



G.K. Chemical Specialties Co. Inc.  
90 Barbados Blvd.  
Scarborough, Ontario M1J 1K9  
Tel: (416) 261-7182 Fax: (416) 261-5663

## SAFETY DATA SHEET (SDS)

<b>PRODUCT NAME:</b> G.K. GLASS CLEANER	
<b>HEALTH HAZARD RATING:</b>	(1)- SLIGHT HAZARD                      NFPA Rating
<b>FLAMMABILITY HAZARD RATING:</b>	(0)- MINIMAL HAZARD
<b>REACTIVITY HAZARD RATING:</b>	(0)- MINIMAL HAZARD
<b>PERSONAL PROTECTION:</b>	a ( Safety glasses)
<b>HAZARD ALERT SIGN:</b>	NONE REQUIRED Not a hazardous product according to Globally Harmonized System (GHS)

<b>SECTION 1 – IDENTIFICATION</b>	
<b>PRODUCT IDENTIFIER</b>	
<b>PRODUCT NAME</b>	G.K. GLASS CLEANER
<b>MANUFACTURER'S NAME AND ADDRESS EMERGENCY PHONE NO.</b>	G.K. Chemical Specialties Co. Inc. 90 Barbados Blvd. Scarborough, Ontario M1J 1K9 (416) 261-7182 / 905 427-7605/ 416-526-4037
<b>SUPPLIER'S NAME AND ADDRESS EMERGENCY PHONE NO.</b>	
<b>CHEMICAL NAME</b>	N/A
<b>CHEMICAL FAMILY</b>	N/A
<b>TRADE NAME AND SYNONYMS</b>	N/A
<b>MATERIAL USE</b>	HARD SURFACE CLEANER, GLASS

G.K. Chemical Specialties Co. Inc. has compiled the information and recommendations contained in this Safety Data Sheet from sources believed to be reliable and to represent the most reasonable current opinion on the subject when the SDS was prepared. Although reasonable precautions have been taken in the preparation of the data contained herein, it is offered solely for your information, consideration and investigation.

G.K. Chemical Specialties Co. Inc. extends no warranty and assumes no responsibility as to the accuracy of the content or sufficiency of the information and expressly disclaims all liability for reliance thereon. This SDS provides guidelines for the safe handling of this product. It does not and cannot advise on all possible situations, therefore, your specific use of this product should be evaluated to determine if additional precautions are required. Individuals exposed to this product should read and understand this information and be provided pertinent training prior to working with this product.

G.K. Chemical Specialties Co. Inc. assumes no responsibility for personal injury or property damage to vendors, users or third parties caused by the material. Such vendors or users assume all risks associated with the use of the material.

INGREDIENTS. This SDS, under section of Ingredients, contains all ingredients listed under INGREDIENT DISCLOSURE LIST P.C. 1987-2719, 20/1/88 CANADA GAZETTE PART II VOL. 122, No 2 of HAZARDOUS PRODUCT ACT.

Percentage range of concentration of ingredients is expressed as percentage by weight of the total weight of the product. Ingredient List does not necessarily list all ingredients in the formulation and does not necessarily list all ingredient range of concentration, other than ingredients under the Disclosure List.

T.L.V. (units) or Threshold Limit Values refer to the limiting concentrations recommended by the Ministry of Labour. These values were adopted by the American Conference of Governmental Industrial Hygienists (A.C.G.I.H.). The figures refer to time-weighted average concentrations as P.P.M. (V/V) or mg/m<sup>3</sup> for a normal working day or at any time for some materials.

"C.A.S REG. No." means the identification number assigned to a chemical substance by the Chemical Abstracts Service Division of the American Chemical Society.

"LC 50" means the concentration of a substance in air that when administered by means of inhalation over a specified length of time in an animal assay, is expected to cause the death of 50 per cent of a defined animal population.

"LD 50" means the single dose of a substance that, when administered by a defined route in an animal assay, is expected to cause death of 50 per cent of a defined animal population.

FLASH POINT. The minimum temperature at which a substance gives off flammable vapors which in contact with spark or flame will ignite.

NIOSH- National institute for occupational safety and health

STEL- Short term exposure limit

TWA- Time-weighted average

PEL- Permissible exposure limit

ACGIH- American conference of governmental industrial hygienist

OSHA- Occupational safety and health act

**SECTION 2 – HAZARD IDENTIFICATION****Not a hazardous product according to Globally Harmonized System (GHS)**

This product does not contain hazardous chemicals at or above a reportable level as defined by OSHA 29 CFR 1910,1200 or Canadian Controlled Products Regulations

May cause eye irritation but no specific risk when handled in accordance with safety practice.  
May be harmful if swallowed.

**WHMIS CLASSIFICATION: Class D,2B**

**SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS**

HAZARDOUS INGREDIENTS	APPROXIMATE CONCENTRATION %	C.A.S., N.A. OR U.N. NUMBERS	LD50 {SPECIFY SPECIES & ROUTE}	LC 50 {SPECIFY SPECIES & ROUTE}
Propylene glycol n-Butyl Ether	2 - 5	5131-66-8	Oral(Rat): >2,124 mg/kg Dermal (Rat):>2,000mg/kg	
Propylene glycol Phenyl Ether	< 1	770-35-4	Oral(Rat): >2,000 mg/kg Dermal (Rat):>2,000mg/kg	
Tetrasodium Ethylenediamine Tetraacetate	<1	68-04-2	Oral (Rat): 3,030 mg/kg Dermal(Rabbit):>5000mg/kg	
D-Glucopyranose, oligomeric, decyl octyl Glycoside	< 1	68515-73-1	Oral(Rat): >3,000 mg/kg Dermal(Rabbit):>5000mg/kg	
Water, inert & other non-hazardous	Balance			

**SECTION 4 – FIRST AID MEASURES**

<b>SKIN CONTACT</b>	No known significant effects or critical hazards. Prolonged or repeated contact may cause dry skin to some persons. In case of skin contact: Rinse with water
<b>EYE CONTACT</b>	Immediately hold eyelids open and flush with water for at least 15 minutes. Seek medical attention.
<b>INHALATION</b>	No known significant effects or critical hazards
<b>INGESTION</b>	May be harmful if swallowed. May cause irritation to mouth, throat and stomach. May cause abdominal discomfort. If ingested rinse mouth with water. Do not induce vomiting. Drink 1 or 2 glasses of water. Seek immediate medical attention. Never give anything by mouth to an unconscious or convulsing person. If vomiting occur spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.
<b>NOTES TO PHYSICIAN</b>	Treatment based on sound judgment of physician and individual reaction of patient.

<b>SECTION 5 – FIRE-FIGHTING MEASURES</b>	
<b>FLASH POINT ( °C)</b>	Not flammable
<b>FLASH POINT METHOD</b>	Not applicable
<b>AUTOIGNITION TEMPERATURE ( °C )</b>	Not applicable
<b>UPPER FLAMMABLE LIMIT ( % VOL.)</b>	Not applicable
<b>LOWER FLAMMABLE LIMIT ( % VOL. )</b>	Not applicable
<b>HAZARDOUS COMBUSTION PRODUCTS</b>	Carbon Dioxide ( CO <sub>2</sub> ), Carbon monoxide (CO).
<b>UNUSUAL FIRE/ EXPLOSION HAZARDS</b>	None known
<b>SENSITIVITY TO MECHANICAL IMPACT</b>	Not sensitive
<b>SENSITIVITY TO STATIC DISCHARGE</b>	Not sensitive
<b>EXTINGUISHING MEDIA</b>	Water spray, foam, dry powder or Carbon Dioxide. Use media appropriate for surrounding fire
<b>SPECIAL FIRE FIGHTING PROCEDURES</b>	Fire fighters should wear full protective clothing, including self-contained breathing equipment

<b>SECTION 6 – ACCIDENTAL RELEASE MEASURES</b>	
<b>LEAK AND SPILL PROCEDURE</b>	Stop leak. Move containers from spill area. Dilute with water and mop up.
<b>ENVIRONMENTAL PRECAUTIONARY</b>	Prevent entry into sewers or streams.
<b>PERSONAL PRECAUTIONARY MEASURES</b>	Wear protective clothing during cleanup

<b>SECTION 7 – HANDLING AND STORAGE</b>	
<b>HANDLING PROCETURES</b>	Avoid contact with eyes. Avoid ingestion. Use good industrial hygiene practices in handling this product. Keep container closed when not in use.
<b>STORAGE NEEDS</b>	Keep container tightly closed. Store in a cool area. Keep out of reach of children.

<b>SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION</b>	
<b>VENTILATION REQUIREMENTS</b>	General ventilation is recommended.
<b>PROTECTIVE EQUIPMENT</b>	Ensure that eyewash stations are proximal to the work-station location
<b>EYE/TYPE</b>	Safety glasses
<b>RESPIRATORY/TYPE</b>	None required
<b>GLOVE/TYPE</b>	None required
<b>FOOTWEAR/TYPE</b>	No special footwear is required
<b>BODY/TYPE</b>	No special protective clothing is required

<b>SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES</b>	
APPEARANCE – PHYSICAL STATE	Clear blue liquid
ODOUR	Very mild ether
ODOUR THRESHOLD (PPM)	Not available
PH	9.20 ±0.50 in water
MELTING POINT ( °C)	Not applicable
BOILING POINT ( °C )	100°C
FREEZING POINT ( °C )	0°C
EVAPORATION RATE	As water
FLAMMABILITY	Not applicable
FLASH POINT ( °C)	Not applicable
AUTO IGNITION TEMPERATURE	Not applicable
DECOMPOSITION TEMPERATURE	Not available
VAPOUR DENSITY	17.3 gm / m <sup>3</sup> @ 20 <sup>o</sup> C (68 <sup>o</sup> F)
VAPOUR PRESSURE	17.3 mmHg @ 20°C (68°F)
SOLUBILITY	Soluble in water
VISCOSITY	Thin liquid
% VOLATILE BY VOLUME	99 ± 0.5
SPECIFIC GRAVITY	1.00 ± 0.01 gm / cm <sup>3</sup>

<b>SECTION 10 – STABILITY AND REACTIVITY</b>	
REACTIVITY	The product is stable
CHEMICAL STABILITY	Stable
POSSIBILITY OF HAZARDOUS REACTIONS	Not applicable
CONDITIONS TO AVOID	No specific data
INCOMPATIBLE MATERIALS	Strong acids, strong oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon Dioxide (CO <sub>2</sub> ), Carbon Monoxide (CO)

<b>SECTION 11 –TOXICOLOGICAL INFORMATION</b>	
TOXICITY EFFECTS ON ANIMALS	<p><b>For Propylene glycol n-Butyl ether (5131-66-8):</b> Acute Oral Toxicity LD50 (Rat): &gt;2,124 mg/kg. Acute dermal toxicity: LD50 (Rat)&gt; 2,000 mg/kg.</p> <p><b>For Propylene glycol Phenyl ether (770-35-4):</b> Acute Oral Toxicity (Rat): &gt;2,000 mg/kg, Acute Dermal LD50 (Rat) &gt;2,000 mg/kg.</p> <p><b>For Tetrasodium Ethylenediamine Tetraacetate (68-04-2):</b> Acute Oral Toxicity LD50 Oral (Rat): 3,030 mg/kg. Acute Dermal Toxicity LD50 (Rabbit):&gt;5000 mg/kg.</p> <p><b>For D-Glucopyranose, oligomeric, decyl octyl Glycosite (68515-73-1):</b> Acute Oral Toxicity LD50 Oral (Rat): &gt;3,000 mg/kg. Acute Dermal LD50 (Rabbit): &gt;5,000 mg/kg.</p>

<b>TOXIC EFFECTS ON HUMANS</b>	May cause mild irritation of eyes
<b>CHRONIC EFFECTS ON HUMANS</b>	No known significant effects
<b>CARCINOGENICITY</b>	No evidence
<b>TERATOGENICITY</b>	No evidence
<b>MUTAGENICITY</b>	No evidence
<b>REPRODUCTIVE EFFECTS</b>	No evidence

<b>SECTION 12 –ECOLOGICAL INFORMATION</b>	
<b>ECOTOXICITY DATA</b>	<p><b>For Propylene glycol n-Butyl ether (5131-66-8):</b> In most sensitive species tested material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50 is &gt;100 mg/L). Fish Acute &amp; Prolonged Toxicity- LC50, Guppy (Poecilia reticulata): 560-1,000 mg / L /96 h. Acute Toxicity Aquatic invertebrates: EC50 , water flea (Daphnia magna): &gt;1,000 mg /L /96h. Ingredient is readily BIODEGRADABLE</p> <p><b>For Propylene glycol phenyl ether (770-35-4):</b> In most sensitive species tested material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50 is &gt;100 mg /L). Fish Acute &amp; Prolonged Toxicity, LC50 fathead minnow (Pimephales promelas): &gt;280 mg/ L/ 96 h./static test. Aquatic Invertebrate Acute Toxicity LC50 Daphnia magna (water flea): 370 mg /L / 48 h / static test. Aquatic Plant Toxicity, EC50 Green algae (Desmodesmus subspicatus): &gt;100 mg / L /72 h/ static test. Ingredient is readily BIODEGRADABLE, which suggests the chemical will be rapidly and completely removed from water and soil environments, including biological wastewater treatment plants.</p> <p><b>For Tetrasodium ethylenediamine Tetraacetate (64-02-8):</b> Material is practically non-toxic to fish on an acute basis toxicity to fish: Acute Toxicity to fish LC50, Bluegill sunfish (Lepomis macrochirus): 1,592 mg / L /96 h. / static test. Aquatic Invertebrate Acute Toxicity, LC50 water flea (Daphnia magna): 610- 1,033 mg / L /24 h, immobilization.</p> <p><b>For D-Glucopyranose, oligomeric, decyl octyl glycoside (68515-73-1):</b> Acute Toxicity to aquatic invertebrates, EC50, Daphnia magna (water flea): 150 mg /L / 48h/ static test. Acute Toxicity to algae/ aquatic plants, EC50: 10-100 mg / L / 72 h Ingredient is readily BIODEGRADABLE.</p>
<b>BIODEGRADABILITY</b>	READILY BIODEGRADABLE
<b>PRODUCTS OF DEGRADATION</b>	No data available

<b>SECTION 13 – DISPOSAL CONSIDERATIONS</b>	
<b>WASTE DISPOSAL</b>	Disposal of all wastes must be done in accordance with municipal, provincial and federal regulations
<b>INFORMATION ON SAFE HANDLING FOR DISPOSAL INCLUDING ANY CONTAMINATED PACKAGING</b>	Suitable waste facility

<b>SECTION 14 – TRANSPORT INFORMATION</b>	
<b>UN NUMBER</b>	Not applicable
<b>UN PROPER SHIPPING NAME</b>	Not applicable
<b>TRANSPORT HAZARD CLASS</b>	Not regulated
<b>PACKAGING GROUP</b>	Not applicable
<b>ENVIRONMENTAL HAZARDS</b>	Nil
<b>TRANSPORT IN BULK, if applicable</b>	Not applicable
<b>SPECIAL PRECAUTIONS</b>	NIL

<b>SECTION 15 – REGULATORY INFORMATION</b>	
<b>SAFETY HEALTH &amp; ENVIRONMENTAL REGULATIONS SPECIFIC TO THE PRODUCT</b>	<p>U.S. TSCA inventory Status: All components of this product are either on the Toxic Substances Control Act (TSCA) INVENTORY List or exempt.</p> <p>Canadian DSL Inventory Status: All components of this product are either on the Domestic Substances List (DSL) or the Non-Domestic Substances List (NDSL) or exempt.</p>

<b>SECTION 16 – OTHER INFORMATION</b>	
<b>PREPARED BY:</b>	Gus Kaklamanos - Chemist
<b>TELEPHONE NO.:</b>	416-261-7182
<b>DATE OF THE LATEST REVISION OF SDS:</b>	October 2, 2017