

G.K. Chemical Specialties Co. Inc. 90 Barbados Blvd. Scarborough, Ontario M1J 1K9 Tel: (416) 261-7182 Fax: (416) 261-5663

## Material SAFETY DATA SHEET

**PRODUCT NAME: G-460 Engine Shampoo** 

HEALTH HAZARD RATING:	MINIMAL HAZARD - no significant risk to health	
FLAMMABILITY HAZARD	MODERATE HAZARD - materials which must be moderately heated before ignition	
RATING:	will occur, including flammable liquids with flash points at or above 100 °F and	
RITHIO.	below 200 °F. (NFPA Class II and Class IIA)	
REACTIVITY HAZARD	MINIMAL HAZARD – materials, which are normally stable, even under fire	
RATING:	conditions, and which will not react with water.	
KATIVO.		
PERSONAL PROTECTION:	Safety glasses + gloves	
HAZARD ALERT SIGN:	HEALTH HAZARD – Normal material	
	FIRE HAZARD – Below 200 °F	
	REACTIVITY – Stable	
	SPECIFIC HAZARD –	

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

# MATERIAL NAME / IDENTIFIER – NOM / IDENTIFICATION DE LA MATIÉRE G-460 Engine Shampoo

MANUFACTURER'S NAME AND ADDRESS/	G.K. Chemical Specialties Co. Inc.
NOM DU FABRICANT – ADRESSE EMERGENCY PHONE NO. / N° DE TÉLÉPHONE D'URGENCE	90 Barbados Blvd.
EMERGENCI THORE NO. / N DE TELETHORE D'ORGENCE	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 DURGENCE	
CHEMICAL NAME / DÉNOMINATION CHIMIQUE	Not Applicable
CHEMICAL FAMILY / FAMILLE CHIMIQUE	Petroleum Distillate
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 MATIÉRE	Cleaning, Degreasing

- 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.

<u>INGREDIENTS.</u> 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.

- <u>T.L.V.</u> (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.
- "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.

<u>FLASH POINT.</u> 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 MATIÉRE				
HAZARDOUS INGREDIENTS / INGREDIENTS DANGEREUX	APPROXIMATE CONCENTRATION% CONCENTRATION APROXIMATIVE %	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
Petroleum Distillate	70-90	64742-47-8	LD 50 Oral, Rat 5000-1 200 PPM	5000 mg/kgm TLV
Isopropylamine Alkyl-Lauryl Sulfonate	3-7	26264-05-1	Non Hazardous	
Alkyl Ethoxylate Non Ionic Surfactant	3-7	9016-45-9	LD 50 Oral, Rat 3000 n LD 50 Dermal Rabbit 2	~ ~

SECTION III - physical data for material / caractéristiques physiques de la matiére

SECTION III III SICHE BRITTON WITHERE PERME	CIEMSIIQUES I MISIQUES DE EM MITTERE
PHYSICAL STATE / ÉTAT PHYSIQUE	Liquid
ODOUR AND APPEARANCE / ODEUR ET APPARENCE	Clear to yellow liquid, Petroleum Odour
ODOUR THRESHOLD (P.P.M.) / SEUIL DE L'ODEUR (PPM)	1 PPM
SPECIFIC GRAVITY / DENSITE RELATIVE	$0.84 \pm 0.02$ gm/cm <sup>3</sup>
VAPOUR PRESSURE [MM] / TENSION DE VAPEUR [MM]	0.4 at 20 °C
VAPOUR DENSITY [AIRE = 1] / DENSITE DE VAPEUR [AIR =1]	>1
EVAPORATION RATE / TAUX D'ÉVAPORATION	< 0.2 n-Butyl Acetate=1
BOILING POINT [°C] / POINT D'ÉBULLITION [°C]	177-272 °C
FREEZING POINT [°C] / POINT DE CONGELATION [°C]	Not Applicable
SOLUBILITY IN WATER [20°C] / SOLUBILITÉ DANS L'EAU [20°C]	Soluble
% VOLATILE [BY VOLUME] / % VOLATILITÉ [PAR VOLUME]	90 <u>+</u> 1%
РН	Not Applicable
COEFFCIENT 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 _X_ YES / OUI NO/NON IF YES, UNDER WHICH CONDITIONS? / SI OUI, DANS QUELLES CONDISIONS?	Heat, Source of ignition
MEANS OF EXTINCTION / MOYENS D'EXTINCTION	Use alcohol foam, carbon dioxide, water spray or fog.
	Vapour may form an explosive mixture between upper and
	lover flammable limits.
SPECIAL PROCEDURES / MARCHE A SUIVRE SPÉCIALE	Do not use water except as fog. Wear self-contained
	breathing apparatus with a full-face piece operated in the
	positive pressure demand mode when fighting fires. Vapours
	from this product may travel or be moved by air currents and
	be ignited by pilot lights, or other ignition sources at
	locations distant from the point of handling.
FLASHPOINT [°C] AND METHOD / POINT D'ÉCLAIR [°C] ET MÉTHODE DE DÉTERMINATION	64 °C (148 °F) C.C.

UPPER EXPLOSION LIMIT [% BY D'INFLAMMABILITÉ [% PAR VO	Y VOLUME]/ SEUIL MAXIM. DLUME]	AL	1.0		
LOWER EXPLOSION LIMIT [% B D'INFLAMMABILITÉ [% PAR VO	IMIT [% BY VOLUME]/ SEUIL MINIMAL % PAR VOLUME]		8.0		
AUTOIGNITION TEMPERATURE INFLAMMATION [°C]	AUTOIGNITION TEMPERATURE [°C] / TEMPÉRATURE D'AUTO- INFLAMMATION [°C]		Not Established		
HAZARDOUS COMBUSTION PRO COMBUSTION DANGEREUX	ARDOUS COMBUSTION PRODUCTS / PRODUITS DE BUSTION DANGEREUX		CO, CO2, Aldehydes		
EXPLOSION DATA / DO	NNÉES SUR L'EXPL	OSIR	HITÉ		
SENSITIVITY TO MECHANICAL AUX CHOCS			, may ignite		
SENSITIVITY TO STATIC DISCH DÉCHARGES ÉLECTROSTATIQUE		Yes	s, may ignite		
-					
SECTION V - REACTIVE CHEMICAL STABILITY / STABIL			A RÉACTIVITÉ		
	TTE CHIMIQUE <u>x</u> YES/C	JUI			
NO/NON IF NO, UNDER WHICH CONDITION CONDISIONS?	ONS? / SI NON, DANS QUELI	LES			
INCOMPATIBILITY TO OTHER SUBSTANCES / INCOMPATIBILITÉ AVEC D'AUTRES SUBSTANCES _X_ YES / OUI NO/NON		S /	Strong Oxidizing agents, alkaline materials mineral acids, halogens		
IF SO, WHICH ONES? / SI OUI, A	VEC LESQUELLES?				
REACTIVITY AND UNDER WHAT DANS QUELLES CONDITIONS?	F CONDITIONS / RÉACTIVIT	TÉ –	With common material no reaction		
HAZARDOUS DECOMPOSITION PRODUCTS / PRODUITS DE DÉCOMPOSITION DANGEREUX		Carbon Monoxide, Carbon Dioxide and Aldehydes on burning.			
SECTION VI – TOXICOLO MATIÉRE	OGICAL PROPERTIES O	F MAT	FERIAL / PROPRIÉTÉS TOXICOLOGIQUES DE LA		
ROUTE OF ENTRY / VOIE D'ADM	IINISTRATION				
X SKIN CONTACT / CONTACT	AVEC LA PEAU		SKIN ABSORPTION / ABSORPTION PAR LA PEAU		
X EYE CONTACT / CONTACT OCULAIRE		X INHALATION ACUTE / INHALATION AIGUE			
_ INHALATION CHRONIC / IN	HALATION CHRONIQUE	•	X INGESTION		
EFFECTS OF ACUTE	EYE CONTACT: Will	cause	irritation		
EXPOSURE TO MATERIAL /	SKIN CONTACT: will cause irritation, may cause defatting dermatitis.				
EFFETS DE L'EXPOSITION AIGUE A LA MATIERE			tic may cause nausea, vomiting and diarrhea.		
	Large amounts may cause serious harm.				
	INHALATION: Breathing excessive amounts of vapours, may cause nasal and respiratory				
EFFECTS OF CHRONIC	irritation  Prolonged exposure to b	igh ac	ancentrations of vanours may result in central nervous		
EXPOSURE TO MATERIAL / EFFETS DE L'EXPOSITION CHRONIQUE A LA MATIERE	Prolonged exposure to high concentrations of vapours may result in central nervous depression and narcosis.				
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## MATERIAL NAME / IDENTIFIER - NOM / IDENTIFICATION DE LA MATIÉRE $\downarrow$

G-460 Engine Shampoo			
LD 50 OF MATERIAL [SPECIFY SPECIES & ROUTE] / LD50 DE LA MATIÉRE [PRECISER L'ESPECE ET LA VOIE D'ADMINISTRATION]		50 Oral, Rat 5,000-15,000 mg/kgm	
LC50 OF MATERIAL [SPECIFY SPECIES & ROUTE] LC50 DE LA MATIÉRE / [PRECISER L'ESPECE ET LA VOIE D'ADMINISTRATION]		Not Established	
EXPOSURE [LIMITS] / LIMITS D'EXPOSITION		V 200 PPM short-term inhalation limits 2500 mg/m <sup>3</sup> 60 min.	
IRRITANCY OF MATERIAL/PROPRIÉTÉ IRRITANTE DE LA MA		es, Skin, respiratory tract	
SENSITIZATION OF MATERIAL / SENSIBILISATION A LA MATIÉRE		es, Skin, respiratory tract	
SYNERGISTIC MATERIALS / MATÉRES SYNERGIQUES		ne Known	
CARCINOGENICITY, REPRODUCTIVE EFFECTS, TERATOGENICITY, MUTAGENCITY / CANCÉROGÉNICITÉ, EFFETS NOCIFS SUR LA REPRODUCTION, TÉRATOGÉNÉCITÉ, MUTAGÉNICITÉ		ne of the ingredients contained in this product are ulated as carcinogens by OSHA	
SECTION VII - PREVENTIVES MEASURES / MESU			
PERSONAL PROTECTIVE EQUIPMENT / MAT			
GLOVES (SPECIFY) GANTS [PRÉCISER]		tant such as: Neoprene, Nitrile Rubber	
EYE [SPECIFY] / YEUX [PRÉCISER]		es, goggles	
(PRECISER) exceed		rorkplace exposure limits of product or any component is eeded, a NIOSH / MSHA approved air supplied respirator is ised in absence of proper environmental control.	
OTHER (SPECIFY) / AUTRES (PRCISER)	Normal wo	nal work clothing covering arms and legs.	
ENGINEERING CONTYROLS [E.G. VENTILATION, ENCLOSED PROCESS, SPECIFY] / MÉCANISMES TECHNIQUES [EX. VENTILATION, OPÉRATION EN MILIEU FERMÉ, PRÉCISER]		vide sufficient mechanical (general and/or local) ventilation naintain exposure below TVLS	
LEAK AND SPILL PROCEDURE / MESURES EN CAS DE FUITE OU DE DÉVERSEMENT			
WASTE DISPOSAL / ÉLIMINATION DES RÉSIDUS	SMALL SPILL: Allow volatile portion to evaporate in hood. Dispose of remaining material in accordance with applicable regulations.  LARGE SPILL: Destroy by liquid incineration. Contaminated absorbent may be deposited in a landfill in accordance with local, provincial and federal regulation. Send to an approved reclaimer.		
HANDLING PROCEDURES AND EQUIPMENTS / MÉTHODES ET ÉQUIPEMENT POUR LA MANUTENTION	Avoid any source of ignition. Keep out of reach of children. Avoid contact with eyes, skin, and clothing.		
STORAGE REQUIREMENTS / EXIGENCES D'ENTREPOSAGE	Store in a configuration.	ool place in closed containers away from any source	
SPECIAL SHIPPING INFORMATION / RENSEIGNEMENTS SPÉCIAUX POUR L'EXPÉDITION	None Requ	ired	

### **SECTION VIII – FIRST AID MEASURES / PREMIERS SOINS**

SKIN CONTACTED: Thoroughly wash exposed area with soap and water remove contaminated clothing. Launder contaminated clothing before re use.

EYES CONTACTED: Flush with large amounts of water, lifting upper and lower lids occasionally. Get medical attention if irritation persists.

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

BREATHED: If affected, remove individual to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration 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:

Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. All five-gallon pails and larger metal containers including tank cars and tank trucks should be grounded when material is transferred. Containers of this product may be hazardous when emptied. Since emptied containers retain product residues (vapours, liquid, and/or solids), all hazard precautions given in the data sheet must be observed.

WHMIS CLASSIFICATION: CLASS B, DIV. 3