

SECTION I-MATERIAL IDENTIFICATION AND USE

Material Name/Identifier:	Low Sulphur Diesel Antigel with Conditioner	Stock No.	974/975/976
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:	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 (N.Ap.)

SECTION II-HAZARDOUS INGREDIENTS OF MATERIAL

Hazardous Ingredients	C.A.S.	Approx. %wt. Concentration	LD50 Species & Route	LC50 Species & Route
2-Propanol	67-63-0	10-15	4.72 gr/kg rat-oral	12000 ppm(8hr) rat-inh.
Naphthalene	91-20-3	1-5	N/A	N/A
Petroleum Distillate	68477-31-6	10-30	N/A	N/A
Dimethylbenzene	1330-20-7	50-70	>4300 mg/kg rat-oral	>6350 ppm (4hr) rat-inh.

SECTION III-PHYSICAL DATA FOR MATERIAL

Physical State:	liquid	Odour/Appearance:	Light pungent odour/yellow liquid
Specific Gravity:	0.86	Odour Threshold(p.p.m.):	N/E
Boiling Point:	82 °C	Evaporation Rate:	N/E
Freezing Point:	-26 °C	Solubility in Water:	approx. 20%
% Volatile(by volume):	N/E	Vapour Pressure(mm)Hg:	N/E
Vapour Density(Air=1):	N/E	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?:	Ignitable at room temp.
Auto Ignition Temperature:	N/E	Means of Extinction:	Dry chemical/carbon dioxide
Flashpoint and Method:	16°C	Hazardous Combustion Products:	Toxic gases and hydrocarbon fumes and smoke.
Upper Flammable limit (% by volume):	6.8%	Lower Flammable Limit (% by volume):	1.1%
Explosion Data:	Sensitivity to Mechanical impact: No.	Sensitivity to Static Discharge:	Yes

SECTION V-REACTIVITY DATA

Chemical Stability Yes/No:	Yes	If NO under r which conditions?	N.Ap.
Incompatibility to Other Substances Yes/No:	Yes	If so which ones?	strong oxidizing agents & acids
Reactivity and under what conditions?	Avoid excessive heat, open flames and all ignition sources.		
Hazardous Decomposition Products:	Carbon monoxide and carbon dioxide are produced on combustion.		

N/E: not established

N.Ap.:not applicable

N/A: not available

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SECTION VI-TOXICOLOGICAL PROPERTIES OF PRODUCT

Route of Entry: ALL Routes	--SKIN CONTACT --SKIN ABSORPTION --EYE CONTACT --INHALATION --INGESTION
Effects of Acute Exposure:	Product irritating to skin and eyes. Can cause conjunctivitis (eyes). Prolonged and repeated contact with skin can cause defatting and drying of skin resulting in skin dermatitis. May be irritating to

	respiratory passages. Prolonged exposure to high vapor conc. can cause headache, dizziness, nausea, and central nervous system depression.		
Effect of Chronic exposure:	Repeated overexposure to naphthalene may cause destruction of red blood cells with anemia, fever, jaundice and kidney and liver damage.		
Sensitization of Product:	May cause allergic skin reaction	Toxicologically Synergistic Materials:	none known
--CARCINOGENICITY --REPRODUCTIVE EFFECTS --TERATOGENICITY --MUTAGENICITY			N/E
SECTION VII-PREVENTIVE MEASURES			
Personal Protective Equipment to be used:			
Gloves(specify):	Viton, nitrile	Eye (specify):	chemical goggles
Respiratory(specify):	NOISH organic vapor	Clothing:	Long sleeve shirt is recommended
Respiratory Protection:	If used indoors or on a continuous basis, use of cartridge type respirator is recommended.		
Engineering Controls:	Use local exhaust ventilation to control mists or vapors. Additional ventilation or exhaust may be required to maintain air concentration below recommended exposure limits.		
Leak and Spill Procedure:	For small spills, soak with natural absorbent. Dispose of by incineration. For large spills, ventilate spill area. Eliminate all ignition sources. Dike and contain spills.		
Waste Disposal:	Collect spills in steel drums for recycle and/or disposal. Do not dispose of through sewers and waterways.		
Storage Requirements:	Flammable. Store in a cool, dry well ventilated area, away from heat and ignition sources.		
Handling Procedures and Equipment:	Open large containers/drum in a well ventilated area. Avoid excessive breathing of vapors. Keep containers closed when not in use. Wash thoroughly after handling.		
DSL Listing	All components in this material are listed.		
TDG Classification:	Flammable liquids, n.o.s.* (2-propanol solution), Class 3, UN 1993, Pkg.II		
WHMIS Classification:	D1A, D2B, B2		
SECTION VIII-FIRST AID MEASURES			
Eye:	Flush with water for at least 15 minutes. Get medical attention if eye irritation persists.		
Skin:	Wash with soap and water.		
Inhalation	Remove exposed person to fresh air if adverse effects observed. If breathing labored, give oxygen. Seek medical attention.		
Ingestion:	Do not induce vomiting. If conscious, give 2 glasses of water. Seek medical attention.		
SECTION IX-PREPARATION DATE OF M.S.D.S.			
Additional Info/Comments:		Sources Used: Handbook of Poisoning By: R.H. Dreisbach	
Phone Number:	(905) 793-4311	Prepared By: Quality Control Laboratory	
Date:	January 18, 2006.	Kleen-Flo Tumbler Industries Limited	
THIS SHEET SUPERSEDES ANY OTHER M.S.D.S. PREVIOUSLY PREPARED			
N/A: not available		N/E: not established	