




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

PRODUCT NAME: KITCHEN EXHAUST CLEANING DEGREASER	
HEALTH HAZARD RATING:	(3)- SERIOUS HAZARD NFPA Rating
FLAMMABILITY HAZARD RATING:	(0)- MINIMAL HAZARD
REACTIVITY HAZARD RATING:	(1)- SLIGHT HAZARD
PERSONAL PROTECTION:	C- (Safety glasses, Gloves, Synthetic apron,)
HAZARD ALERT SIGN:	

SECTION 1 – IDENTIFICATION

PRODUCT IDENTIFIER

PRODUCT NAME	KITCHEN EXHAUST CLEANING 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 CHEMTREC(24 HR EMERGENCY) 1-800-424-9300 International CHEMTREC: 1-703-527-3887
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.

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 and Class D. DIV. 2B
HAZARDOUS SUBSTANCE (HSNO CLASSIFICATION)
Corrosive liquid: CLASS E and CLASS D, DIV 2B

GHS CLASSIFICATION

Acute Toxicity (oral) – Category 4
Acute Toxicity (Inhalation)- Category 4
Serious Eye Damage –Category 1
Skin Corrosion/Irritation –Sub- Category 1A
Metal Corrosion- Category 1
Toxic to Aquatic Environment- Acute Hazard- Category 2
Toxic to Aquatic Environment- Chronic- Category 3

GHS Label Elements, including precautionary statements: Hazard Statements:

Signal word- DANGER

HAZARD STATEMENTS

H314: Causes severe skin burns and eye damage
H312: Harmful in contact with skin
H318: Causes serious eye damage
H302 + H332: Harmful if swallowed or if inhaled
H335: May cause respiratory irritation
H290: May be corrosive to metals
H412: Harmful to aquatic life with long lasting effects

PREVENTION

P260- Do not breathe fumes, mist, vapors or spray
P271: Use only outdoors or in well-ventilated area
P264: Wash skin thoroughly after handling
P280: Wear protective gloves/ protective clothing/ eye protection/ face protection
P405: Store locked up
P273: Avoid release to the environment

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: Will cause skin irritation and/ or chemical burns.
EYE: Will cause serious damage
INGESTION: May be fatal if swallowed

	NOTE: Product is corrosive to Aluminum, Galvanized, Brass and Tin. Avoid prolonged contact with these metals.
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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}
Sodium Hydroxide	30 - 40	1310-73-2	Oral (Rat): 140-340 mg/kg Dermal (Rabbit): 1,350 mg/kg	TWA: 2 mg/m³
Sodium Gluconate	1 - 5	527-07-1	Oral (Rat): > 2,000mg/kg	
D-Glucopyranose, oligomeric, decyl octyl Glycosite	3 - 7	68515-73-1	Oral (Rat): >3,000 mg/kg Dermal (Rabbit): >5,000mg/kg	
Water, inert	Balance	Non hazardous		

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 without delay.
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. Transport to the Hospital without delay.
NOTES TO PHYSICIAN	Product is corrosive material. Strong Base. Causes respiratory irritation if inhaled. Symptoms may include: Coughing, choking and sneezing. Inhalation could result in pulmonary edema (fluid accumulation). Symptoms of pulmonary edema (chest pain, shortness of breath) may be delayed. If <i>ingested will cause burns or irritation of the lining of the mouth, throat, and gastrointestinal tract</i> . Corrosive to the eyes and will cause severe damage. Symptoms may include stinging, tearing, redness and swelling.

SECTION 5 – FIRE-FIGHTING MEASURES	
FLASH POINT (°C)	Nil
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	Oxides of Sodium, 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
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. Thermal decomposition can lead to release of Oxides of Sodium, Carbon Dioxide, Carbon monoxide.

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.
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/ m ³ as Sodium Hydroxide provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective. NIOSH Ceiling: 2 mg/m ³ , ACGIH TLV Ceiling 2 mg/m ³ , OSHA PEL 2mg/m ³ for Sodium Hydroxide (1310-73-2).
PROTECTIVE EQUIPMENT	Ensure that eyewash stations are proximal to the work-station location. The selection of personal protective equipment will vary depending on the use.
EYE/TYPE	Splash goggles, safety glasses
RESPIRATORY/TYPE	Approved/ certified vapor respirator when airborne concentration exceed exposure limits.
GLOVE/TYPE	Nitrile, Vinyl, Butyl impervious gloves
FOOTWEAR/TYPE	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	Viscous, clear reddish/purple liquid
ODOUR	No odour
ODOUR THRESHOLD (PPM)	Not determined
PH	13.80 ± 0.2 concentrate
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	Not combustible
FLASH POINT (°C)	Not applicable
AUTO IGNITION TEMPERATURE	Not applicable
DECOMPOSITION TEMPERATURE	Not applicable
VAPOUR DENSITY	Not determined
VAPOUR PRESSURE	@ 20°C 17.54 mmHg
SOLUBILITY	Completely soluble in water
VISCOSITY	viscous liquid
% VOLATILE BY VOLUME	56 ± 0.5 %
SPECIFIC GRAVITY	1.43 ± 0.02 gm / cm ³ @ 20°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. Forms flammable and explosive Hydrogen gas through corrosion of some metals.
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 Sodium, Carbon dioxide, Carbon monoxide.

SECTION 11 –TOXICOLOGICAL INFORMATION	
TOXICITY EFFECTS ON ANIMALS	<p>For Sodium Hydroxide (1310-73-2): Acute oral toxicity (LD50): 140-340mg/kg (Rat). Acute Dermal Toxicity, LD50 dermal (Rabbit) 1,350 mg/kg. IRRITATION: Eye (Rabbit): 0.05 mg/24 h. Severe</p> <p>For Sodium Gluconate (527-07-1): Acute Oral Toxicity LD50 (Rat): >2,000 mg/ kg. Acute Dermal Toxicity LD50 Dermal (Rabbit): No data found</p> <p>For D-Glucopyranose, oligomeric, decyl octyl Glycosite (68515-73-1): Acute Oral Toxicity LD50 (Rat): 3,000 mg/kg. Acute Dermal Toxicity LD50 (Rabbit): >5,000 mg/kg.</p>

TOXIC EFFECTS ON HUMANS	<p>Inhalation: Will cause irritation to the respiratory tract, leading to sore throat, coughing, shortness of breath and delayed lung edema.</p> <p>Ingestion: Will cause circulatory system failure. Causes severe digestive tract burns with abdominal pain, vomiting, and possible death. Will cause corrosion and tissue destruction of the esophagus and digestive tract.</p> <p>Skin contact: Contact with this corrosive liquid will cause burns and ulceration</p> <p>Eye contact: Causes severe burns</p>
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	
ECOTOXICITY DATA	<p>Figures for Sodium Hydroxide (1310-73-2) Toxicity to fish: LC50- Gambusia affinis (Mosquito fish) 125 mg/L/96h, LC50 Oncorhynchus mykiss (rainbow trout) 45.4 mg/L/96h Toxicity to daphnia and other aquatic invertebrates: EC50-Daphnia-40mg/L/48h.</p> <p>Figures for Sodium Gluconate (527-07-1): Acute toxicity to fish LC50, Fathead minnow (Pimephales promelas): >1000 mg / L /96 h. EC50 ,Daphnia magna (Water flea): >500mg /L/ 48 h</p> <p>Figures for D-Glucopyranose, oligomeric, decyl octyl Glycoside (68515-73-1): Acute Toxicity to aquatic invertebrates, EC50, Daphnia magna (water flea): 150 mg/ L /48 h./static test. Acute Toxicity to algae/aquatic plants, EC50: 10-100 mg/ L / 72 h. Ingredient is readily BIODEGRADABLE.</p> <p>Because of the high PH of this product, it would be expected to exhibit moderate toxicity to aquatic organisms.</p>
BIODEGRADABILITY	Does not bioaccumulate. This product will disassociate into ionic form in the aquatic environment. Natural acidity in water and soil and Carbon dioxide will neutralize this product.
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	1824
UN PROPER SHIPPING NAME	SODIUM HYDROXIDE SOLUTION (30-40 %)
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	<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>

SECTION 16 – OTHER INFORMATION	
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TELEPHONE NO.:	416-261-7182
DATE OF THE LATEST REVISION OF SDS:	October 5, 2017