



G.K. Chemical Specialties Co. Inc.
90 Barbados Blvd.
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Tel: (416) 261-7182 Fax: (416) 261-5663

Material SAFETY DATA SHEET

PRODUCT NAME: G.K. Spot and Stain Remover Solvent Based

HEALTH HAZARD RATING:	MODERATE HAZARD – temporary or minor injury may occur
FLAMMABILITY HAZARD RATING:	SLIGHT HAZARD – materials that must be preheated before ignition will occur. Flammable liquids in this category will have flash points (the lowest temperature at which ignition will occur) at or above 200 °F. (NFPA Class II and Class IIA)
REACTIVITY HAZARD RATING:	SLIGHT HAZARD – materials which are normally stable, but can become unstable at high temperatures and pressures. These materials may react with water, but will not release energy violently.
PERSONAL PROTECTION:	Safety glasses + Gloves + Vapour respirator
HAZARD ALERT SIGN:	HEALTH HAZARD – Hazardous FIRE HAZARD – Above 200 °F REACTIVITY – Unstable if heated SPECIFIC HAZARD –

SECTION I – MATERIAL IDENTIFICATION AND USE / IDENTIFICATION DE LA MATIÈRE ET USAGE

MATERIAL NAME / IDENTIFIÉRIER – NOM / IDENTIFICATION DE LA MATIÈRE

G.K. Spot and Stain Remover Solvent Based

MANUFACTURER'S NAME AND ADDRESS/ NOM DU FABRICANT – ADRESSE EMERGENCY PHONE NO. / N° DE TÉLÉPHONE D'URGENCE	G.K. Chemical Specialties Co. Inc. 90 Barbados Blvd. Scarborough, Ontario M1J 1K9 (416) 261-7182 / 905 427-7605
SUPPLIER'S NAME AND ADDRESS/ NOM DU FOURNISSEUR - ADRESSE EMERGENCY PHONE NO. / N° DE TELEPHONE DURGENGE	
CHEMICAL NAME / DÉNOMINATION CHIMIQUE	Not Applicable
CHEMICAL FAMILY / FAMILLE CHIMIQUE	Chlorinated hydrocarbon
CHEMICAL FORMULA / FORMULE CHIMIQUE	Not Applicable
TRADE NAME AND SYNONYMS / APPELLATION COMMERCIALE ET SYNONYMES	Not Applicable
MOLECULAR WEIGHT / POIDS MOLÉCULAIRE	Not Applicable
MATERIAL USE / UTILISATION DE LA MATIÈRE	Cleaning

G.K. Chemical Specialties Co. Inc. has compiled the information and recommendations contained in this Material Safety Data Sheet from sources believed to be reliable and to represent the most reasonable current opinion on the subject when the MSDS 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 MSDS 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 MSDS, 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.

SECTION II – HAZARDOUS INGREDIENTS OF MATERIAL / INGRÉDIENTS DANGEREUX DE LA MATIÈRE

HAZARDOUS INGREDIENTS / INGRÉDIENTS DANGEREUX	APPROXIMATE CONCENTRATION % APPROXIMATIVE %	C.A.S., N.A. OR U.N. NUMBERS / NUMERO CAS NA OU CNU	LD50 {SPECIFY SPECIES & ROUTE} DL50 {PRÉCISER L'ESPECE ET LA VOIE D'ADMINISTRATION}	LC 50 {SPECIFY SPECIES & ROUTE} CL50 {PRÉCISER L'ESPECE ET LA VOIE D'ADMINISTRATION}
Gemalgene	60-100	79-01-6	LD50 (Oral Rat) 50-500 mg/kgm TLV 50 PPM Short Term Inhalation Limits: 200 PPM for 30 min	
Ethylene Glycol Monobutyl Ether	5-10	111-76-2	LD50 (Oral Rat) 500 mg – 5000 mg/kgm TLV 25 PPM	
Octyl phenol ethoxylate	1-5	9036-19-5	LD50 (Oral Rat) 1800mg/kgm	
Isopropylamine alkylaryl sulfonate	1-5	26264-05-1	Not Established	

SECTION III – PHYSICAL DATA FOR MATERIAL / CARACTÉRISTIQUES PHYSIQUES DE LA MATIÈRE

PHYSICAL STATE / ÉTAT PHYSIQUE	Liquid
ODOUR AND APPEARANCE / ODEUR ET APPARENCE	Clear liquid chlorinated hydrocarbon odour
ODOUR THRESHOLD (P.P.M.) / SEUIL DE L'ODEUR (PPM)	50 PPM
SPECIFIC GRAVITY / DENSITÉ RELATIVE	1.38 ± 0.02 gm/cm ³ at 20 °C
VAPOUR PRESSURE [MM] / TENSION DE VAPEUR [MM]	< 58 at 25 °C
VAPOUR DENSITY [AIRE = 1] / DENSITÉ DE VAPEUR [AIR =1]	> 4.5
EVAPORATION RATE / TAUX D'ÉVAPORATION	< 4,50 n-Butyl Acetate = 1
BOILING POINT [°C] / POINT D'ÉBULLITION [°C]	87 °C 189 °F
FREEZING POINT [°C] / POINT DE CONGÉLATION [°C]	-70 °C
SOLUBILITY IN WATER [20°C] / SOLUBILITÉ DANS L'EAU [20°C]	Soluble
% VOLATILE [BY VOLUME] / % VOLATILITÉ [PAR VOLUME]	94 ± 1
PH	Not Applicable
COEFFICIENT OF WATER / OIL DISTRIBUTION / COEFFICIENT DE RÉPARTITION EAU / HUILE	Not Applicable

SECTION IV – FIRE AND EXPLOSION HAZARD OF MATERIAL/RISQUES D'INCENDIE ET D'EXPLOSION DU MATÉRIEL

FLAMMABILITY / INFLAMMABILITÉ <input type="checkbox"/> YES / OUI <input checked="" type="checkbox"/> NO/NON IF YES, UNDER WHICH CONDITIONS? / SI OUI, DANS QUELLES CONDITIONS?	Practically non flammable under conditions likely to be encountered
MEANS OF EXTINCTION / MOYENS D'EXTINCTION	Water may be used to keep fire-exposed containers cool.
SPECIAL PROCEDURES / MARCHE À SUIVRE SPÉCIALE	Wear self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode when fighting fires.
FLASHPOINT [°C] AND METHOD / POINT D'ÉCLAIR [°C] ET MÉTHODE DE DÉTERMINATION	None TAG O.C.

UPPER EXPLOSION LIMIT [% BY VOLUME]/ SEUIL MAXIMAL D'INFLAMMABILITÉ [% PAR VOLUME]	8
LOWER EXPLOSION LIMIT [% BY VOLUME]/ SEUIL MINIMAL D'INFLAMMABILITÉ [% PAR VOLUME]	10.5
AUTOIGNITION TEMPERATURE [°C]/ TEMPÉRATURE D'AUTO-INFLAMMATION [°C]	410 °C (770 °F)
HAZARDOUS COMBUSTION PRODUCTS / PRODUITS DE COMBUSTION DANGEREUX	Irritating fumes

EXPLOSION DATA / DONNÉES SUR L'EXPLOSIBILITÉ

SENSITIVITY TO MECHANICAL IMPACT / SENSIBILITÉ AUX CHOCS	Not Applicable
SENSITIVITY TO STATIC DISCHARGE / SENSIBILITÉ AUX DÉCHARGES ÉLECTROSTATIQUES	Not Applicable

SECTION V – REACTIVITY DATA / DONNÉES SUR LA RÉACTIVITÉ

CHEMICAL STABILITY / STABILITÉ CHIMIQUE <input checked="" type="checkbox"/> YES / OUI <input type="checkbox"/> NO/NON IF NO, UNDER WHICH CONDITIONS? / SI NON-, DANS QUELLES CONDISIONS?	Under normal conditions product is stable. Avoid open flames, welding arcs or other high temperature sources which induce thermal decomposition releasing Hydrogen chloride and small amounts of phosgene and chlorine.
INCOMPATIBILITY TO OTHER SUBSTANCES / INCOMPATIBILITÉ AVEC D'AUTRES SUBSTANCES <input checked="" type="checkbox"/> YES / OUI <input type="checkbox"/> NO/NON IF SO, WHICH ONES? / SI OUI, AVEC LESQUELLES?	Strong caustics, amines, aluminum, possibly sodium, potassium and magnesium.
REACTIVITY AND UNDER WHAT CONDITIONS / RÉACTIVITÉ – DANS QUELLES CONDITIONS?	Contact with high temperature sources
HAZARDOUS DECOMPOSITION PRODUCTS / PRODUITS DE DÉCOMPOSITION DANGEREUX	Hydrogen chloride and small amounts of phosgene and chlorine.

SECTION VI – TOXICOLOGICAL PROPERTIES OF MATERIAL / PROPRIÉTÉS TOXICOLOGIQUES DE LA MATIÈRE

ROUTE OF ENTRY / VOIE D'ADMINISTRATION

SKIN CONTACT / CONTACT AVEC LA PEAU SKIN ABSORPTION / ABSORPTION PAR LA PEAU
 EYE CONTACT / CONTACT OCULAIRE INHALATION ACUTE / INHALATION AIGUE
 INHALATION CHRONIC / INHALATION CHRONIQUE INGESTION

EFFECTS OF ACUTE EXPOSURE TO MATERIAL / EFFETS DE L'EXPOSITION AIGUE A LA MATIÈRE	EYE CONTACT: If splashed in the eyes, may cause irritation, burning and damage. Vapours may be irritating to eyes. SKIN CONTACT: Will cause irritation. Repeated or prolonged contact may cause drying or flaking of skin, or dermatitis. SKIN ABSORPTION: A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts. INGESTION: Can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration of the material into the lungs can cause chemical pneumonitis, which can be fatal.
EFFECTS OF CHRONIC EXPOSURE TO MATERIAL / EFFETS DE L'EXPOSITION CHRONIQUE A LA MATIÈRE	INHALATION: Symptoms range from irritation of the nose and throat to nausea, an attitude of irresponsibility, blurred vision and finally disturbance of central nervous system resulting in cardiac failure. Chronic exposure may cause organic injury.

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LD 50 OF MATERIAL [SPECIFY SPECIES & ROUTE]/LD50 DE LA MATIÈRE [PRÉCISER L'ESPECE ET LA VOIE D'ADMINISTRATION]	LD50 (Oral Rat) 50-500 mg/kgm
LC50 OF MATERIAL [SPECIFY SPECIES & ROUTE] LC50 DE LA MATIÈRE / [PRÉCISER L'ESPECE ET LA VOIE D'ADMINISTRATION]	Not Established
EXPOSURE [LIMITS] / LIMITS D'EXPOSITION	> 35 PPM / Short Term Inhalation 200 PPM for 30 min.
IRRITANCY OF MATERIAL/PROPRIÉTÉ IRRITANTE DE LA MATIÈRE	Eyes, Skin, Respirator System
SENSITIZATION OF MATERIAL / SENSIBILISATION A LA MATIÈRE	Eyes, Skin, Respirator System
SYNERGISTIC MATERIALS / MATÈRES SYNERGIQUES	None Known
CARCINOGENICITY, REPRODUCTIVE EFFECTS, TERATOGENICITY, MUTAGENICITY / CANCÉROGÉNÉCITÉ, EFFETS NOCIFS SUR LA REPRODUCTION, TÉRATOGÉNÉCITÉ, MUTAGÉNÉCITÉ	Over exposure can raise the level of carbon monoxide in the blood causing cardiovascular stress. Results of laboratory animal tests showed benign tumors in rats exposed above TLV values, cancer in rats and mice exposed to high concentrations. Limited epidemiological studies failed to show a tumorigenic response in plant workers. This product is not believed to pose a measurable cancer risk to man when handled as recommended. Laboratory animal studies to evaluate potential birth defects and effects on reproduction show: A low degree of maternal and embryotoxicity at 4500 PPM; No Teratological effects and no effects on reproduction at concentrations of 4500 and 1225 PPM

SECTION VII – PREVENTIVES MEASURES / MESURES PRÉVENTIVES**PERSONAL PROTECTIVE EQUIPMENT / MATÉRIEL PERSONNEL DE PROTECTION**

GLOVES (SPECIFY) GANTS [PRÉCISER]	Wear resistant gloves such as polyethylene
EYE [SPECIFY] / YEUX [PRÉCISER]	Glasses, Goggles
RESPIRATORY (SPECIFY) / APPAREIL RESPIRATOIRE (PRÉCISÉR)	If workplace exposure limit(s) of product or any component is exceeded, a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. Engineering or administrative controls should be implemented to reduce exposure.
OTHER (SPECIFY) / AUTRES (PRCISER)	Selection of specific items such as gloves, boots, apron or full-body suit will depend on operation.
ENGINEERING CONTROLS [E.G. VENTILATION, ENCLOSED PROCESS, SPECIFY] / MÉCANISMES TECHNIQUES [EX. VENTILATION, OPÉRATION EN MILIEU FERMÉ, PRÉCISER]	Provide sufficient mechanical (general and or local exhaust) ventilation to maintain exposure below TLV(s).
LEAK AND SPILL PROCEDURE / MESURES EN CAS DE FUITE OU DE DÉVERSEMENT	Small Spill: Absorb liquid on vermiculite, floor absorbent or other absorbent material and transfer to hood. Large Spill: Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source, dike area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, floor absorbent and shoveled into containers.

WASTE DISPOSAL / ÉLIMINATION DES RÉSIDUS	May be dangerous to aquatic life if product enters water intakes. Small Spill: Dispose off in accordance with all local, provincial and federal regulations. Large Spill: Dispose off in accordance with all regulations, destroy by incineration in accordance with applicable regulations is the preferred method.
HANDLING PROCEDURES AND EQUIPMENTS / MÉTHODES ET ÉQUIPEMENT POUR LA MANUTENTION	Avoid contact with eyes, skin, and clothing. Avoid breathing vapours.
STORAGE REQUIREMENTS / EXIGENCES D'ENTREPOSAGE	Store in closed containers in a cool place away from children.
SPECIAL SHIPPING INFORMATION / RENSEIGNEMENTS SPÉCIAUX POUR L'EXPÉDITION	Trichloroethylene (R1120) Class 9.2 PIN #1710 packing group III

SECTION VIII – FIRST AID MEASURES / PREMIERS SOINS

EYE CONTACT: Flush with large amounts of water, lifting upper and lower lids occasionally. Get medical attention.

SKIN CONTACT: Thoroughly wash exposed area with soap and water. Remove contaminated clothing. Launder contaminated clothing before re-use.

IF SWALLOWED: Do not induce vomiting, keep person warm, quiet and get medical attention. Aspiration of material into lungs due to vomiting can cause chemical pneumonitis, which can be fatal.

IF BREATHED: If affected, remove individual to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. Keep person warm, quiet and get medical attention.

ADDITIONAL INFORMATION / RENSEIGNEMENTS SUPPLÉMENTAIRES

SECTION IX – PREPARATION DATE OF M.S.D.S. / FICHE SIGNALÉTIQUE

PREPARED BY: Gus Kaklamanos - CHEMIST

TELEPHONE NO.: (416) 2617182

DATE: January 5, 2015

ADDITIONAL NOTES OR REFERENCES / NOTES ADDITIONNELLES OU RÉFÉRENCES:

WHMIS Classification: Class D, DIV 2, SUB A and SUB B