




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-420 'A' ALL PURPOSE 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 (glasses,)
<b>HAZARD ALERT SIGN:</b>	

<b>SECTION 1 – IDENTIFICATION</b>	
<b>PRODUCT IDENTIFIER</b>	
<b>PRODUCT NAME</b>	G-420 'A' ALL PURPOSE CLEANER
<b>MANUFACTURER'S NAME AND ADDRESS</b> <b>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</b> <b>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>	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

Dangerous Goods-WHMIS: CLASS D, 2B  
OSHA HAZARDS: Irritant

### GHS CLASSIFICATION

Eye irritation- Category 2A

GHS Label Elements, including precautionary statements: Hazard Statements

**Signal word-DANGER**

### HAZARD STATEMENTS

H320-Causes eye irritation

H302- Harmful if swallowed

### PREVENTION (see also section 4 –First aid and measures)

P280: Wear eye protection/ face protection

P264: Wash skin thoroughly after handling

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: May cause irritation

SKIN: May cause skin irritation

INGESTION: May be harmful if swallowed



<b>SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS</b>				
<b>HAZARDOUS INGREDIENTS</b>	<b>APPROXIMATE CONCENTRATION %</b>	<b>C.A.S., N.A. OR U.N. NUMBERS</b>	<b>LD50 {SPECIFY SPECIES &amp; ROUTE}</b>	<b>LC 50 {SPECIFY SPECIES &amp; ROUTE}</b>
Morpholine Oleate	1 - 3	1095-66-5	Oral(Rat): >5,000 mg/kg Dermal (Rabbit):>2000 mg/kg	
Sodium (C10-16) Benzene Sulfonate	1 - 3	68081-2	Oral (Rat): >1,000 mg/kg Dermal(Rabbit):>2,999 mg/kg	
Sodium Citrate	1 – 3	6132-04-3	Oral (Rat): 6,730 mg/kg Dermal(Rabbit):>2000mg/kg	
2-Butoxyethanol	1 - 3	111-76-2	Oral(Rat): 1,300 mg/kg Dermal(Rabbit):>5,000 mg/kg	
Sodium metasilicate pentahydrate	<1	10213-79-3	Oral(Rat): 1,153 mg/kg Dermal(Rabbit): 250 mg/kg	
Phosphoric acid, trisodium salt, dodecahydrate	< 1	10101-89-0	Oral(Rat): 7,400 mg/kg Dermal(Rabbit):>2,000mg/kg	
Water, inert and other non -hazardous ingredients	Balance			

<b>SECTION 4 – FIRST AID MEASURES</b>	
<b>SKIN CONTACT</b>	No known significant effects or critical hazards for product at use solution. For product as sold contact may cause mild irritation. In case of contact rinse with plenty of water.
<b>EYE CONTACT</b>	Immediately hold eyelids open and flush with water for at least 15 minutes. Seek medical attention if required
<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.
<b>NOTES TO PHYSICIAN</b>	Treatment based on sound judgment of physician and individual reaction of patient. If swallowed Symptoms may include nausea, vomiting and diarrhea. EYE CONTACT: Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

<b>SECTION 5 – FIRE-FIGHTING MEASURES</b>	
<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), Oxides of Sulphur
<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. 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.
<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. 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
<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 blue liquid
<b>ODOUR</b>	pleasant
<b>ODOUR THRESHOLD (PPM)</b>	Not available
<b>PH</b>	10.40 ±0.50 in water concentrate, 9.25 ± 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>	Not applicable

VAPOUR PRESSURE	Not applicable
SOLUBILITY	Soluble in water
VISCOSITY	Thin liquid
% VOLATILE BY VOLUME	92 ± 1
SPECIFIC GRAVITY	1.02 ± 0.02 gm / cm <sup>3</sup>

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, Acids
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon Dioxide (CO <sub>2</sub> ), Carbon Monoxide, Oxides of Sulphur

SECTION 11 –TOXICOLOGICAL INFORMATION	
TOXICITY EFFECTS ON ANIMALS	<p><b>For Morpholine Oleate (1095-66-5):</b> Acute Oral toxicity LD50 (Rat): &gt;5,000 mg/kg, LD50 Dermal (Rabbit): &gt;2,000 mg/kg.</p> <p><b>For Sodium (C10-16) Benzene Sulfonate (68081-2):</b> Acute Oral Toxicity LD50 (Rat); &gt;1,000 mg/kg. Acute Dermal Toxicity LD50 (Rabbit): &gt;2,000 mg/kg</p> <p><b>For Sodium Citrate (6132-04-3):</b> Acute Oral toxicity LD50 (Rat): 6,730 mg/kg. LD50 Dermal (Rabbit): &gt;2,000 mg/kg.</p> <p><b>For 2-Butoxyethanol (111-76-2):</b> Acute Oral Toxicity LD50 (Rat): 1,300 mg/kg. Acute Dermal Toxicity LD50 (Rabbit): &gt;5,000 mg/kg. NIOSH PEL-TWA 50 ppm (240 mg/m<sup>3</sup>), IDLH (Immediate danger 700 ppm).</p> <p><b>For Sodium Metasilicate Pentahydrate (10213-79-3):</b> Acute Oral Toxicity LD50 (Rat): 1153 mg/kg. Acute Dermal Toxicity LD50 (Rabbit): 250 mg/kg/24 h.</p> <p><b>For Phosphoric acid, Trisodium salt, dodecahydrate (10101-89-0):</b> Acute Oral Toxicity LD50 (Rat): 7400 mg/kg. Acute Dermal Toxicity LD50 (Rabbit): &gt;2,000 mg/kg</p> <p><b>For the mix</b> estimated Acute Oral Toxicity is much &gt;5,000 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>
TOXIC EFFECTS ON HUMANS	May cause irritation of eyes, may cause some skin irritation to some persons
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><b>For Morpholine Oleate (1095-66-5) :</b> No specific data was located. The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. Ingredient readily BIODEGRADABLE.</p>

	<p><b>For Sodium (C10-16) Benzene Sulfonate (68081-81-2):</b> Acute Toxicity to fish LC50, Fathead minnow (Pimephales Promelas ): 1.67 mg /L /96h. Acute Toxicity Crustacea EC50, Daphnia magna (Water flea): 2.4 mg / L/ 48 h. EC50 Algae: 20 mg /L / 96h. This ingredient is Toxic to aquatic organisms, however it biodegrades very fast. Primary degradation intermediates are Sulfohenyl Carboxylates which further degrades to CO<sub>2</sub>, SO<sub>4</sub> and water. Biodegradation intermediates have LC50 &gt;1,000 mg /L /96 h. for Fathead Minnows and Daphnia magna and are not toxic to aquatic organisms.</p> <p><b>For Sodium Citrate (6132-04-3):</b> Acute Toxicity to fish LC50, Poecilia Reticulata: 18,000-32,000 mg / L / 96h. Acute Toxicity to Crustacea EC50, Daphnia magna (Water flea): 5,600 mg /L / 48 h. EC50, Chlorella Vulgaris (fresh water Algae): 18,000-32,000 mg / L / 96 h. Ingredient readily BIODEGRADABLE. Biodegradability: &gt;98 % /2 days</p> <p><b>For 2-Butoxyethanol (111-76-2):</b> Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50 &gt;100 mg / L in most sensitive species tested). EC50, Daphnia magna (Water flea), static test: 1,550 mg / L / 48h. BIODEGRADABLE product.</p> <p><b>For Sodium metasilicate pentahydrate (10213-79-3):</b> Ecotoxicity in water, acute toxicity to fish LC50, Mosquito fish (Gambusia affinis): 2,320 ppm / 96 h. Acute Toxicity to aquatic invertebrates, EC50, Daphnia magna (Water flea): 247 ppm /96 h. Acute toxicity to snail eggs (Lymnea): 632 ppm /96 h. This ingredient is inorganic and not subject to biodegradation.</p> <p><b>For Phosphoric acid, Trisodium salt dodecahydrate (10101-89-0):</b> Acute Toxicity to fish: EC50, Mosquitofish: 151 mg /L /96 h. EC50 Daphnia magna (Water flea): 126 mg/L / 96 h. No specific biodegradation test data was located. Formulation will contain &lt; 0.18 % P<sub>2</sub>O<sub>5</sub>.</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 5, 2017