




G.K. Chemical Specialties Co. Inc.
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SAFETY DATA SHEET (SDS)

PRODUCT NAME: G.K. GLASS CLEANER CONCENTRATE 5:1	
HEALTH HAZARD RATING:	(1)- SLIGHT HAZARD NFPA Rating
FLAMMABILITY HAZARD RATING:	(0)- MINIMAL HAZARD
REACTIVITY HAZARD RATING:	(0)- MINIMAL HAZARD
PERSONAL PROTECTION:	a (Safety glasses)
HAZARD ALERT SIGN:	

SECTION 1 – IDENTIFICATION	
PRODUCT IDENTIFIER	
PRODUCT NAME	G.K. GLASS CLEANER CONCENTRATE 5:1
MANUFACTURER'S NAME AND ADDRESS EMERGENCY PHONE NO.	G.K. Chemical Specialties Co. Inc. 90 Barbados Blvd. Scarborough, Ontario M1J 1K9 (416) 261-7182 / 905 427-7605/ 416-526-4037
SUPPLIER'S NAME AND ADDRESS EMERGENCY PHONE NO.	
CHEMICAL NAME	N/A
CHEMICAL FAMILY	N/A
TRADE NAME AND SYNONYMS	N/A
MATERIAL USE	HARD SURFACE CLEANER

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/m³ 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

Dangerous goods: WHMIS CLASSIFICATION: **Class D,2B**
OSHA HAZARDS: Irritant

GHS CLASSIFICATION (Product as sold)

Eye Irritation- Category 2A

GHS Label Elements, including precautionary statements: Hazard Statements

Signal word- DANGER

HAZARD STATEMENTS

H320- Causes eye irritation

H316- Causes mild skin irritation

H302- Harmful if swallowed

PREVENTION (see also section 4-First aid and measures)

P280: Wear protective gloves and eye protection

P264: Wash skin thoroughly after handling

P270: Do not eat, drink or smoke when using this product

P405: Store locked up

RESPONSE:

P305 + P351 + P338- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313: If eye irritation persists: Get medical advice / attention

P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor / physician

P301 + P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

POTENTIAL HEALTH EFFECTS

EYE: May cause irritation

SKIN: May cause mild skin irritation

INGESTION: May be harmful if swallowed



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	7 - 15	5131-66-8	Oral(Rat): >2,124 mg/kg Dermal (Rat):>2,000mg/kg	
Propylene glycol Phenyl Ether	1 - 3	770-35-4	Oral(Rat): >2,000 mg/kg Dermal (Rat):>2,000mg/kg	
Tetrasodium Ethylenediamine Tetraacetate	1 - 3	68-04-2	Oral (Rat): 3,030 mg/kg Dermal(Rabbit):>5000mg/kg	
D-Glucopyranose, oligomeric, decyl octyl Glycoside	3 - 7	68515-73-1	Oral(Rat): >3,000 mg/kg Dermal(Rabbit):>5000mg/kg	
Water, inert & other non-hazardous	Balance			

SECTION 4 – FIRST AID MEASURES	
SKIN CONTACT	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
EYE CONTACT	Immediately hold eyelids open and flush with water for at least 15 minutes. Seek medical attention.
INHALATION	No known significant effects or critical hazards
INGESTION	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.
NOTES TO PHYSICIAN	Treatment based on sound judgment of physician and individual reaction of patient.

SECTION 5 – FIRE-FIGHTING MEASURES	
FLASH POINT (°C)	63° C (145° F) for Propylene glycol n-Butyl Ether
FLASH POINT METHOD	Closed cup
AUTOIGNITION TEMPERATURE (°C)	260° C (500° F)
UPPER FLAMMABLE LIMIT (% VOL.)	8.4
LOWER FLAMMABLE LIMIT (% VOL.)	1.1
HAZARDOUS COMBUSTION PRODUCTS	Carbon Dioxide (CO ₂), Carbon monoxide (CO).
UNUSUAL FIRE/ EXPLOSION HAZARDS	None known
SENSITIVITY TO MECHANICAL IMPACT	Not sensitive

SENSITIVITY TO STATIC DISCHARGE	Not sensitive
EXTINGUISHING MEDIA	Water spray, foam, dry powder or Carbon Dioxide. Use media appropriate for surrounding fire
SPECIAL FIRE FIGHTING PROCEDURES	Fire fighters should wear full protective clothing, including self-contained breathing equipment

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

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

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

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES	
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	Propylene glycol n-butyl ether and propylene glycol phenyl ether are combustible
FLASH POINT (°C)	63°C (145° F) for Propylene glycol n-butyl ether
AUTO IGNITION TEMPERATURE	260°C (500° F) for Propylene glycol n- butyl ether
DECOMPOSITION TEMPERATURE	Not available
VAPOUR DENSITY	17.3 gm / m ³ @ 20° C (68° F)
VAPOUR PRESSURE	17.3 mmHg @ 20°C (68°F)
SOLUBILITY	Soluble in water

VISCOSITY	Thin liquid
% VOLATILE BY VOLUME	95.5 ± 0.5
SPECIFIC GRAVITY	0.97 ± 0.02 gm / cm ³

SECTION 10 – STABILITY AND REACTIVITY	
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 ₂), Carbon Monoxide (CO)

SECTION 11 –TOXICOLOGICAL INFORMATION	
TOXICITY EFFECTS ON ANIMALS	<p>For Propylene glycol n-Butyl ether (5131-66-8): Acute oral toxicity LD50 (Rat): >2,124 mg/kg. Acute dermal toxicity: LD50 (Rat) > 2,000 mg/kg.</p> <p>For Propylene glycol Phenyl ether (770-35-4): Acute oral toxicity (Rat): >2,000 mg/kg, Acute dermal (Rat) >2,000 mg/kg.</p> <p>For Tetrasodium Ethylenediamine Tetraacetate (68-04-2): Acute oral toxicity LD50 Oral (Rat): 3,030 mg/kg. Acute dermal (Rabbit): >5,000 mg/kg.</p> <p>For D-Glucopyranose, oligomeric, decyl octyl Glycosite (68515-73-1): Acute oral toxicity LD50 Oral (Rat): >3,000 mg/kg. Acute dermal LD50 (Rabbit): >5,000 mg/kg.</p>
TOXIC EFFECTS ON HUMANS	May cause irritation of eyes
CHRONIC EFFECTS ON HUMANS	No known significant effects
CARCINOGENICITY	No evidence
TERATOGENICITY	No evidence
MUTAGENICITY	No evidence
REPRODUCTIVE EFFECTS	No evidence

SECTION 12 –ECOLOGICAL INFORMATION	
ECOTOXICITY DATA	<p>For Propylene glycol n-Butyl ether (5131-66-8): In most sensitive species tested material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50 is >100 mg/L). Fish Acute & Prolonged Toxicity- LC50, Guppy (Poecilia reticulata): 560-1,000 mg / L /96 h. Acute Toxicity Aquatic invertebrates: EC50, water flea (Daphnia magna): >1,000 mg /L /96h. Ingredient is readily BIODEGRADABLE</p> <p>For Propylene glycol phenyl ether (770-35-4): In most sensitive species tested material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50 is >100 mg /L). Fish Acute & Prolonged Toxicity, LC50 fathead minnow (Pimephales promelas): >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): >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</p>

	<p>biological wastewater treatment plants.</p> <p>For Tetrasodium ethylenediamine Tetraacetate (64-02-8): Material is practically non-toxic to fish on an acute basis toxicity to fish: Acute Toxicity to fish LC50, Bluegill sunfish (<i>Lepomis macrochirus</i>): 1,592 mg / L /96 h. / static test. Aquatic Invertebrate Acute Toxicity, LC50 water flea (<i>Daphnia magna</i>): 610- 1,033 mg / L /24 h, immobilization.</p> <p>For D-Glucopyranose, oligomeric, decyl octyl glycoside (68515-73-1): Acute Toxicity to aquatic invertebrates, EC50, <i>Daphnia magna</i> (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>
BIODEGRADABILITY	READILY BIODEGRADABLE
PRODUCTS OF DEGRADATION	No data available

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

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

SECTION 15 – REGULATORY INFORMATION	
SAFETY HEALTH & ENVIRONMENTAL REGULATIONS SPECIFIC TO THE PRODUCT	<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>

SECTION 16 – OTHER INFORMATION	
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TELEPHONE NO.:	416-261-7182
DATE OF THE LATEST REVISION OF SDS:	Feb. 6, 2018