





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

PRODUCT NAME: G-1000 LAUNDRY COMPOUND	
HEALTH HAZARD RATING:	(2)- MODERATE HAZARD
FLAMMABILITY HAZARD RATING:	(0)- MINIMAL HAZARD
REACTIVITY HAZARD RATING:	(0)- MINIMAL HAZARD
PERSONAL PROTECTION:	b (Glasses and Gloves)
HAZARD ALERT SIGN:	 

SECTION 1 – IDENTIFICATION

PRODUCT IDENTIFIER	
PRODUCT NAME	G-1000 LAUNDRY COMPOUND REGULAR
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	Detergent
TRADE NAME AND SYNONYMS	N/A
MATERIAL USE	INDUSTRIAL, COMMERCIAL, INSTITUTIONAL LAUNDRY COMPOUND

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: CLASS E (Corrosive), CLASS D, 2B (Toxic)**
OSHA HAZARDS: Corrosive material

GHS CLASSIFICATION

Skin Corrosion/ Irritation- Category 1 B

Serious Eye Damage/ Eye Irritation- Category 1

Acute Toxicity- Oral- Category 4

Specific target organ toxicity (single exposure)- Category 3 (Target organs-Respiratory system)

GHS Label Elements, including precautionary statements: Hazard Statements

Signal word- DANGER

HAZARD STATEMENTS

H319: Causes serious eye irritation

H302: Harmful if swallowed

H315: Causes skin irritation

H335: May cause respiratory irritation

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

P280: Wear protective gloves/ eye protection / face protection

P264: Wash skin thoroughly after handling

P260: Do not breathing dust/ mist

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

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

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

POTENTIAL HEALTH EFFECTS

EYE: Will cause severe irritation

SKIN: Will cause severe irritation

INGESTION: May be harmful if swallowed

INHALATION: May cause respiratory 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 Metasilicate Pentahydrate	30 - 40	10213-79-3	Oral (Rat): 1153 mg/kg Dermal (Rabbit)250mg/24 h	
Sodium Carbonate Anhydrous	40 - 60	497-19-8	Oral (Rat): 4090 mg/kg Dermal (mouse): 2210 mg/kg	
Sodium Percarbonate	3 – 7	15630-89-4	Oral (Rat): 2,400 mg/kg Dermal (Rabbit): >2000mg/kg	
Sodium Citrate Dihydrate	3 - 7	6132-04-3	Oral (Rat): 6,730 mg/kg Dermal (Rabbit): >2000mg/kg	
Trisodium phosphate dodecahydrate	1 - 3	10101-89-0	Oral (Rat): >7,400mg/kg Dermal (Rabbit): >7,940mg/kg	
Diphosphoric acid, sodium salt (1:2)	1 - 3	7758-16-9	Oral (mouse): 2,650 mg/kg Dermal(Rabbit): >2,640mg/kg	
Tetrasodium salt of EDTA	0.1 - 1	64-02-8	Oral (Rat): 3,030 mg/kg Dermal (Rabbit):>5,000 mg/kg	
(C10-C16) Alkyl Benzene Sulfonic acid, Sodium salt	1 - 3	68081-2	Oral (Rat): >1,000 mg/kg Dermal (Rabbit):>2,000mg/kg	
Perfume and other non - hazardous ingredients	<1			

SECTION 4 – FIRST AID MEASURES	
SKIN CONTACT	No known significant effects or critical hazards for product at use solution. For product as sold contact may cause irritation, seen as local redness. Prolonged contact will cause chemical burns. In case of contact rinse with plenty of 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 for product at use solution. For product as supplied (powder form) avoid breathing dust. Inhalation of dust may cause nose, throat, and lung irritation. If symptoms persist, call a physician.
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.

SECTION 5 – FIRE-FIGHTING MEASURES	
FLASH POINT (°C)	Not flammable
FLASH POINT METHOD	Not applicable
AUTOIGNITION TEMPERATURE (°C)	Not applicable
UPPER FLAMMABLE LIMIT (% VOL.)	Not applicable
LOWER FLAMMABLE LIMIT (% VOL.)	Not applicable
HAZARDOUS COMBUSTION PRODUCTS	Carbon Dioxide (CO ₂), Carbon monoxide. Oxides of sodium
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	Sweep up spillage and collect in suitable container for disposal. Avoid dust formation.
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 and skin. Do not ingest. Do not breathe dust. Use good industrial hygiene practices in handling this product. Keep container closed when not in use.
STORAGE NEEDS	Keep container tightly closed and store in a dry area

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	If exposure limits are exceeded or if irritation or other symptoms are experienced use NIOSH approved respiratory protection. Respirator with a dust filter.
GLOVE/TYPE	PVC, Neoprene, Natural Rubber. Do not wear cotton 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	Blue powder
ODOUR	lemon
ODOUR THRESHOLD (PPM)	Not applicable
PH	12.00 ± 0.50 2 % solution
MELTING POINT (°C)	Not applicable
BOILING POINT (°C)	Not applicable
FREEZING POINT (°C)	Not applicable
EVAPORATION RATE	Not applicable
FLAMMABILITY	Not applicable
FLASH POINT (°C)	Not applicable
AUTO IGNITION TEMPERATURE	No data
DECOMPOSITION TEMPERATURE	Not available
VAPOUR DENSITY	Not applicable
VAPOUR PRESSURE	Not applicable
SOLUBILITY	Soluble in water 15-20 %
VISCOSITY	Not applicable
% VOLATILE BY VOLUME	Not applicable
SPECIFIC GRAVITY	No data

SECTION 10 – STABILITY AND REACTIVITY	
REACTIVITY	Strong acids, strong Oxidizing agents
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), Oxides of Sodium

SECTION 11 –TOXICOLOGICAL INFORMATION	
TOXICITY EFFECTS ON ANIMALS	<p>For Sodium Metasilicate Pentahydrate (10213-79-3): Acute Oral Toxicity LD50 (Rat): 1,153 mg/kg. Acute Dermal Toxicity LD50 (Rabbit): 250 mg/kg/24 h.</p> <p>For Sodium Carbonate Anhydrous (497-19-8): Acute Oral Toxicity LD50 (Rat): 4090 mg/kg. Acute Dermal Toxicity LD50 (mouse): 2210 mg/kg.</p> <p>For Sodium Percarbonate (15630-89-4): Acute Oral Toxicity LD50 (Rat): 2,400 mg/kg. Acute Dermal Toxicity LD50 (Rabbit): >2,000 mg/kg.</p> <p>For Sodium Citrate Dihydrate (6132-04-3): Acute Oral Toxicity LD50 (Rat): 6,730 mg/kg. Acute Dermal Toxicity LD50 (Rabbit): >2,000 mg/kg.</p> <p>For Trisodium phosphate dodecahydrate (10101-89-0): Acute Oral Toxicity LD50 (Rat): >7,400mg/kg. Acute Dermal Toxicity LD50 (Rabbit): >7,940 mg/kg</p> <p>For Diphosphoric acid, sodium salt (1:2) (7758-16-9): Acute Oral Toxicity LD50 (mouse): 2,650 mg / kg. Acute Dermal Toxicity LD50(Rabbit): >2,640 mg / kg.</p> <p>For Tetrasodium salt of EDTA (64-02-8): Acute Oral Toxicity LD50 (Rat): 3,030 mg/kg. Acute Dermal Toxicity LD50 (Rabbit): >5,000 mg/kg.</p> <p>For (C10-C16) Alkyl Benzene Sulfonic acid, Sodium salt (68081-2): Acute Oral Toxicity LD50 (Rat): >1,000 mg/kg. Acute Dermal Toxicity LD50 (Rabbit): >2,000 mg/kg.</p>

TOXIC EFFECTS ON HUMANS	Will cause serious eye damage, skin irritation. May cause irritation of the respiratory tract with coughing, choking and pain. Ingestion causes severe swelling, severe damage to the delicate tissue. Product is a corrosive material.
CHRONIC EFFECTS ON HUMANS	Repeated or prolonged skin contact may result in dermatitis.
CARCINOGENICITY	No evidence
TERATOGENICITY	No evidence
MUTAGENICITY	No evidence
REPRODUCTIVE EFFECTS	No evidence

SECTION 12 –ECOLOGICAL INFORMATION

ECOTOXICITY DATA	<p>Figures for Sodium Metasilicate Pentahydrate (10213-79-3): Ecotoxicity in water (LC50): Acute Toxicity to fish, Mosquito fish (<i>Gambusia Affinis</i>): 2320 ppm / 96 h. Acute Toxicity to aquatic invertebrates LC50, <i>Daphnia magna</i> (Water flea): 247 ppm / 96 h. Acute Toxicity to snail eggs (<i>Lymnea</i>), EC50: 632 ppm/ 96 h.</p> <p>Will likely be mobile in the environment due to its water solubility. Persistence is unlikely based on information available. This material is inorganic and not subject to biodegradation. This ingredient is moderate toxic to aquatic organisms.</p> <p>Figures for Sodium Carbonate Anhydrous (497-19-8): Ecotoxicity in water. Acute Toxicity to fish, LC50, <i>L. macrochirus</i>: 300 mg / L / 96 h. LC50, <i>Pimephales Promelas</i> (fathead minnow) (various age groups): 310 – 1220 mg /L / 96 h. Acute Toxicity to aquatic invertebrates LC50, <i>Daphnia magna</i> (water flea): 265 mg / L / 48h. This ingredient is readily degradable in the environment. Not Bioaccumulative.</p> <p>Figures for Sodium Percarbonate (15630-89-4): Acute Toxicity to fish LC50, <i>Pimephales promelas</i> (fathead minnow): 71 mg/L / 96h. Acute Toxicity to aquatic invertebrates EC50, <i>Daphnia pulex</i> (water flea): 4.9 mg / L/ 48 h. This ingredient is inorganic and not subject to biodegradation.</p> <p>Figures for Sodium Citrate Dihydrate (6132-04-3): Acute Toxicity to fish LC50, <i>Poecilia Reticulata</i>: 18,000-32,000 mg /L / 96h. Acute Toxicity to aquatic invertebrates EC50, <i>Daphnia magna</i> (Water flea): 5,600-10,000 mg /L / 48h. EC50 Fresh water Algae (<i>Chlorella Vulgaris</i>): 1800-3200 mg /L / 8 h. Ingredient Non-toxic, readily BIODEGRADABLE. Bidegradability: >98 % / 2 days.</p> <p>Figures for Trisodium phosphate dodecahydrate (10101-89-0): Acute Toxicity to fish LC50, Mosquito fish (<i>Gambusia Affinis</i>): 151 mg / L/ 96 h. LC50 Bluegill Sunfish (<i>Lepomis macrochirus</i>): 440 mg /L / 96 h. LC50 Rainbow trout (Cold water fish): 260 mg / L /96 h. Acute Toxicity to aquatic invertebrates EC50, <i>Daphnia magna</i> (Water flea): 126 mg/ L / 96 h. No biodegradation data was found for this material. This material is a Phosphorous based product and will provide to the formulation <0.50 % Phosphorous (as P₂O₅)</p> <p>Figures for Diphosphoric acid, sodium salt (1:2) (7758-16-9): No specific data was found. Avoid contaminating waterways. This ingredient is inorganic and the term biodegradability is not applicable. This ingredient will slowly hydrolyze in water to Orthophosphate which can act as a plant nutrient. This ingredient will provide in the formulation <1.7 % Phosphorus (as P₂O₅)</p> <p>Figures for Tetrasodium salt of EDTA (64-02-8): Acute Toxicity to fish LC50, Bluegill Sunfish (<i>Lepomis macrochirus</i>): 157-2,070 mg /L / 96 h. LC50, <i>Pimephales promelas</i> (Fathead minnow): >100 mg /L /96 h. Mateial is practically non-toxic to fish on an acute basis. Bioconcentration potential is low</p>
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	Figures for C10-C16 Alkyl Benzene Sulfonic acid, Sodium salt (68081-2): Acute Toxicity to fish, LC50, Pimephales Promelas (Fathead minnow): 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.
BIODEGRADABILITY	Biodegradable surface active agents
PRODUCTS OF DEGRADATION	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	3262
UN PROPER SHIPPING NAME	CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (30-40% Disodium Trioxosilicate)
TRANSPORT HAZARD CLASS	8 (Corrosive)
PACKAGING GROUP	III
ENVIRONMENTAL HAZARDS	Nil
TRANSPORT IN BULK, if applicable	Not applicable
SPECIAL PRECAUTIONS	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:	October 5, 2017