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)

PRODUCT NAME: G.K. LIQUID CAR WASH CONCENTRATE	
HEALTH HAZARD RATING:	(1)- SLIGHT HAZARD NFPA Rating
FLAMMABILITY HAZARD RATING:	(0)- MINIMAL HAZARD
REACTIVITY HAZARD RATING:	(0)- MINIMAL HAZARD
PERSONAL PROTECTION:	a (glasses)
HAZARD ALERT SIGN:	

SECTION 1 – **IDENTIFICATION**	
PRODUCT IDENTIFIER	
PRODUCT NAME	G.K. LIQUID CAR WASH CONCENTRATE
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	cleaning

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^3 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:** Hazard Class: D, 2B (Toxic material)
OSHA HAZARDS: Irritant

GHS CLASSIFICATION
Eye irritation- Category 2A
GHS Label Elements, including precautionary statements: Hazard Statements
Signal word-DANGER

HAZARD STATEMENT
H319-Causes serious eye irritation
H302: Harmful if swallowed

PREVENTION (see also section 4 –First aid and measures)
P264: Wash skin thoroughly after handling
P280; Wear eye protection/ face protection

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

POTENTIAL HEALTH EFFECTS
Eye; May cause irritation

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}
Sodium (C10-16) Benzene Sulfonate	3 - 7	68081-81-2	Oral(Rat): >1000 mg/kg Dermal(Rabbit):>2000mg/kg	
Sodium Dodecyl Sulfate	3 - 7	151-21-3	Oral(Rat): 1288 mg/kg Dermal (Rabbit):580 mg/kg	
Cocamidopropyl Betaine	<1	70851-07-9	Oral (Rat): >2335 mg/kg Dermal(Rabbit):>2000mg/kg	
Cocamidopropylamine Oxide	< 1	68155-09-9	Oral(Rat): 4350 mg/kg Dermal(Rabbit):>2000mg/kg	
Lauramine Oxide	< 1	1643-20-5	Oral(Rat): > 1065 mg/kg Dermal(Rabbit):>2000mg/kg	
Cocoamide DEA	< 1	68603-42-9	Oral(Rat): >5000 mg/kg Dermal(Rabbit);>2000mg/kg	
Sodium Sulphate	1 - 3	7757-82-6	Oral(Moose): 5989 mg/kg	
Ethoxylated Lanolin 75 EO	< 1	61790-81-6	Oral(Rat): > 54 mg/kg	
Water, inert and other non -hazardous ingredients	Balance			

SECTION 4 – FIRST AID MEASURES	
SKIN CONTACT	No known significant effects or critical hazards expected
EYE CONTACT	Immediately hold eyelids open and flush with water for at least 15 minutes. Seek medical attention if required
INHALATION	No known significant effects or critical hazards
INGESTION	May be harmful if swallowed. 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. If swallowed Symptoms may include nausea, vomiting and diarrhea

SECTION 5 – FIRE-FIGHTING MEASURES	
FLASH POINT (^{0}C)	Not flammable
FLASH POINT METHOD	Not applicable
AUTOIGNITION TEMPERATURE (^{0}C)	Not applicable
UPPER FLAMMABLE LIMIT (% VOL.)	Not applicable
LOWER FLAMMABLE LIMIT (% VOL.)	Not applicable
HAZARDOUS COMBUSTION PRODUCTS	Carbon Dioxide (CO_2), Carbon monoxide, Halogenated compounds, Nitrogen Oxides and oxides of Sulphur.
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. Material can create slippery conditions. Use non-slip safety shoes in areas where spills or leaks can occur
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. Keep away from children. Do not store in unlabeled containers. Do not store with strong oxidizing agents.

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	None required
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 Green liquid
ODOUR	Pleasant aroma
ODOUR THRESHOLD (PPM)	Not available
PH	7.80 ±0.50 in water
MELTING POINT (^{0}C)	Not applicable
BOILING POINT (^{0}C)	100^{0}C
FREEZING POINT (^{0}C)	0^{0}C
EVAPORATION RATE	As water
FLAMMABILITY	Not applicable
FLASH POINT (^{0}C)	Not applicable
AUTO IGNITION TEMPERATURE	Not applicable
DECOMPOSITION TEMPERATURE	Not available
VAPOUR DENSITY	Not applicable
VAPOUR PRESSURE	Not applicable
SOLUBILITY	Soluble in water
VISCOSITY	Viscous liquid
% VOLATILE BY VOLUME	88 ± 1
SPECIFIC GRAVITY	1.01 ± 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 Oxidizing agents
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon Dioxide ($C0_2$), Carbon Monoxide, Nitrogen compounds, Halogenated compounds, Oxides of Sulphur

SECTION 11 –TOXICOLOGICAL INFORMATION	
TOXICITY EFFECTS ON ANIMALS	**For Sodium (C10-16) Benzene Sulfonate (68081-81-2):** Acute Oral toxicity LD50 (Rat): >1000 mg/kg, LD50 Dermal (Rabbit):>2,000 mg/kg . **For Sodium Dodecyl Sulfate (151-21-3):** Acute Oral toxicity LD50 (Rat):1288 mg /kg, LD50 Dermal (Rabbit): 580 mg/kg. **For Cocamidopropyl Betaine (70851-07-9):** Acute Oral toxicity LD50 (Rat):>2335 mg/kg. LD50 Dermal (Rabbit): >2,000 mg/kg.

	For Cocamidopropylamine Oxide (68155-09-0): Acute Oral toxicity LD50 (Rat): 4,350 mg / kg. LD50 Dermal (Rabbit): >2,000 mg/kg. **For Lauramine Oxide (1643-20-5):** Acute Oral toxicity LD50 (Rat): >1,065 mg/kg. LD50 Dermal (Rabbit):>2,000 mg/kg. **For Cocoamide DEA (68603-42-9):** Acute Oral toxicity LD50 (Rat): >5,000 mg/kg. LD50 Dermal (Rabbit): >2,000 mg/kg. **For Sodium Sulphate (7757-82-6):** Acute Oral toxicity LD50 (Moose): 5989 mg/kg. **For Ethoxylated Lanolin 75 EO (61790-81-6):** Acute Oral Toxicity LD50 (Rat): 54 mg / kg. **For the mix** estimated Acute Oral Toxicity is much >5,000 mg/kg. Therefore product is classified as non-toxic. Acute Dermal Toxicity for the mix is also estimated to be much >5,000 mg/ kg. Therefore the product is classified as non-toxic
TOXIC EFFECTS ON HUMANS	May cause mild 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	**For Sodium (C10-16) Benzene Sulfonate (68081-81-2):** Acute Toxicity to fish LC50, Fathead minnow (Pimephales Promelas): 1.67 mg / L /96 h. Acute Toxicity Crustacea EC50, Daphnia magna (Water flea): 2.4 mg / L / 48 h. EC50 Algae: 29 mg/ L /96 h. This ingredient is Toxic to aquatic organisms, however it biodegradates very fast. Primary degradation intermediates are Sulfophenyl Carboxylates which further degrades to CO_2, SO_4 and water. Biodegradation intermediates have LC50 > 1,000 mg / L / 96 h for Fathead Minnows and Daphnia magna and are not toxic to aquatic organisms. This ingredient composes the largest portion of the mix. **For Sodium Dodecyl Sulfate (151-21-3):** Acute Toxicity to fish LC50, Pimephales Promelas: 29 mg / L /96 h. Acute Toxicity to aquatic invertebrates LC50, Ceriodaphnia Dubia: 5.5 mg /L /48 h. Acute toxicity to Algae EC50: 60mg /L/72 h. Ingredient readily BIODEGRADABLE **For Cocamidopropyl Betaine (70851-07-9):** Acute Toxicity to fish LC50: 1.75 - 10 mg /L**/ 96 h.** Acute Toxicity to Crustacea EC50, Daphnia magna (Water flea): 1.9 mg /L / 48 h. Acute Toxicity to Algae EC50: 2.4 mg /L /72 h. Ingredient readily BIODEGRADABLE **For Cocamidopropylamine Oxide (68155-09-9):** Acute Toxicity to fish LC50: 2.3 mg /L / 96 h. Acute Toxicity to Crustacea EC50, Daphnia Magna (Water flea): 2.9 mg /L /48 h. Acute Toxicity to Algae EC50: 7 mg /L 72 h. Ingredient 98.44 % readily-20 days BIODEGRADABLE, 46.88 % 5 days. **For Lauramine Oxide (1643-20-5):** Acute Toxicity to fish LC50: 2.67 mg / L /96h. Acute Toxicity to Crustacea EC50, Daphnia magna (Water flea): 3.1 mg /L /48h. Acute Toxicity to Algae EC50: 0.19 mg /L /72 h. Ingredient readily BIODEGRADABLE

	For Cocoamide DEA (68603-42-9): Acute Toxicity to fish LC50 (Zebra fish): 6.7 mg /L /96 h /static-renewal. Acute Toxicity to aquatic invertebrates EC50 Daphnia magna (Water flea): 3.3 mg / L / 24 h static. Ingredient readily BIODEGRADABLE **For Sodium Sulphate (7757-82-6):** Acute Toxicity to fish LC50 Pimephales promelas (Fathead minnow): 13,500-14,500 mg /L / 96 h. LC50 , Bluegill/ Sunfish: 3040-4380 mg /L / 96 h. Acute Toxicity to aquatic invertebrates EC50 Daphnia magna (Water flea): 4547 mg / L /96 h. Ingredient Non-toxic. Persistence and Degradability: Soluble in water and Persistence is unlikely based on information available **For Ethoxylated Lanolin 75 EO (61790-81-6):** No data found for this product
BIODEGRADABILITY	Readily biodegradable
PRODUCTS OF DEGRADATION	Mostly Sulfophenyl Carboxylates, CO_2 SO_4

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	U.S. TSCA inventory Status: All components of this product are either on the Toxic Substances Control Act (TSCA) INVENTORY List or exempt. 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.

SECTION 16 – OTHER INFORMATION	
PREPARED BY:	Gus Kaklamanos - Chemist
TELEPHONE NO.:	416-261-7182
DATE OF THE LATEST REVISION OF SDS:	August 25, 2021