






G.K. Chemical Specialties Co. Inc.  
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Tel: (416) 261-7182 Fax: (416) 261-5663

## SAFETY DATA SHEET (SDS)

<b>PRODUCT NAME:</b> G-700 Disinfectant-Cleaner-Sanitizer-Fungicide-Mildewstat-Virucide-Deodorizer	
<b>HEALTH HAZARD RATING:</b>	(3)- SERIOUS HAZARD NFPA Rating
<b>FLAMMABILITY HAZARD RATING:</b>	(0)- MINIMAL HAZARD
<b>REACTIVITY HAZARD RATING:</b>	(0)- MINIMAL HAZARD
<b>PERSONAL PROTECTION:</b>	B (GLASSES, GLOVES)
<b>HAZARD ALERT SIGN:</b>	<div>   Concentrate Ready to use</div>

### SECTION 1 – IDENTIFICATION

<b>PRODUCT IDENTIFIER</b>	
<b>PRODUCT NAME</b>	G-700
<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>	Quaternary Ammonium Chloride Germicidal Detergent
<b>TRADE NAME AND SYNONYMS</b>	G-700
<b>MATERIAL USE</b>	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<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

### Concentrate



Dangerous Goods-**WHMIS**: NOT REGULATED  
OSHA HAZARDS: Irritant

#### **GHS CLASSIFICATION- (Product as Sold)**

Acute Toxicity Oral- Category 4  
Acute Toxicity Dermal- Category 4  
Serious Eye Damage/Eye Irritation- Category 1  
Skin Corrosion/ Irritation- Category 1A

GHS Label Elements, including precautionary statements: Hazard Statements  
**Signal word-DANGER**

#### **HAZARD STATEMENTS**

H318- Causes serious eye damage  
H315-Causes 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  
P303 + P361 +P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water. Shower.  
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:** Will cause irritation  
**SKIN:** May cause skin irritation  
**INGESTION:** May be harmful if swallowed

### At use Dilution



#### **GHS CLASSIFICATION (Product at Use Dilution)**

Acute Toxicity (Dermal)- Category 5  
Eye Irritation- Category 2B

#### **HAZARD STATEMENTS**

H316-Causes mild skin irritation  
H320- Causes eye irritation

#### **PREVENTION**

P280: Wear protective gloves and eye protection  
P264: Wash skin thoroughly after handling

### 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}
Quaternary ammonium compounds, di-C8-10-alkyldimethyl, chlorides	4.20 * Note	68424-95-3	Oral (Rat): 455 mg/kg Dermal (Rabbit): 316-650 mg/kg	
Quaternary ammonium compounds, benzyl-C12-C16-alkyldimethyl, chlorides	2.80	68424-85-1	Oral(Rat): 344 mg/kg Dermal (Rabbit): 3,340 mg/kg	
Alcohols, C9-C11, Ethoxylated	3 - 7	68439-46-3	Oral (Rat): 1,400 mg/kg Dermal(Rabbit): >2,000 mg/kg	
Sodium Metasilicate pentahydrate	1 - 3	10213-79-3	Oral (Rat): 1,153 mg/kg Dermal(Rabbit): 250 mg/kg	
Tetrasodium ethylenediamine Tetraacetate (38%)	3 - 7	64-02-8	Oral (Rat): 3,030 mg/kg Dermal (Rabbit): >5,000mg/kg	
Water, Perfume, inert and other non -hazardous ingredients	Balance			
<b>Product at Use Dilution</b> (Based at the highest Dilution for Hospital Disinfection at 8 ml/ litre) <b>will contain</b>  CAS 32426-11-2: 0.0168 % CAS 5538-94-3: 0.0084 % CAS 7173-51-5: 0.0084 % CAS 68424-85-1: 0.0220 % CAS 68439-46-3: 0.0320 % CAS 10213-79-3: 0.0080 % CAS 64-02-8: 0.0486 %			<b>NOTE: CAS 68424-95-3 is a MIXED Dialkyl Dimethyl Ammonium Chloride. 4.20 % is based on:</b> CAS 32426-11-2: Octyl Decyl Dimethyl Ammonium chloride: 2.10 % CAS 5538-94-3: Dioctyl Dimethyl Ammonium Chloride: 1.05 % CAS 7173-51-5: Didecyl Dimethyl Ammonium Chloride: 1.05 %	

### SECTION 4 – FIRST AID MEASURES

<b>SKIN CONTACT</b>	For product as sold contact will cause severe irritation. In case of contact rinse with plenty of water. For product at use dilution contact may cause mild irritation to some people, but no specific risk when handled in accordance with safety practice. In case of contact rinse with plenty water.
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<b>EYE CONTACT</b>	For product as sold contact will cause very serious corneal damage. Immediately hold eyelids open and flush with water for at least 15 minutes. Seek medical attention if required. Product at use dilution can cause mild discomfort. Immediately hold eyelids open and flush with water for at least 15 minutes.
<b>INHALATION</b>	No known significant effects or critical hazards
<b>INGESTION</b>	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. Take container, label or product name and Drug Identification Number with you when seeking medical attention
<b>NOTES TO PHYSICIAN</b>	Treatment based on sound judgment of physician and individual reaction of patient. INGESTION: For product as sold symptoms may include nausea, vomiting and diarrhea. Probable Mucosal damage contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be required. EYE CONTACT: For product as sold symptoms may include stinging, tearing, redness, swelling, blurred vision and serious corneal damage.

## SECTION 5 – FIRE-FIGHTING MEASURES

<b>FLASH POINT ( °C)</b>	Not applicable
<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) and other toxic gasses or vapors
<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. Product does not support combustion.
<b>SPECIAL FIRE FIGHTING PROCEDURES</b>	Fire fighters should wear full protective clothing, including self-contained breathing equipment

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

<b>LEAK AND SPILL PROCEDURE</b>	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
<b>ENVIRONMENTAL PRECAUTIONARY</b>	Prevent entry into sewers or streams. Do not rinse spill onto the ground, into storm sewers or bodies of water.
<b>PERSONAL PRECAUTIONARY MEASURES</b>	Wear protective clothing during cleanup. Avoid contact with skin, eyes or clothing.

<b>SECTION 7 – HANDLING AND STORAGE</b>	
<b>HANDLING PROCETURES</b>	Avoid contact with eyes and skin. Avoid ingestion. Use good industrial hygiene practices in handling this product. Wash thoroughly after handling. Keep container closed when not in use.
<b>STORAGE NEEDS</b>	Keep container tightly closed. Keep away from children. Do not store in unlabeled containers. Do not store with strong oxidizing agents.

<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 with expected use.
<b>GLOVE/TYPE</b>	Nitrile, Vinyl, latex, Butyl impervious gloves
<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>	
<b>APPEARANCE – PHYSICAL STATE</b>	Clear yellow liquid
<b>ODOUR</b>	Lemon scent
<b>ODOUR THRESHOLD (PPM)</b>	Not available
<b>PH</b>	11.55 ±0.50 in water concentrate, 9.45 ± 0.5 2% solution in water
<b>MELTING POINT ( °C)</b>	Not applicable
<b>BOILING POINT ( °C )</b>	100°C
<b>FREEZING POINT ( °C )</b>	0°C
<b>EVAPORATION RATE</b>	As water
<b>FLAMMABILITY</b>	Not applicable
<b>FLASH POINT ( °C)</b>	Not applicable
<b>AUTO IGNITION TEMPERATURE</b>	Not applicable
<b>DECOMPOSITION TEMPERATURE</b>	Not available
<b>VAPOUR DENSITY</b>	17.3 gm / m <sup>3</sup> @ 20 <sup>0</sup> C
<b>VAPOUR PRESSURE</b>	17.54 mmHg @ 20 <sup>0</sup> C
<b>SOLUBILITY</b>	Soluble in water
<b>VISCOSITY</b>	Thin liquid
<b>% VOLATILE BY VOLUME</b>	87 ± 1
<b>SPECIFIC GRAVITY</b>	1.01 ± 0.02 gm / cm <sup>3</sup>

<b>SECTION 10 – STABILITY AND REACTIVITY</b>	
<b>REACTIVITY</b>	The product is stable

<b>CHEMICAL STABILITY</b>	Stable
<b>POSSIBILITY OF HAZARDOUS REACTIONS</b>	Not applicable
<b>CONDITIONS TO AVOID</b>	No specific data
<b>INCOMPATIBLE MATERIALS</b>	Strong Oxidizing agents, Acids, Chlorinated products
<b>HAZARDOUS DECOMPOSITION PRODUCTS</b>	Carbon Dioxide (CO <sub>2</sub> ), Carbon Monoxide (CO), Oxides of Nitrogen

## SECTION 11 –TOXICOLOGICAL INFORMATION

<b>TOXICITY EFFECTS ON ANIMALS</b>	<p><b>For Quaternary ammonium compounds, di-C8-10-Alkyldimethyl, chlorides (68424-95-3):</b> Acute Oral Toxicity LD50 (Rat): 455 mg/kg. Acute Dermal Toxicity LD50 (Rabbit): 316-650 mg /kg</p> <p><b>For Quaternary ammonium compounds, benzyl- C12-C16- Alkyldimethyl, chlorides (68424-85-1):</b> Acute Oral Toxicity LD50 (Rat): 344 mg/kg. Acute Dermal Toxicity LD50 (Rabbit): 3,340 mg/kg.</p> <p><b>For Alcohols, C9-C11, Ethoxylated (68439-46-3):</b> Acute Oral Toxicity LD50 (Rat): 1,400 mg/kg. LD50 Dermal (Rabbit): &gt;2,000 mg/kg.</p> <p><b>For Sodium Metasilicate pentahydrate (10213-79-3):</b> Acute Oral Toxicity LD50 (Rat): 1,153 mg/kg. Acute Dermal Toxicity LD50 (Rabbit): 250 mg/kg.</p> <p><b>For Tetrasodium ethylenediamine tetraacetate (64-02-8):</b> Acute Oral Toxicity LD50 (Rat): 3,030 mg/kg. LD50 Dermal (Rabbit): &gt;5,000 mg/kg</p> <p><b>For the mix</b> estimated Acute Oral Toxicity is much &gt;4,000 mg/kg. Therefore product is classified as non-toxic. Acute Dermal Toxicity for the mix is also estimated to be much &gt;5,000 mg/ kg. Therefore the product is not toxic.</p>
<b>TOXIC EFFECTS ON HUMANS</b>	Product as sold will cause severe irritation of eyes, may cause serious corneal damage. May cause severe skin irritation upon contact. No specific risk for product at use dilution when handled in accordance with safety practice.
<b>CHRONIC EFFECTS ON HUMANS</b>	Prolonged contact with skin may defat tissue causing dermatitis or skin problems.
<b>CARCINOGENICITY</b>	No evidence
<b>TERATOGENICITY</b>	No evidence
<b>MUTAGENICITY</b>	No evidence
<b>REPRODUCTIVE EFFECTS</b>	No evidence

## SECTION 12 –ECOLOGICAL INFORMATION

<b>ECOTOXICITY DATA</b>	<p><b>For Quaternary ammonium compounds, di-C8-10-Alkyldimethyl, Chlorides (68424-95-3):</b> Toxic to aquatic life. Acute Toxicity to fish: LC50, Rainbow trout: 0.93 mg / L / 96 h. Acute Toxicity to aquatic invertebrates EC50 Daphnia magna (Water flea): 0.058 mg /L / 48 h. EC50, Algae: 0.063 mg / L / 96 h. Biodegradability &gt; 99 %.</p> <p><b>For Quaternary ammonium compounds, benzyl-C12-C16- Alkyldimethyl, chlorides (68424-85-1):</b> Toxic to aquatic life. Acute Toxicity to fish: LC50, Fathead minnow (Pimephales promelas): 0.28 mg /L / 96 h. Acute Toxicity to aquatic invertebrates EC50 Daphnia magna (Water flea): &lt;1.00 mg /L / 48 h. Biodegradability &gt;99 %.</p> <p><b>For Alcohols, C9-C11, Ethoxylated (68439-46-3):</b> Acute Toxicity to fish LC50, Fathead minnow (Pimephales promelas): 8.5 mg / L / 96 h. EC50, Daphnia magna (Water flea): 5.3 mg /L / 48 h. Ingredient readily BIODEGRADABLE.</p>
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	<p><b>For Sodium metasilicate pentahydrate (10213-79-3):</b> Acute Toxicity to fish LC50, <i>Gambusia affinis</i> (Mosquito fish): 2320 ppm / 96 h. Acute Toxicity to aquatic invertebrates, EC50, <i>Daphnia magna</i> (Water flea): 247 ppm /96 h. Acute Toxicity to snail eggs (<i>Lymnea</i>): 632 ppm/ 96 h.</p> <p><b>For Tetrasodium ethylenediamine tetraacetate (64-02-8):</b> Acute Toxicity to fish LC50, <i>Lepomis macrochirus</i> (bluegill sunfish): 1,592 mg /L/ 96 h., static test. Acute Toxicity to aquatic invertebrates: EC50, <i>Daphnia magna</i> (Water flea): 610-1,033 mg /L /24 h, immobilization. Ingredient is practically non-toxic to fish.</p>
<b>BIODEGRADABILITY</b>	Readily biodegradable
<b>PRODUCTS OF DEGRADATION</b>	No data available

### SECTION 13 – DISPOSAL CONSIDERATIONS

<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

### SECTION 14 – TRANSPORT INFORMATION

<b>UN NUMBER</b>	1903
<b>UN PROPER SHIPPING NAME</b>	Disinfectants, liquid, corrosive n.o.s. (Quaternary Ammonium compound)
<b>TRANSPORT HAZARD CLASS</b>	8
<b>PACKAGING GROUP</b>	III
<b>ENVIRONMENTAL HAZARDS</b>	Nil
<b>TRANSPORT IN BULK, if applicable</b>	Not applicable
<b>SPECIAL PRECAUTIONS</b>	Emergency Response Guide (ERG): 153

### SECTION 15 – REGULATORY INFORMATION

<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>
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### SECTION 16 – OTHER INFORMATION

<b>PREPARED BY:</b>	Gus Kaklamanos - Chemist
<b>TELEPHONE NO.:</b>	416-261-7182
<b>DATE OF THE LATEST REVISION OF SDS:</b>	October 5, 2017

NOTE: This controlled product by Health Canada is to be used in accordance with the directions on the label.

**Drug Identification No.: 00695572**