

Material Name/Identifier:	Supreme Fuel Injector Gas Line Anti-Freeze		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 #:	CANUTEC:- 613-996-6666 (24HR)	
Chemical Name:	N/A (mixture)	Chemical Family:		Blend of aliphatic alcohol
Chemical Formula:	N/Av.			& aromatic hydrocarbons
Material Use:	Solvent/Cleaner	Molecular Weight:		N/Av.

Hazardous Ingredients	C.A.S.	Approximate Concentration	LD50 Species & Route	LC50 Species & Route
2-propanol	67-63-0	60-100%	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

<b>Physical State:</b>	<b>Liquid</b>	<b>Odour/Appearance:</b>	<b>Alcohol odour; clear, red liquid</b>
<b>Specific Gravity:</b>	<b>0.8 @15°C</b>	<b>Odour Threshold(p.p.m.):</b>	<b>N/Av.</b>
<b>Boiling Point:</b>	<b>82-137°C</b>	<b>Evaporation Rate:</b>	<b>N/Av.</b>
<b>Freezing Point:</b>	<b>N/Av.</b>	<b>Solubility in Water:</b>	<b>Partly soluble</b>
<b>% Volatile(by volume):</b>	<b>100%</b>	<b>Vapour Pressure(mm)Hg:</b>	<b>33.0 mmHg @ 20°C</b>
<b>Vapour Density(Air=1):</b>	<b>&gt;1</b>	<b>Coefficient of Water/Oil Distribut:</b>	<b>N/E</b>
<b>pH</b>	<b>N.Ap.</b>		

<b>Flammability</b> Yes/No	Yes	<b>If yes under which conditions:</b> Heat, Open flame, Spark
<b>Auto Ignition Temperature:</b>	N/Av.	<b>Means of Extinguishing:</b> Dry chemical, Carbon dioxide,
		Alcohol - resistant foam.
<b>Flashpoint and Method:</b>	11 °C TCC	<b>Hazardous Combustion Products:</b> carbon monoxide and carbon dioxide
<b>Upper Flammable limit(%v/v)</b>	12	<b>Lower Flammable Limit(% by volume):</b> 1
<b>Explosion Data:</b>	<b>Sensitivity of mechanical impact:</b> Yes	<b>Sensitivity to Static Discharge:</b> Electrical & mechanical
		equipment should be explosion proof and grounded.

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, Acetaldehyde, Acids,
		Chlorine. May react with aluminum equipment at temperature above 120°F
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/Av.: not available**

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<b>SECTION VI-TOXICOLOGICAL PROPERTIES OF PRODUCT</b>				
Route of Entry: All Routes		--SKIN CONTACT --SKIN ABSORPTION --EYE CONTACT --INHALATION --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 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:	N/Av.	LC 50 of Product:	N/Av.	
Irritancy of Product:	Skin and eye irritant	Exposure Limits of Product: IPA 400 ppm STEL (ACGIH)		
Sensitization of Product:	N/Av.	Xylene 150 ppm STEL, Ethyl benzene 100 ppm STEL		
		Toxicologically Synergistic Materials: N/Av.		
--CARCINOGENICITY --REPRODUCTIVE EFFECTS --TERATOGENICITY --MUTAGENICITY				Not known
Ethyl benzene is listed as possible carcinogenic by IARC.				
<b>SECTION VII-PREVENTIVE MEASURES</b>				
Personal Protective Equipment to be used:				
Gloves(specify):	Nitrile, Viton, Chemical resistant gloves	Eye(specify):	safety glasses	
Respiratory(specify):	Organic vapour mask	Clothing:	Not required	
Respiratory Protection:	If used indoors or on a continuous basis, use of NIOSH approved respirator is recommended			
Engineering Controls:	Required adequate ventilation to maintain TLV limit, electrical and mechanical equipment should be sparkproof.			
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.			
Waste Disposal:	Dispose of at an approved waste disposal facility. Or as per municipal or provincial regulation.			
Storage Requirements:	Keep in a cool well ventilated place. Keep away from heat, spark or flame			
Handling Procedures and	Handle with care. Keep away from children. Do not inhale or ingest.			
Equipment:				
DSL listing	All components of this product are either on the DSL or exempt.			
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			
<b>SECTION VIII-FIRST AID MEASURES</b>				
Eye:	Flush with water for at least 15 minutes. Seek medical 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.			
<b>SECTION IX-PREPARATION DATE OF M.S.D.S.</b>				
Additional Info/Comments:		Sources Used: Supplier's data		
Phone Number:	(905) 793-4311	Prepared By: Quality Control Laboratory		
Date Prepared:	January 2, 2012.	Kleen-Flo Tumbler Industries Limited		
THIS SHEET SUPERSEDES ANY OTHER M.S.D.S. PREVIOUSLY PREPARED				
N/Av.: not available		N.Ap.: Applicable		N/E: not established