

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 #:	CANUTEC:- 613-996-6666 (24HR)
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		Approximate	LD50		LC50
Ingredients	C.A.S.	Concentration	Species & Route	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	

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:	Partly soluble
% Volatile(by volume):	100%	Vapour Pressure(mm)Hg:	33.0 mmHg @ 20°C
Vapour Density(Air=1):	>1	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? Heat, Open flame, spark
Auto Ignition Temperature	N/E	Means of Extinguishing: Dry chemical, Carbon dioxide, Alcohol - resistant foam.
Flashpoint and Method:	11°C TCC	Hazardous Combustion Products: Carbon monoxide, carbon dioxide, hydrocarbon fumes & smoke
Upper Flammable limit (%vol)	12	Lower Flammable Limit(% by volume) 1
Explosion Data:	Sensitivity to Mech. Impact: Yes	Sensitivity to Static Discharge: Electrical & mechanical equipment should be explosion proof and grounded.

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? 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 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

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:	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 Product:	N/E
Irritancy of Product:	skin and eye irritant	Exposure Limits : 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			None known

Ethyl benzene is listed as possible carcinogenic by IARC.

SECTION VII-PREVENTIVE MEASURES

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 in normal use
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 - 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. 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.

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, 2012	Kleen-Flo Tumbler Industries Limited

THIS SHEET SUPERSEDES ANY OTHER M.S.D.S. PREVIOUSLY PREPARED

N/Av.: not available

N/Ap.: not applicable

N/E: not established