

KLEEN-FLO TUMBLER INDUSTRIES LIMITED		MATERIAL SAFETY DATA SHEET		PAGE 1
SECTION I-MATERIAL IDENTIFICATION AND USE				
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 #:	(905) 793-4311	
Chemical Name:	N.Ap. (mixture)	Chemical Family:	Blend of aliphatic alcohol & aromatic hydrocarbons.	
Chemical Formula:	N/Av.(mixture)	Trade Names & Synonyms:	Diesel Fuel Conditioner	
Material Use:	diesel fuel additive	Molecular Weight:	N/Av. (Mixture)	
SECTION II-HAZARDOUS INGREDIENTS OF MATERIAL				
Hazardous Ingredients	C.A.S.	Approximate Concentration	LD50 Species & Route	LC50 Species & Route
2-propanol	67-63-0	60-90%	5045 mg/kg rat-oral	16000 ppm (4hr) rat-inh.
Dimethylbenzene	1330-20-7	10-30%	4300 mg/kg rabbit-dermal	5000 ppm (4hr) rat-inh.
Ethyl benzene	100-41-4	1-5%	3500mg/kg rat-oral	4000 ppm(4hr) rat-inhal
SECTION III-PHYSICAL DATA FOR MATERIAL				
Physical State:	Liquid	Odour/Appearance:	Colourless, water white liquid, alcohol odour	
Specific Gravity:	0.8 @ 15°C	Odour Threshold(p.p.m.):	N/E	
Boiling Point:	82-137°C	Evaporation Rate:	N/E	
Freezing Point:	N/Av.	Solubility in Water:	87%	
% Volatile(by volume):	100%	Vapour Pressure(mm)Hg:	4.4 kPa at 20°C	
Vapour Density(Air=1):	2.2	Coefficient of Water/Oil Distribut:	N/E	
pH	N.Ap.			
SECTION IV-FIRE AND EXPLOSION HAZARD OF MATERIAL				
Flammability Yes/No	Yes	If yes under which conditions?	Can be ignited under normal temp. conditions.	
Auto Ignition Temperature	N/E	Means of Extinction:	Alcohol Foam, carbon dioxide	
Flashpoint and Method:	11°C	Hazardous Combustion Products:	Carbon monoxide,	
	Tag closed cup		carbon dioxide, hydrocarbon fumes & smoke	
Upper Flammable limit (%vol)	12	Lower Flammable Limit(% by volume):	2	
Explosion Data:	Sensitivity to Mech. Impact: Use only	Sensitivity to Static Discharge:	Use grounded equipment	
non-sparking tool				
SECTION V-REACTIVITY DATA				
Chemical Stability Yes/No:	Yes	If NO under which conditions?	N.Ap.	
Incompatibility to Other Substances Yes/No:	Yes	If so which ones?	Avoid contact with strong oxidizing materials, it may react with aluminum at high temp.	
Reactivity and under what conditions?	Normally stable but can become unstable at elevated temp. and pressure.			
Hazardous Decomposition Products:	Carbon monoxide, carbon dioxide produced on combustion.			
N/E: not established				
N.Ap.: not applicable		N/Av.: not available		

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SECTION VI-TOXICOLOGICAL PROPERTIES OF PRODUCT				
Route of Entry:	--SKIN CONTACT -x-SKIN ABSORPTION -x-EYE CONTACT -x-INHALATION -x-INGESTION			
Effects of Acute Exposure:	May cause slight eye irritation, headaches, nausea, dizziness, 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 Product:	N/E	
Irritancy of Product:	skin and eye irritant	Exposure limits of products: 2-propanol- 400 ppm,		
Sensitization of Product:	N/Av.	Ethyl benzene- 100 ppm, Dimethylbenzene- 100 ppm		
		Toxicologically Synergistic Materials:	N/Av.	
--CARCINOGENICITY --REPRODUCTIVE EFFECTS --TERATOGENICITY --MUTAGENICITY				None known
SECTION VII-PREVENTIVE MEASURES				
Personal Protective Equipment to be used:				
Gloves(specify):	Nitrile, viton & polyethylene	Eye(specify):	Chemical safety glasses	
Respiratory(specify):	Organic canister mask	Clothing:	Plastic apron Footwear: Oil resistant soles.	
Respiratory Protection:	If used indoors or on a continuous basis, use of cartridge type respirator is recommended			
Engineering Control:	If used indoors or on a continuous basis, maintain of TLV using adequate ventilation.			
Handling procedure & Equip.	Use spark resistant tools and equipment for transfers.			
Leak and Spill Procedure:	Dyke and contain land spill. Soak residue with natural absorbent.			
Waste Disposal:	Dispose at an approved waste disposal facility.			
DSL Listing	All ingredients in the product are listed in the inventory.			
Storage Requirements:	Keep in a cool place. Keep away from heat, spark and flame.			
TDG Classification	991/992/993 : Consumer Commodity, 994/995/996/998 as follows:			
	Flammable liquids, N.O.S.* (2-propanol/Xylene), Class 3, UN 1993, Pkg.Gr.II			
WHMIS Classification:	991/992/993 - Consumer Commodity, complies with CCCR 2001. #994/995/998 - Class B2, D2B & D2A			
SECTION VIII-FIRST AID MEASURES				
Eye:	Flush with water for at least 15 minutes.			
Skin:	Wash with soap and water			
Inhalation:	Remove to fresh air and restore breathing if required.			
Ingestion:	DO NOT INDUCE VOMITING. Guard against aspiration into lungs. Consult doctor immediately.			
SECTION IX-PREPARATION DATE OF M.S.D.S.				
Additional Info/Comments:		Source used: Supplier's data		
Phone Number:	(905) 793-4311	Prepared By: Quality Control Laboratory		
Date Prepared:	January 16, 2009	Kleen-Flo Tumbler Industries Limited		
THIS SHEET SUPERSEDES ANY OTHER M.S.D.S. PREVIOUSLY PREPARED				
N/Av.: not available		N/Av.: not applicable		N/E: not established