children. Store in closed container away from incompatible materials. Avoid heat, open flame and other sources of ignition in the use and storage of this product.

SECTION VIII - FIRST AID

Eye: Immediately flush with water. Remove contact lenses, if applicable, and continue rinsing for 15 minutes. Obtain medical attention if irritation persists.

Skin: Immediately flush with cool water for 15 minutes while removing contaminated clothing and shoes. Obtain medical attention if irritation persists. Discard or wash well before reuse.

Inhalation: Move victim to fresh air. If symptoms persist, obtain medical attention.

Ingestion: Do not induce vomiting. Rinse mouth with water, then drink one glass of water. Obtain medical attention immediately. Never give anything by mouth if victim is unconscious, is rapidly losing consciousness or is convulsing.

SECTION IX - PREPARATION INFORMATION

Date: 06/01/09

MSDS Prepared By: Kemsol Products Ltd.

Phone Number: (306) 569-0636

Disclaimer

Information for this material safety data sheet was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the mandatory requirements of WHMIS. No warranty, expressed or implied, is made and 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. If user requires independent information on ingredients in this or any other material, we recommend contact with the Canadian Centre for Occupational Health and Safety (CCOHS) in Hamilton, Ontario (1-800-263-8466) or CSST in Montreal, Quebec (514-873-3990).