KLEEN-FLO TUMBLER INDU	MATERIAL SAFETY DATA SHEET			PAG			
SECTION I-MATERIAL IDENT	FIFICATION AND I	<u>USE</u>					
Material Name/Identifier:	Low Sulphur Dies	sel Fuel Conditioner	Stock No.		963/964/965/966		
Manufacturer's Name:	Kleen-Flo Tumbler Industries Ltd		Street Address:		75 Advance Blvd.		
City:	Brampton		Province:		Ontario		
Postal Code:	L6T 4N1		Emergency I	Emergency Phone #: CANUTEC:- 6		613-996-6666 (24HR)	
Chemical Name:	mixture (N.Ap.)		Chemical Family:		mixture (N.Ap.)		
Chemical Formula:	mixture (N.Ap.)		Trade Names & Synonyms:		:	none	
Material Use:	Diesel fuel additive		Molecular Weight:		mixture		
Hazardous		Approximate	LDS	LD50		LC50	
Ingredients	C.A.S.	Concentration	Species &	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	4300 mg/kg rabbit-dermal		5000 ppm (4hr) rat-inh.	
Ethyl benzene	100-41-4	1-5%	3500mg/kg rat-oral		4000 ppm(4h	r) rat-inhal	
SECTION III-PHYSICAL DATA	A FOR MATERIAL						
DI2-1 64-4	P1	01/		A11.1.1.1.			
Physical State: Specific Gravity:	liquid 0.8	Odour/Appearance: Odor Threshold(p.p.m.):		Alcohol odor/ transparent, yellow N/Av.			
Boiling Point:	82-137°C	Evaporation Rate:		N/E			
Freezing Point:	N/E	Solubility in Water:			Partly soluble		
% Volatile(by volume):	N/E	Vapor Pressure(mm)Hg:		33.0 mmHg @ 20°C			
Vapor Density(Air=1):	>1	Coefficient of Water/Oil Distribut:		N/E			
oH:	N.Ap.	Coefficient of Water/On Distribut.					
SECTION IV-FIRE AND EXPL	OSION HAZARD O	F MATERIAL					
Flammability Yes/No	Yes		If yes under which conditions? Heat, Open flame, spark				
Auto Ignition Temperature:	ıre: N/Av.		Means of Extinguishing: Dry chemical, Carbon dioxide,				
			Alcohol - resistant foam.				
Clashpoint and Method:	16°C TCC		Hazardous C	Hazardous Combustion Products: Hydrocarbon fumes, smoke,			
			Carbon dioxide, Carbon monoxide				
Jpper Flammable limit (%vol)	12%	Lower Flammable Limit (% by volume):					
Explosion Data:	Sensitivity to Mechanical Impact: Yes		Sensitivity to	Sensitivity to Static Discharge: Electrical & mechanical			
		1	ould be explos				

Yes

Yes

N.Ap.:not applicable

If NO under which conditions?:

Carbon monoxide and carbon dioxide are produced on combustion.

N.Ap.

N/Av.: not available

If so which ones? strong oxidizing compounds, Acetaldehyde, Acids,

Chlorine. May react with aluminum equipment at temperature above 120°F

Chemical Stability Yes/No:

N/E: not established

Incompatibility to Other Substances Yes/No:

Reactivity and under what conditions?

Hazardous Decomposition Products:

Material Name/Identifier:	Low Sulphur Diesel Fuel Conditioner	Stock No.	963/964/965/9	966	PAGE 2					
SECTION VI-TOXICOLOGIC	CAL PROPERTIES OF PRODUCT									
Route of Entry: ALL Routes	SKIN CONTACTSKIN ABSORPTIONEYE CONTACTINHALATIONINGESTION									
Effects of Acute Exposure:	Moderate skin and eye irritant. Can cause conjunctivitis (eyes). Prolonged and repeated contact									
	with skin can cause defatting and drying of the skin resulting in possible skin dermatitis.									
	High concentration inhalation may cause 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.									
Irritancy of Product:	skin & eye irritation Exposure Limits: IPA 400 ppm STEL (ACGIH)									
		Xylene 150 ppm STEL, Ethyl benzene 100 ppm STEL								
Sensitization of Product:	N/E	N/Av.								
CARCINOGENICITYREI	PRODUCTIVE EFFECTSTERATOGENICI	N/E Toxicologically Synergistic Materials: RODUCTIVE EFFECTSTERATOGENICITYMUTAGENICITY None known								
Ethyl benzene is listed as possib	ole 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):	NOISH approved Organic vapour mask	Clothing:	Not required	Not required in normal use						
Respiratory Protection:	If used indoors or on a continuous basis, use of NIOSH approved respirator is recommended									
Engineering Controls:	If used indoors or on a continuous basis, maintain exposure limit by using adequate ventilation.									
	Use explosive proof pumping system for training	Use explosive proof pumping system for transfers.								
Leak and Spill Procedure:	Use non-reactive absorbent material and no	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 according to federal, state (Provincial) and local regulations									
Storage Requirements:	Store at cool, well ventilated area. Keep away from heat, open flame and ignition sources.									
Handling Procedures and	Wear protective gloves. Use spark resistant tools and transfer equipment.									
Equipment:	Keep away from children. Do not inhale or ingest.									
DSL listing	All components in this material are listed on the inventory.									
WHMIS classification:	#963 - Consumer Commodity, #964,#965 & 966 - B2, D2A & D2B. Complies with CCCR200									
TDG Classification:	#963- Consumer Commodity, #964,965 & 9	066 - Flammable liquids, n.o.	s. (2-propanol s	solution),						
	UN 1993, Class 3, Packing Group II.									
SECTION VIII-FIRST AID M	<u>EASURES</u>									
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	N DATE OF M.S.D.S.									
Additional Info/Comments:		Sources Used: Supplier's	data							
Phone Number:	(905) 793-4311	Prepared By: Quality Con		ry						
Date Prepared:	Janaury 2, 2015.		Tumbler Indu							
	S SHEET SUPERSEDES ANY OTHER M.S.D.	S. PREVIOUSLY PREPAR	ED							
N/E: not established	N.Ap.:not applicable			N/Av.: not available						