

KLEEN-FLO TUMBLER INDUSTRIES LIMITED		MATERIAL SAFETY DATA SHEET		PAGE 1
<u>SECTION I-MATERIAL IDENTIFICATION AND USE</u>				
Material Name/Identifier:	Supreme Fuel Injector G.L.A.F. & Conditioner	Stock No.	409/412/414/415/418	
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/A (mixture)	Chemical Family:	Blend of aliphatic alcohol	
Chemical Formula:	N/A	Trade Names & Synonyms:	& aromatic hydrocarbons	
Material Use:	Solvent/Cleaner	Molecular Weight:	N/A	
<u>SECTION II-HAZARDOUS INGREDIENTS OF MATERIAL</u>				
Hazardous Ingredients	C.A.S.	Approximate Concentration	LD50 Species & Route	LC50 Species & Route
2-propanol	67-63-0	60-90%	4.72 g/kg rat-oral	>12000 ppm (8hr) rat-inh.
xylene	1330-20-7	10-30%	4300 mg/kg rabbit-derma	> 6700 ppm (4hr) rat-inh.
ethyl benzene	100-41-4	1-5%	3.5 g/kg rat-oral	N/A
<u>SECTION III-PHYSICAL DATA FOR MATERIAL</u>				
Physical State:	Liquid	Odour/Appearance:	Alcohol odour; clear, red liquid	
Specific Gravity:	0.8 @15°C	Odour Threshold(p.p.m.):	N/A	
Boiling Point:	82-137°C	Evaporation Rate:	N/A	
Freezing Point:	N/A	Solubility in Water:	40%	
% Volatile(by volume):	100%	Vapour Pressure(mm)Hg:	4.4 kPa @ 20°C	
Vapour Density(Air=1):	2.2	Coefficient of Water/Oil Distribut:	N/E	
pH	N.Ap.			
<u>SECTION IV-FIRE AND EXPLOSION HAZARD OF MATERIAL</u>				
Flammability Yes/No	Yes	If yes under which conditions: heat, open flame and sparks		
Auto Ignition Temperature:	N/A	Means of Extinction: carbon dioxide, alcohol foam		
Flashpoint and Method:	11°C TCC	Carbon dioxide or dry chemical for small fires.		
		Hazardous Combustion Products:carbon monoxide and carbon dioxide		
Upper Flammable limit		Lower Flammable Limit(% by volume): 2%		
(% by volume):	12%			
Explosion Data:	Sensitivity ot mechanical impact: Yes	Sensitivity to Static Discharge: Electrical & mechanical		
		equipment should be explosion proof.		
<u>SECTION V-REACTIVITY DATA</u>				
Chemical Stability Yes/No:	Yes	If NO under which conditions? N.Ap.		
Incompatibility to Other Substances Yes/No:	Yes	If so which ones? strong oxidizing compounds. May react		
		with aluminum at high temperature.		
Reactivity and under what conditions?	Normally stable, but can become unstable at elevated temperatures & pressure			
Hazardous Decomposition Products:	Carbon monoxide, carbon dioxide produced upon combustion.			
N/E: not established				
		N.Ap.: not applicable		N/A: not available

Material Name/Identifier: Supreme Fuel Injector G.L.A.F. & Conditioner		Stock No. 409/412/414/415/418	PAGE 2
SECTION VI-TOXICOLOGICAL PROPERTIES OF PRODUCT			
Route of Entry: ALL Routes	--SKIN CONTACT --SKIN ABSORPTION --EYE CONTACT --INHALATION --INGESTION		
Effects of Acute Exposure:	Slight eye irritation. May cause headache, dizziness, nausea, drowsiness and central nervous system depression.		
Effects of Chronic Exposure:	High exposure to dimethylbenzene in some animal studies have been reported to cause health effects on developing embryo/fetus. Their effects were often at levels toxic to the mother. The significance of these findings to humans has not been determined.		
LD 50 of Product:	5840 mg/kg rat-oral	LC 50 of Product:	> 12000 ppm (8hr) rat
Irritancy of Product:	Skin and eye irritant	Exposure Limits of Product:	400 ppm- I.P.A.
Sensitization of Product:	N/A	2-propanol- 100 ppm, xylene- 100 ppm	
		Toxicologically Synergistic Materials:	N/A
--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:	Not required
Respiratory Protection:	If used indoors or on a continuous basis, use of cartridge type respirator is recommended		
Engineering Controls:	To maintain TLV; electrical and mechanical equipment should b spark proof.		
Leak and Spill Procedure:	Dry and contain spill. Soak residue with natural absorbent.		
Waste Disposal:	Incinerate or dispose of at an approved waste disposal facility.		
Storage Requirements:	Keep in a cool place.		
Handling Procedures and Equipment:	Handle with care. Keep away from children. Do not inhale or ingest.		
TDG Classification:	#409 & 412: Consumer commodity		
	#414 & 415 & 418: Flammable liquids, N.O.S.(2-propanol solution), Class 3, UN1993,Pkg. Grp. II		
WHMIS Classification:	Consumer Commodity #409/412; Class B2, D2B & D2A for #414, 415 &418		
Domestic substance list:	All components of this product are either on the DSL or exempt.		
SECTION VIII-FIRST AID MEASURES			
Eye:	Wash with water for at least 15 minutes.		
Skin:	Wash with soap and water.		
Inhalation:	Move patient to fresh air and restore breathing if required. Call a physician.		
Ingestion:	Contains petroleum distillate. Do NOT induce vomiting. Guard against aspiration. Seek medical help.		
SECTION IX-PREPARATION DATE OF M.S.D.S.			
Additional Info/Comments:		Sources Used: NOISH Registry of Toxic Effects of Chemical Sub	
Phone Number:	(905) 793-4311	Prepared By: Quality Control Laboratory	
Date:	March 3, 2003	Kleen-Flo Tumbler Industries Limited	
THIS SHEET SUPERSEDES ANY OTHER M.S.D.S. PREVIOUSLY PREPARED			
N/A: not available		N/E: not established	