



Safety Data Sheet

Kemsol Glass Cleaner

SECTION 1. IDENTIFICATION

Product Identifier	Kemsol Glass Cleaner
Recommended Use	Glass Cleaner.
Manufacturer/Supplier Identifier	Kemsol Product Ltd., 1120 McDonald St., Regina, SK, S4N 4X3, 306-569-0636, www.kemsol.com
Emergency Phone No.	Canutec, (613) 996-6666, Collect calls accepted or dial 666 on your cellular
SDS No.	1

SECTION 2. HAZARD IDENTIFICATION

Classified according to Canada's Hazardous Products Regulations (WHMIS 2015).

Classification

Acute toxicity (Oral) - Category 4; Skin irritation - Category 2; Eye irritation - Category 2B

Label Elements



Warning

Causes skin and eye irritation.

Harmful if swallowed.

Combustible liquid.

Wear protective gloves/protective clothing/eye protection/face protection.

IF ON SKIN: Wash with plenty of water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Get medical advice or attention if you feel unwell.

Product Identifier:	Kemsol Glass Cleaner
SDS No.:	1
Date of Preparation:	August 04, 2016

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

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers
2-Propanol	67-63-0	5-10	
2-Butoxyethanol	111-76-2	5-10	

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Move to fresh air. Keep at rest in a position comfortable for breathing.

Skin Contact

Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes.

Eye Contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Ingestion

Rinse mouth with water. Drink 1 or 2 glasses of water. Never give anything by mouth if person is rapidly losing consciousness, or is unconscious or convulsing. Do not induce vomiting.

First-aid Comments

Get medical advice or attention if you feel unwell or are concerned.

Most Important Symptoms and Effects, Acute and Delayed

Review Section 11 (Toxicological) of this Safety Data Sheet.

Immediate Medical Attention and Special Treatment

Special Instructions

Treat Symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Carbon dioxide, dry chemical powder or appropriate foam.

Specific Hazards Arising from the Product

Product Identifier: Kemsol Glass Cleaner

SDS No.: 1

Date of Preparation: August 04, 2016

See Section 9 (Physical and Chemical Properties) for flash point and explosive limits.

Special Protective Equipment and Precautions for Fire-fighters

Fire-fighters may enter the area if positive pressure SCBA and full Bunker Gear is worn.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Use the personal protective equipment recommended in Section 8 of this safety data sheet.

Environmental Precautions

Do not allow into any sewer, on the ground or into any waterway.

Methods and Materials for Containment and Cleaning Up

Review Section 7 (Handling) of this safety data sheet before proceeding with clean-up. Small spills or leaks: contain and soak up spill with absorbent that does not react with spilled product. Place used absorbent into suitable, covered, labelled containers for disposal. Large spills or leaks: dike spilled product to prevent runoff. Review Section 13 (Disposal Considerations) of this safety data sheet.

Other Information

Report spills to local health, safety and environmental authorities, as required.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Prevent accidental contact with incompatible chemicals. Wear personal protective equipment to avoid direct contact with this chemical. Keep containers tightly closed when not in use or empty.

Conditions for Safe Storage

Separate from incompatible materials (see Section 10: Stability and Reactivity). Store in the original, labelled, shipping container. Comply with all applicable health and safety regulations, fire and building codes.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
2-Propanol	Not established		Not established			
2-Butoxyethanol	20 ppm A3		25 ppm Skin			

Appropriate Engineering Controls

Product Identifier: Kemsol Glass Cleaner
SDS No.: 1
Date of Preparation: August 04, 2016

The hazard potential of this product is relatively low. General ventilation is usually adequate.

Individual Protection Measures

Eye/Face Protection

Wear chemical safety goggles.

Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots.

Respiratory Protection

Wear a NIOSH approved particulate respirator equipped with an N95, R95, or P95 filter.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Clear green liquid.
Odour	Ammonia-like
pH	11.10
Initial Boiling Point/Range	85 °C
Flash Point	66 °C (closed cup)
Flammability (solid, gas)	Not applicable (liquid).
Upper/Lower Flammability or Explosive Limit	12.7% (2-Propanol) (upper); 2.0% (2-Propanol) (lower)
Vapour Pressure	Not available
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	0.99
Solubility	Soluble in water
Other Information	
Physical State	Liquid

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions of use.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

Conditions to Avoid

Product Identifier: Kemsol Glass Cleaner
SDS No.: 1
Date of Preparation: August 04, 2016

Freezing. Incompatible materials. Open flames, sparks, static discharge, heat and other ignition sources.

Incompatible Materials

Strong acids (e.g. hydrochloric acid), oxidizing agents (e.g. peroxides). Caustics.

Hazardous Decomposition Products

Carbon oxides, oxides of phosphorus other unidentified organic compounds.

SECTION 11. TOXICOLOGICAL INFORMATION

Information presented below is for the entire product, unless otherwise specified.

Likely Routes of Exposure

Inhalation; skin contact; skin absorption; eye contact; ingestion.

Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
2-Propanol	> 2040 mg/m ³ (rat) (4-hour exposure)	2575 mg/kg (male rat)	
2-Butoxyethanol	925 ppm (rat) (4-hour exposure)	530 mg/kg (female rat)	

Skin Corrosion/Irritation

Human experience shows moderate or severe irritation.

Serious Eye Damage/Irritation

Causes serious eye irritation based on skin irritation information.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

May cause nose and throat irritation.

Skin Absorption

Prolonged or repeated exposure can cause drying, defatting and dermatitis.

Ingestion

Symptoms may include nausea, vomiting, stomach cramps and diarrhea.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

Effects similar to STOT (Specific Target Organ Toxicity) - Single Exposure, as described above.

Respiratory and/or Skin Sensitization

Not a respiratory sensitizer. Not a skin sensitizer.

Carcinogenicity

Product Identifier: Kemsol Glass Cleaner

SDS No.: 1

Date of Preparation: August 04, 2016

Chemical Name	IARC	ACGIH®	NTP	OSHA
2-Propanol	Not Listed	Not designated	Not Listed	Not Listed
2-Butoxyethanol	Group 3	A3	Not Listed	Not Listed

IARC. (2-Propanol) Group 3 – Not classifiable as to its carcinogenicity to humans. (2-Butoxyethanol) Group 3 – Not classifiable as to its carcinogenicity to humans. ACGIH®. (2-Butoxyethanol) A3 – Confirmed animal carcinogen. (2-Propanol) A4 – Not classifiable as a human carcinogen.

No information was located for: Development of Offspring, Sexual Function and Fertility, Effects on or via Lactation, Germ Cell Mutagenicity, Interactive Effects

SECTION 12. ECOLOGICAL INFORMATION

Environmental information was not located.

Ecotoxicity

No data is available on the product itself. It is good practice to prevent releases into the environment.

Persistence and Degradability

No information was located.

Bioaccumulative Potential

No information was located.

Mobility in Soil

No information was located.

Other Adverse Effects

There is no information available.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

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

SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
Canadian TDG	1219	2-Propanol	3	II

Environmental Hazards Environmentally Hazardous Substance (2-Propanol)

Product Identifier: Kemsol Glass Cleaner

SDS No.: 1

Page 06 of 08

Date of Preparation: August 04, 2016

Special Precautions Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

WHMIS 1988 Classification

B3 - Combustible Liquid; D2B - Toxic (Skin irritant; Eye irritant)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by the Controlled Products Regulations.

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL/NDSL.

CEPA - National Pollutant Release Inventory (NPRI)

(2-Butoxyethanol) Part 1A, Part 5. (2-Propanol) Part 1A, Part 5.

USA

Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

SECTION 16. OTHER INFORMATION

NFPA Rating **Health - 2** **Flammability - 2** **Instability - 0**

SDS Prepared By Kemsol Products Ltd.

Phone No. 1-800-667-8113

Date of Preparation August 04, 2016

Key to Abbreviations ACGIH® = American Conference of Governmental Industrial Hygienists
AIHA® = AIHA® Guideline Foundation. HSDB® = Hazardous Substances Data Bank
IARC = International Agency for Research on Cancer
NFPA = National Fire Prevention Association
NIOSH = National Institute for Occupational Safety and Health
NTP = National Toxicology Program
OSHA = US Occupational Safety and Health Administration
RTECS® = Registry of Toxic Effects of Chemical Substances

References CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS).

Disclaimer Information for this SDS was obtained from sources considered technically accurate and reliable. While every effort has been made to insure full disclosure of product hazards, in some

Product Identifier: Kemsol Glass Cleaner

SDS No.: 1

Date of Preparation: August 04, 2016

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 GHS/WHMIS 2015. 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.

Product Identifier: Kemsol Glass Cleaner
SDS No.: 1
Date of Preparation: August 04, 2016

Page 08 of 08