





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

PRODUCT NAME: G.K. LIQUID GUM REMOVER	
HEALTH HAZARD RATING:	(2)- MODERATE HAZARD
FLAMMABILITY HAZARD RATING:	(0)- MINIMAL HAZARD
REACTIVITY HAZARD RATING:	(0)- MINIMAL HAZARD
PERSONAL PROTECTION:	H - (Splash goggles, Gloves, Synthetic apron, Vapor respirator)
HAZARD ALERT SIGN:	 

SECTION 1 – IDENTIFICATION	
PRODUCT IDENTIFIER	
PRODUCT NAME	G.K. LIQUID GUM REMOVER
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	NOT APPLICABLE
TRADE NAME AND SYNONYMS	NOT APPLICABLE
MATERIAL USE	INDUSTRIAL, COMMERCIAL, INSTITUTIONAL

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 6.1
OSHA HAZARDS: Target Organ Effect, Irritant. May cause cancer
Target Organs: Nerves, Kidney, Cardiovascular system, Gastrointestinal tract, Liver.

Signal Words: Danger.

GHS CLASSIFICATION

Skin corrosion / irritation- Category 2
Serious eye damage/ eye irritation - Category 2B
Carcinogenicity- Category 1
Germ Cell Mutagenicity- Category 2
Specific target organ toxicity- single exposure (Narcotic effects) - Category 3.
Specific target organ toxicity –Single Exposure (Respiratory))-Category 3
Aspiration hazard – Category 1
Toxic to the Aquatic Environment- Acute Hazard- Category 2

GHS Label Elements, including precautionary statements: Hazard Statements:

HAZARD STATEMENTS

H304- May be fatal if swallowed and enters airways
H316- Causes skin irritation
H319- Causes serious eye irritation
H336- May cause drowsiness or dizziness
H302- Harmful if swallowed
H331- Toxic if inhaled
H370- Causes damage to organs
H351- Suspected of causing cancer

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

P261- Avoid breathing dust/fumes/gas/mist/vapors/spray
P271- Use only outdoors or in a well-ventilated area
P280- Wear protective gloves / protective clothing / eye protection / face protection
P264- Wash skin thoroughly after handling
P405- Store locked up
P233- Keep container tightly closed.

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.
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 (or hair): Remove/ take off immediately all contaminated clothing. Rinse skin with water/shower

POTENTIAL HEALTH EFFECTS

EYES: Causes serious eye irritation
INHALATION: May be harmful if inhaled. Causes respiratory tract irritation. Vapors may cause drowsiness and dizziness. Aspiration into lungs may cause pneumonia or death
SKIN: May be harmful if absorbed through skin. Causes skin irritation
INGESTION: May be harmful if swallowed



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}
Trichloroethylene	100	75-01-6	Oral (Rat): 5602 mg/kg Dermal (Rabbit): >29000mg/kg	Vapour, Rat inhalation, 4 h. 38.96 mg/L

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	For excessive inhalation remove 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	May be harmful if swallowed. Do not induce vomiting. 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. Danger of aspiration of vomit into the lungs can cause serious damage and chemical pneumonitis.
NOTES TO PHYSICIAN	Treatment based on sound judgment of physician and individual reaction of patient. Eye contact: Causes serious eye irritation. Inhalation: Harmful if inhaled in excessive amounts. Can cause central nervous system depression. May cause drowsiness and dizziness. Skin contact: May cause skin irritation. Ingestion: Can cause central nervous system depression. May be fatal if swallowed and enters airways. Irritating to mouth, throat and stomach.

SECTION 5 – FIRE-FIGHTING MEASURES	
FLASH POINT (°C)	NONE
FLASH POINT METHOD	Not applicable
AUTOIGNITION TEMPERATURE (°C)	420°C (788°F)
UPPER FLAMMABLE LIMIT (% VOL.)	50 %
LOWER FLAMMABLE LIMIT (% VOL.)	8 %
HAZARDOUS COMBUSTION PRODUCTS	Carbon Dioxide, Carbon monoxide, Hydrogen chloride gas, Phosgene
UNUSUAL FIRE/ EXPLOSION HAZARDS	NONE
SENSITIVITY TO MECHANICAL IMPACT	NO
SENSITIVITY TO STATIC DISCHARGE	NO
EXTINGUISHING MEDIA	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	<p>Stop leak and ventilate the area. Move containers from spill area. Absorb spill with vermiculite or other noncombustible absorbent material. Place in a suitable container (with lid tightly covered) for disposal.</p> <p>For large spills, dike spill, recover free liquid, collect with a vacuum cleaner or by wet-brushing. Use absorbent material to dry area. Put all material into appropriate waste containers. Rinse with water. Avoid contaminating ground and surface water.</p>
ENVIRONMENTAL PRECAUTIONARY	Prevent entry into sewers or streams. Any release to the environment may 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

SECTION 7 – HANDLING AND STORAGE	
HANDLING PROCETURES	<p>Avoid contact with eyes. Avoid ingestion. Do not breathe vapors. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Wear personal protective equipment appropriate to task. Use good industrial hygiene practices in handling this product. Keep container closed when not in use. Eating, drinking and smoking should be prohibited in areas where this product is handled, stored and processed. Workers should wash hands and face before eating. Launder contaminated clothing prior to reuse.</p>
STORAGE NEEDS	Keep container tightly closed. Store in a cool area. Keep in the original container or an approved alternative. Store containers carefully and prevent leakage. Store separate from oxidizing materials.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION	
VENTILATION REQUIREMENTS	<p>For outdoors use no critical hazards. For indoor use good ventilation is recommended. Use only with adequate ventilation to prevent build-up of vapors. Open all windows and doors. Use only with a cross ventilation of moving fresh air across the work area. If strong odor is noticed or you experience slight dizziness, headache, nausea, or eye-watering- STOP- ventilation is inadequate. Leave area immediately. When the following figures listed are exceeded provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective.</p> <p>Occupational exposure limits</p> <p>For Trichloroethylene (79-01-6) (This ingredient is >80 % of the formulation): ACGIH TLV- TWA: 10 ppm. ACGIH TLV STEL: 25 ppm. OSHA PEL: 100 ppm (540 mg/m³). NIOSH IDLH (immediate danger): 1000 ppm (5,400 mg/m³)</p>

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 or face shields are recommended to safeguard against potential eye contact, irritation, or injury.
RESPIRATORY/TYPE	Approved/ certified vapor respirator
GLOVE/TYPE	Nitrile, butyl impervious gloves
FOOTWEAR/TYPE	Boots
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	Clear thin liquid
ODOUR	Sweet ether-like
ODOUR THRESHOLD (PPM)	80-100 ppm
PH	Not available
MELTING POINT (°C)	See freezing point
BOILING POINT (°C)	82.2° C (188.96° F). Initial B.P.
FREEZING POINT (°C)	-73° C (-99° F)
EVAPORATION RATE	4.5-4.9 (n-Butyl Acetate=1)
FLAMMABILITY	Not applicable
FLASH POINT (°C)	Not applicable
AUTO IGNITION TEMPERATURE	420° C (788° F)
DECOMPOSITION TEMPERATURE	Not available
VAPOUR DENSITY	(air= 1) 4.5
VAPOUR PRESSURE	@ 20° C) 60mmHg
SOLUBILITY	1.1 gm/L soluble in water
VISCOSITY	Thin liquid
% VOLATILE BY VOLUME	100 %
SPECIFIC GRAVITY	1.49 ± 0.02 gm / cm ³

SECTION 10 – STABILITY AND REACTIVITY

REACTIVITY	Not self-reactive, self-heating
CHEMICAL STABILITY	Stable
POSSIBILITY OF HAZARDOUS REACTIONS	Under normal conditions hazardous reaction will not occur.
CONDITIONS TO AVOID	Avoid open flame. Avoid incompatible materials. Do not allow vapors to accumulate in low or confined areas.
INCOMPATIBLE MATERIALS	Strong oxidizing agents e.g. Chlorine, Peroxides. May attack some plastic materials
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon Dioxide (CO ₂), Carbon monoxide, Hydrogen chloride, Phosgene

SECTION 11 – TOXICOLOGICAL INFORMATION

TOXICITY EFFECTS ON ANIMALS	For Trichloroethylene (79-01-6): Acute Oral Toxicity LD50 (Rat): 5,602 mg/kg. Acute Dermal Toxicity LD50 (Rabbit): 29,000 mg/kg. LC50 (4 h), Inhalation, Rat: 38.96 mg /L
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TOXIC EFFECTS ON HUMANS	Hazardous in case of ingestion or inhalation. Hazardous in case of skin contact. Skin contact can cause redness, irritation and drying. Severity depends on the amount and duration of exposure. Eyes: Vapors may be irritating to the eyes. Liquid contact will cause stinging and tearing. May cause corneal injury. Inhalation: Excessive inhalation of high concentrations may be harmful. Mist or vapor can irritate the throat and lungs. Breathing excessive amount of this product may cause central nervous system depression, intoxication, may cause drowsiness, headaches, dizziness. May cause carboxyhemoglobinemia, thereby impairing the blood's ability to transport oxygen. Ingestion: If swallowed this material may irritate the mucous membranes of the mouth throat and esophagus. Aspiration of this material into the lungs may result in damage or death.
CHRONIC EFFECTS ON HUMANS	Reports have associated repeated and prolonged overexposure to solvents with neurological and other physiological damage. May cause anemia, bone marrow, liver damage. Repeated or prolonged skin contact may cause redness, irritation, and scaling of the skin.
CARCINOGENICITY	Trichloroethylene has been shown to increase the incidence of malignant tumors in mice and benign tumors in rats. May pose cancer risk in humans. This product is classified as hazardous under U.S. OSHA regulations (29cfr 1910.1200)
TERATOGENICITY	No evidence
MUTAGENICITY	Suspected of causing genetic defects.
REPRODUCTIVE EFFECTS	No evidence

SECTION 12 – ECOLOGICAL INFORMATION	
ECOTOXICITY DATA	Product expected to be toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment. MOBILITY: Mostly volatile material and will partition rapidly to air. Not expected to partition to sediment and wastewater solids. For Trichloroethylene (79-01-6): Acute Toxicity to fish, LC50 Fathead minnow (Pimephales promelas): 21.9 mg /L / 96 h. Acute Toxicity to aquatic invertebrates EC50, Daphnia magna (Water flea): 18 mg / L / 48 h. Acute Toxicity to algae/ aquatic plants, EC50, Pseudokirchneriella subcapitata (Green algae): 450 mg / L / 96 h. Material is not readily biodegradable.
BIODEGRADABILITY	NO
PRODUCTS OF DEGRADATION	No data

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	1710
UN PROPER SHIPPING NAME	TRICHLOROETHYLENE
TRANSPORT HAZARD CLASS	CLASS: 6.1
PACKAGING GROUP	Pk: III
ENVIRONMENTAL HAZARDS	Marine pollutant
TRANSPORT IN BULK, if applicable	NOT AVAILABLE
SPECIAL PRECAUTIONS	Guide to Canadian transportation. Emergency Response Guidebook (ERG): # 160

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 2, 2017