KLEEN-FLO TUMBLER IND	MATERIAL SAFETY DATA SHEET								
SECTION I-MATERIAL IDEN	TIFICATION AND	<u>USE</u>							
Material Name/Identifier:	Diesel Fuel Conditioner		Stock No.		991/992/993/994/995/998				
Manufacturer's Name:	Kleen-Flo Tumbler Industries Ltd		Street Address:		75 Advance Blvd.				
City:	Brampton		Province:		Ontario				
Postal Code:	L6T 4N1		Emergency Phone #:		CANUTEC:- 613-996-6666 (24HR)				
Chemical Name:	N.Ap. (mixture)		Chemical Family:		Blend of aliphatic alcohol &				
Therefore (Hilland)					aromatic hydrocarbons.				
Chemical Formula:	N/Ap.(mixture)		Trade Names & Synonyms: Diesel Fuel Conditioner						
Material Use:	disesel fuel additive		Molecular Weight:		. 210,0011 401	N/Av. (Mixture)			
SECTION II-HAZARDOUS IN	GREDIENTS OF MA	ATERIAL							
Hazardous		Approximate	LD5	0		LC50			
Ingredients	C.A.S.	Concentration	Species &	Species & Route		Species & Route			
2-propanol	67-63-0	60-100%	5045 mg/kg 1	5045 mg/kg rat-oral		16000 ppm (4hr) rat-inh.			
Dimethylbenzene	1330-20-7	10-30%	4300 mg/kg 1	rabbit-dermal	5000 ppm (4hr) rat-inh.				
Ethyl benzene	100-41-4	1-5%	3500mg/kg r	at-oral	4000 ppm(4h	ır) rat-inhal			
SECTION III-PHYSICAL DAT	A FOR MATERIAL	<u>.</u>							
Physical State:	Liquid	Odour/Appearance:	/Appearance: Colourless,		water white liquid, alcohol odour				
Specific Gravity:	0.8 @ 15°C	Odour Threshold(p.p.n	n.):	N/E					
Boiling Point:	82-137°C	Evaporation Rate:	N/E						
Freezing Point:	N/Av.	Solubility in Water:	Partly soluble						
% Volatile(by volume):	100%	Vapour Pressure(mm)l	Hg:	33.0 mmHg @ 20°C					
Vapour Density(Air=1):	>1	Coefficient of Water/O							
pH	N.Ap.								
SECTION IV-FIRE AND EXPI	LOSION HAZARD O	OF MATERIAL							
Flammability Yes/No	Yes	If yes under which conditions? Heat, Open flame, spark							
Auto Ignition Temperature	N/E	v/E		Means of Extinguishing: Dry chemical, Carbon dioxide,					
			Alcohol - resistant foam.						
Flashpoint and Method:	t and Method: 11°C TCC Hazardous Combustion Products:					Carbon mono	oxide,		
			carbon dioxi	carbon dioxide, hydrocarbon fumes & smoke					
Upper Flammable limit (%vol)	12	Lower Flammable Limit(% by volume): 1							
Explosion Data:	Sensitivity to Mech.	Sensitivity to Static Discharge: Electrical & mechanical							
	equipment should be explosion proof and grounded.								
SECTION V-REACTIVITY DA	<u>ATA</u>								
Chemical Stability Yes/No:	Yes	If NO under	which conditi	ons?		N.Ap.			
Incompatibility to Other Substances Yes/No:		Yes	If so which ones? strong oxidizing						
1									
Reactivity and under what cond	Normally stable but ca	Chlorine. May react with aluminum equipment at temperature above 120°F can become unstable at elevated temp. and pressure.							
Hazardous Decomposition Prod	Carbon monoxide, carbon dioxide produced on combustion.								
N/E: not established		N.Ap.: not ap	plicable			N/Av.: not av	ailable		

Material Name/Identifier:	Diesel Fuel Conditioner	Stock No.	991/992/993/	994/995/998		PAGE 2				
GEOTION VI TOVICOI OCIO	AL PROPERTIES OF PROPILST									
SECTION VI-TOXICOLOGICA	AL PROPERTIES OF PRODUCT									
Route of Entry:	SKIN CONTACT -x-SKIN ABSORPTION -x-EYE CONTACT -x-INHALATION -x-INGESTION									
Effects of Acute Exposure:	Eye, Skin irritation. May cause headache, dizziness, nausea, drowsiness and central nervous system depression.									
Effects of chronic exposure:	High exposure to dimethylbenzene to some animal studies have been reported to cause health effects on									
	developing embryo/fetus. These effects were often at levels toxic to mother. The significance of these findings to									
	humans has not been determined.									
LD 50 of Product:	N/E	LC 50 of P	LC 50 of Product: N/E							
Irritancy of Product:	skin and eye irritant	Exposure L	Exposure Limits: IPA 400 ppm STEL (ACGIH)							
Sensitization of Product:	N/Av.	Xylene 150	Xylene 150 ppm STEL, Ethyl benzene 100 ppm STEL							
		Toxicologic	ally Synergistic	Materials:	N/A	Av.				
CARCINOGENICITYREP	RODUCTIVE EFFECTSTERATOGE	NICITYMUTA	GENICITY		None known					
Ethyl benzene is listed as possibl	e carcinogenic by IARC.									
SECTION VII-PREVENTIVE N	MEASURES									
Personal Protective Equipment t	o be used:									
Gloves(specify):	Nitrile, Viton, Chemical resistant gloves	Eye(specify	:	safety glasses	s					
Respiratory(specify):	Organic vapour mask	Clothing:								
Respiratory Protection:	If used indoors or on a continuous basis, use of NIOSH approved respirator is recommended									
Engineering Control:	If used indoors or on a continuous basis, maintain exposure limit by using adequate ventilation.									
Leak and Spill Procedure:	Use non-reactive absorbent material and non sparking tools to contain spills.									
	Incase of large spill use explosion proof and grounded equipments. Prevent from entering waterways.									
Waste Disposal:	Dispose of at an approved waste disposal facility. Or as per municipal or provincial regulation.									
DSL Listing	All ingredients in the product are listed in the inventory.									
Storage Requirements:	Keep in a cool, well ventilated place. Keep away from heat, spark and flame.									
Handling procedure & Equip.	Use spark resistant tools and equipment for transfers. Keep away from children. Do not inhale or ingest.									
TDG Classification	991/992/993 : Consumer Commodity, 994/995/996/998 as follows:									
	Flammable liquids, N.O.S. (2-propanol solution), Class 3, UN 1993, Pkg.Gr.II									
WHMIS Classification:	991/992/993/994 - Consumer Commodity, complies with CCCR 2001. #995/998 - Class B2, D2B & D2A									
SECTION VIII-FIRST AID ME	ASURES									
Eye:	Flush with water for at least 15 minutes. Seek mediacl attention immediately.									
Skin:	Wash with soap and water. See doctor if irritation persist.									
Inhalation:	Move patient to fresh air and restore breathing if required. Call a physician if discomfort persist.									
Ingestion:	DO NOT INDUCE VOMITING. Seek medical help immediately.									
SECTION IX-PREPARATION	DATE OF M.S.D.S.									
Additional Info/Comments:		Source used	: Supplier's data	ı						
Phone Number:	(905) 793-4311	Prepared B	Prepared By: Quality Control Laboratory							
Date Prepared:	Janaury 2, 2015. Kleen-Flo Tumbler Industries Limited									
THIS SHEET SUPERSEDES ANY OTHER M.S.D.S. PREVIOUSLY PREPARED										
N/Av.: not available	N/Ap.: not applical	ole		N/E: not estab	olished					