

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-500 GENERAL PURPOSE CLEANER / DEGREASER		
HEALTH HAZARD RATING:	RD RATING: (3)- SERIOUS HAZARD NFPA Rating	
FLAMMABILITY HAZARD RATING:	(0)- MINIMAL HAZARD	
REACTIVITY HAZARD RATING:	(0)- MINIMAL HAZARD	
PERSONAL PROTECTION:	B - (Safety glasses, Gloves,)	
HAZARD ALERT SIGN:		

SECTION 1 – IDENTIFICATION	
PRODUCT IDENTIFIER	
PRODUCT NAME	G-500 GENERAL PURPOSE CLEANER / DEGREASER
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	NOT APPLICABLE
CHEMICAL FAMILY	STRONG BASE
TRADE NAME AND SYNONYMS	NOT APPLICABLE
MATERIAL USE	COMMERCIAL, INSTITUTIONAL AND INDUSTRIAL 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.

<u>INGREDIENTS.</u> 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.

 $\underline{\text{T.L.V.}}$  (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.

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

<u>"LC 50"</u> 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.

<u>"LD 50"</u> 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.

<u>FLASH POINT.</u> 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 E and Class D. DIV. 2A, 2B

### **GHS CLASSIFICATION**

Acute Toxicity (oral) – Category 4
Serious Eye Damage –Category 1
Skin Corrosion/Irritation – Sub- Category 1A

## **HAZARDOUS SUBSTANCE (HSNO) CLASSIFICATION**

Corrosive liquid: CLASS E and CLASS D, DIV 2A,2B

GHS Label Elements, including precautionary statements: Hazard Statements:

Signal word- DANGER

### **HAZARD STATEMENTS**

H314: Causes severe skin burns and eye damage

H318: Causes serious eye damage

H302: Harmful if swallowed H227 Combustible liquid



#### **PREVENTION**

P260- Do not breathe fumes, mist, vapors or spray

P264: Wash skin thoroughly after handling

P280: Wear protective gloves/ protective clothing/ eye protection/ face protection

P405: Store locked up

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources

## **RESPONSE**

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

P301 + P310: If swallowed: Immediately call a POISON CENTER or doctor/physician.

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

P304 +P340 + P310: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician

P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water. Shower

# POTENTIAL HEALTH EFFECTS

**INHALATION**: If mist is inhaled may be harmful. May Cause respiratory tract irritation.

**SKIN:** May cause skin irritation and/ or chemical burns.

**EYE:** May cause serious damage

**INGESTION:** May be fatal if swallowed

P273: Avoid release to the environment.

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)
Potassium Hydroxide	3 - 7	1310-58-3	Oral (Rat): 273 mg/kg Dermal (Rabbit):>1260 mg/kg	TWA: 2 mg/m <sup>3</sup>
Sodium metasilicate pentahydrate	1 - 3	10213-79-3	Oral (Rat): 1153 mg/kg Dermal (Rabbit): 250mg/24h	TWA: 2 mg/m <sup>3</sup>
Cocoamide DEA	3 - 7	68603-42-9	Oral(Rat): >5,000 mg/kg Dermal (Rabbit):>2000mg/kg	
Tetrasodium ethylenediamine tetraacetate	< 1	64-02-8	Oral (Rat): 3,030 mg/kg Dermal (Rabbit):>5,000mg/kg	
2-Aminoethanol	1-3	141-43-5	Oral (Rat): 1,515mg/kg Dermal (Rabbit): 2,504mg/kg	TWA: 6mg/m <sup>3</sup>
2-Butoxyethanol	1-3	111-76-2	Oral (Rat ): 1,300mg/kg Dermal (Rabbit):>5000mg/kg	TWA: 240 mg/m <sup>3</sup>
Sodium (C10-16) Benzene Sulfonate	3 - 7	68081-81-2	Oral (Rat ): >1,000 mg/kg Dermal (Rabbit ):>2000mg/kg	
Poly(oxy-1,2 ethanediyl) a – Hydro-w hydroxyl-decyl ethers phosphate	3 - 7	9004-80-2	Oral (Rat): >1,500 mg/kg Dermal (Rabbit):>5,000mg/kg	
Water, inert	Balance			

SECTION 4 – FIRST AID MEASURES			
SKIN CONTACT	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Get medical attention if necessary.		
EYE CONTACT	Immediately hold eyelids open and flush with water for at least 15 minutes. Seek medical attention.		
INHALATION	Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention if necessary		
INGESTION	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 occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.		
NOTES TO PHYSICIAN	Product is corrosive material. Strong Base. Causes respiratory irritation if inhaled. Symptoms may include: Coughing, choking and wheezing. Inhalation could result in pulmonary edema (fluid accumulation). Symptoms of pulmonary edema (chest pain, shortness of breath) may be delayed. If ingested may cause burns or irritation of the lining of the mouth, throat, and gastrointestinal tract. Symptoms may include abdominal pain, vomiting, burns, bleeding and eventually death. Corrosive to the eyes and may		

cause severe damage. Symptoms may include stinging, tearing, redness, swelling, and
blurred vision.

SECTION 5 – FIRE-FIGHTING MEASURES		
FLASH POINT ( °C)	67°C (Flash point for 2-Butoxyethanol)	
FLASH POINT METHOD	Closed cup	
AUTOIGNITION TEMPERATURE ( °C )	>230°C (446° F)	
UPPER FLAMMABLE LIMIT ( % VOL.)	10.6 ( For 2-Butoxyethanol)	
LOWER FLAMMABLE LIMIT ( % VOL. )	1.3 (For 2-Butoxyethanol)	
HAZARDOUS COMBUSTION PRODUCTS	Oxides of Nitrogen, Carbon monoxide, Carbon dioxide	
UNUSUAL FIRE/ EXPLOSION HAZARDS	Releases flammable hydrogen gas when reacting with some metals	
SENSITIVITY TO MECHANICAL IMPACT	No.	
SENSITIVITY TO STATIC DISCHARGE	No	
EXTINGUISHING MEDIA	Use extinguishing agents appropriate for the burning material. Use water spray to keep fire-exposed containers cool. Use Carbon dioxide, Alcoholresistant foam, Dry chemical	
SPECIAL FIRE FIGHTING PROCEDURES	Fire fighters should wear full protective clothing, including self-contained breathing equipment. The product causes burns of eyes, skin and mucous membranes.	

SECTION 6 - ACCIDENTAL RELEASE MEASURES		
LEAK AND SPILL PROCEDURE	Stop leak. Move containers from spill area. Absorb spill with vermiculite absorbent material, neutralize the residue with a dilute solution of acid (e.g. Phosphoric acid) and place in a suitable container for disposal. Clean surfaces thoroughly with water to remove residual contamination. LARGE SPILL: Corrosive liquid. Stop leak if without risk. Do not touch spilled material. Neutralize the residue. Be careful that vapors are not present at a concentration level above TLV	
ENVIRONMENTAL PRECAUTIONARY	Prevent entry into sewers or streams. Any release to the environment should be subject to federal or local reporting requirements.	
PERSONAL PRECAUTIONARY MEASURES	Wear protective clothing during cleanup. See section 8 for recommendations on the use of personal protective equipment. Avoid breathing vapors, mist or gas. Avoid contact with clothing and skin.	

SECTION 7 – HANDLING AND STORAGE		
HANDLING PROCETURES	Avoid contact with eyes and skin. 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 above freezing point. Keep out of the reach of children. Keep in properly labeled containers.	

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION		
VENTILATION REQUIREMENTS	Good ventilation is recommended. When ACGIH TLV (Threshold Limit Value) is greater than 2 mg/ m³ as Potassium Hydroxide and Sodium Metasilicate provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective. NIOSH Ceiling: 2 mg/m³, ACGIH TLV Ceiling 2 mg/m³, OSHA PEL 2mg/m³ for Potassium Hydroxide (1310-58-3) and Sodium metasilicate (10213-79-3)	

PROTECTIVE EQUIPMENT	Ensure that eyewash stations are proximal to the work-station location. The selection of personal protective equipment will vary depending on the condition of use	
EYE/TYPE	Splash goggles, safety glasses	
RESPIRATORY/T YPE	Approved/ certified vapor respirator when airborne concentration exceed exposure limits.	
GLOVE/TYPE	Nitrile, Vinyl, Butyl impervious gloves	
FOOTWEAR/TYP E	Boots. Chemical resistant and as specified by the workplace	
BODY/TYPE	Protective clothing is required. Use impervious clothing (apron, coveralls). The selection of personal protective equipment will vary depending on the conditions of use.	

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES		
APPEARANCE – PHYSICAL STATE	Thin, clear yellow liquid	
ODOUR	Mild mint aroma	
ODOUR THRESHOLD (PPM)	Not determined	
PH	13.25 ± 0.5 concentrate. For 2 % solution in water 11.95 ± 0.5	
MELTING POINT ( °C)	See freezing point	
BOILING POINT ( °C )	>100°C (212° F) INITIAL	
FREEZING POINT ( °C )	0°C (32° F)	
EVAPORATION RATE	>1.00 (n-Butyl Acetate)	
FLAMMABILITY	Combustible	
FLASH POINT ( °C)	>67° C	
AUTO IGNITION TEMPERATURE	>230° C	
DECOMPOSITION TEMPERATURE	Not available	
VAPOUR DENSITY	Not available	
VAPOUR PRESSURE	@ 20°C 0. <25 mmHg	
SOLUBILITY	Completely soluble in water	
VISCOSITY	Thin liquid	
% VOLATILE BY VOLUME	80 ± 0.5 %	
SPECIFIC GRAVITY	$1.03 \pm 0.02 \text{ gm} / \text{cm}^3 @ 20^{\circ}\text{C}$	

SECTION 10 – STABILITY AND REACTIVITY		
REACTIVITY Exothermic reaction with incompatible materials		
CHEMICAL STABILITY	Stable under normal conditions	
POSSIBILITY OF HAZARDOUS REACTIONS	Arise in contact with incompatible materials.	
CONDITIONS TO AVOID	Avoid incompatible materials	
INCOMPATIBLE MATERIALS	Avoid contact with strong Acids, Nitrocarbons, halocarbons, Potassium persulfate, Sodium borohydride, Silver nitrate, Acetaldehyde, Hydroquinone, Phosphorus, Acrolein, Acrylonitrile, Maleic anhydride, Cyanogen azide. Also avoid prolonged contact with metals such as Aluminum, Zinc, brass and Tin.	
HAZARDOUS DECOMPOSITION PRODUCTS	Oxides of Nitrogen, Carbon dioxide, Carbon monoxide	

SECTION 11 -TOXICOLOGICAL INFORMATION	
TOXICITY EFFECTS ON	For Potassium Hydroxide (1310-58-3): Acute oral toxicity (LD50): 273mg/kg (Rat), LD50
ANIMALS	dermal (Rabbit) >1,260 mg/kg,

	For Sodium Metasilicate Pentahydrate (10213-79-3):. Acute oral toxicity LD50 (Rat):			
	1153 mg/kg. Acute dermal (Rabbit): 250mg/kg/24 h			
	For Cocoamide DEA (68603-42-9): Acute Oral (Rat): >5,000 mg/kg, Acute Dermal			
	(Rabbit ): >2,000mg /kg			
	For Tetrasodium ethylenediamine tetraacetate (64-02-8): Acute Oral (Rat): 3,030 mg/			
	kg, Dermal (Rabbit): >5,000 mg/kg			
	For 2-Aminoethanol (141-43-5): Acute Oral toxicity LD50 (Rat): 1,515 mg/kg, Dermal			
	(Rabbit): 2,504 mg/kg			
	For 2-Butoxyethanol (111-76-2): Acute Oral toxicity LD50 (Rat): 1,300 mg/kg, Dermal			
	(Rabbit): >5,000 mg/kg			
	For Sodium (C10-16) Benzene Sulfonate: Acute Oral toxicity LD50(Rat): >1,000 mg/kg,			
	Dermal (Rabbit): >2,000 mg/kg			
	For Poly(oxy-1,2 ethanediyl) a- Hydro-w hydroxyl-decyl ethers phosphate (9004-80			
	Acute Oral toxicity LD50 (Rat): >1,500 mg/kg, Dermal (Rabbit): >5,000 mg/kg			
	Acute Oral toxicity LD30 (Nat). > 1,300 mg/ kg, Definal (Nabbit). > 3,000 mg/ kg			
	Inhalation: May cause irritation to the respiratory tract, leading to sore throat,			
	coughing, shortness of breath and delayed lung edema.			
	<b>Ingestion</b> : May cause circulatory system failure. Causes severe digestive tract burns			
TOXIC EFFECTS ON	with abdominal pain, vomiting, and possible death. May cause corrosion and tissue			
HUMANS	destruction of the esophagus and digestive tract.			
	<b>Skin contact</b> : Contact with this corrosive liquid may cause burns and ulceration			
	Eye contact: Causes severe burns			
CHRONIC EFFECTS ON				
HUMANS	Prolonged contact with skin may defat tissue causing dermatitis or skin problems.			
CARCINOGENICITY	No evidence			
TERATOGENICITY	No data available			
MUTAGENICITY	No evidence			
REPRODUCTIVE EFFECTS	No evidence			

SECTION 12 -ECOLOGICAL INFORMATION	
Figures for Potassium Hydroxide (1310-58-3) Toxicity to fish: LC50- Gambusia affinis (Mosquito fish) 80 mg/L/96h. LC5 Fathead Minnow 179 mg /L /96 h/ static. Acute toxicity to aquatic inverted Daphnia magna EC50=60 mg /L /48 h/ static. Algae Toxicity: EC50 (Selence capricomutum): 61 mg /L /96 h/ static bioassay at 23-24° C  Figures for Sodium metasilicate pentahydrate (10213-79-3) Ecotoxicity in water (LC50): Acute toxicity to fish: 2320 ppm/96 hours/ M fish (Gambusia affinis). Acute toxicity to aquatic invertebrates: 247 ppm/Daphnia magna. Acute toxicity to snail eggs (Lymnea): 632 ppm/96 h  Figures for Cocoamide DEA (68603-42-9): Toxicity to fish LC50 (Zebra fish): 6.7 mg/L/96 h/ static-renewal. EC50 (Daphnia magna) L / 24 h static  Figures for Tetrasodium ethylenediamine tetraacetate (64-02-8): Toxicity LC50, Lepomis macrochirus (Bluegill sunfish): 1,592 mg /L /96 h, static tet Aquatic Invertebrate acute toxicity EC50, Daphnia magna (Water flea): 6 mg / L / 24 h, immobilization	ebrates: estrum  osquito 96 hours  3.3 mg /

	<b>Figures for 2-Aminoethanol (141-43-5):</b> Acute toxicity to fish LC50 (Cyprinus	
	carpio): 349 mg /L/96 h. Acute Crustacea EC50, Daphnia magna : 65 mg / L /48h	
	Figures for 2 –Butoxyethanol (111-76-2): Material is practically non-toxic to	
	aquatic organisms on an acute basis (LC50/ EC50) >100 mg / L in most sensitive	
	species tested. EC50, Daphnia magna (Water flea): 1,550 mg/L/48 h.	
	Fac Cadima (C10 1C) Barrana Culfanata (C0001 2). Asuta tanisituta fish (C50	
	For Sodium (C10-16) Benzene Sulfonate (68081-2): Acute toxicity to fish LC50,	
Fathead minnow (Pimephales promelas): 1.67 mg / L /96 h. EC50 ,Daphnia r		
	(Water flea): 2.4 mg/L/48 h. EC50 Algae: 29 mg/L/96 h. This product is Toxic to	
	aquatic organisms however it biodegradates fast. Primary degradation	
	intermediates are Sulfophenyl Carboxylates which further degrades to CO <sub>2</sub> , SO <sub>4</sub>	
	and water. Biodegradation intermediates have LC50 >1000 mg / L for Fathead	
	Minnows and Daphnia magna and are not toxic to aquatic organisms	
	For Poly(oxy-1,2 ethanediyl) a- Hydro-w hydroxyl- decyl ethers phosphate	
	(9004-80-2): No data available	
	Because of the high PH of this product, it would be expected to exhibit moderate	
	toxicity to aquatic organisms.	
	Does not bioaccumulate. This product will disassociate into ionic form in the	
BIODEGRADABILITY	aquatic environment. Natural acidity in water and soil and Carbon dioxide will	
	neutralize this product. Ingredients are biodegradable.	
PRODUCTS OF DEGRADATION	Not available	

SECTION 13 – DISPOSAL CONSIDERATIONS		
WASTE DISPOSAL	Disposal of all wastes must be done in accordance with municipal, provincial and federal regulations. This product is hazardous to the aquatic environment in large volumes. Keep out of waterways.	
INFORMATION ON SAFE HANDLING FOR DISPOSAL INCLUDING ANY CONTAMINATED PACKAGING	Suitable waste facility.	

SECTION 14 – TRANSPORT INFORMATION		
UN NUMBER	3266	
UN PROPER SHIPPING NAME  CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S (8 % solution of Potassium Hydroxide and Sodium Metasilicate mixture)		
TRANSPORT HAZARD CLASS	CLASS: 8 (CORROSIVE)	
PACKAGING GROUP	III	
ENVIRONMENTAL HAZARDS	YES	
TRANSPORT IN BULK, if applicable	NOT AVAILABLE	
SPECIAL PRECAUTIONS  Guide to Canadian Transportation/ Emergency Response Guidebook (ERG) # 154		

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

NOTE: A lot of the information provided in this SDS may refer to very large or special usage of the product. The basic purpose of this product is to be used as a cleaner, where quantities stored and used at any time by various users are very small.

NOTE: In case of medical emergency ensure that medical personnel are aware of the

material involved. Show this SDS to the doctor in attendance.