KLEEN-FLO TUMBLER	INDUSTRIES LIM	HTED	MATERIAL	SAFETY DA	ATA SHEET	PAC		
SECTION I-MATERIAL ID	ENTIFICATION A	ND USE						
Material Name/Identifier:	Kleen-Start Starting Fluid		Stock No.			730		
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:			N/A (Mixture)		
Chemical Formula:	N/A (Mixture)		Trade Names & Synonyms:			Kleen-Start		
Material Use:	Engine Starting Fluid		Molecular Weight:			N/A (Mixture)		
SECTION II-HAZARDOUS	INGREDIENTS O	F MATERIAL						
Hazardous		Approximate	LD50		LC50			
Ingredients	C.A.S.	% Concentration	Species & Route		Species & Route			
Diethyl ether	60-29-7	40-70	N/A	<u> </u>	N/A			
Heptane	142-82-5	40-70	N/A		N/A			
Carbon dioxide	124-38-9	5-10	N/A	N/A N/A				
Upper Cylinder Lubricant	64741-89-5	1-5	N/E N/E		N/E			
SECTION III-PHYSICAL D	ATA FOR MATER	IAL						
Physical State:	Liquid	Odour/Appearance:	our/Appearance: ether-like odour/ colorless liquid					
Specific Gravity:	0.713	Odour Threshold(p.p.	n.): N/A					
Boiling Point:	35.5°C	Evaporation Rate:	37.5 (Butyl-acetate=1)					
Freezing Point:	N/E	Solubility in Water: 6.5%		6.5%				
% Volatile(by volume):	100	Vapour Pressure(mm)Hg: 537		537				
Vapour Density(Air=1):	2.55	Coefficient of Water/O	Oil Distribut: N/A					
pН	N/A							
SECTION IV-FIRE AND EXF Flammability Yes/No: Auto Ignition Temperature:	Yes, extremely N/A	If yes under which conditions?: Excessive heat, open flame or sparks  Means of Extinction: carbon dioxide, dry chemical, foam						
Flashpoint and Method:	-49°C	Hazardous Combusti			roducts:	N/A		
	Tag C.C.							
Upper Flammable limit	48		Lower Flammable Limit(% by volume): 1			: 1.85		
(% by volume):								
Explosion Data:	Sensitivity to Me	Sensitivity to Mechanical Impact: N.Ap			Sensitivity to Static Discharge: N.Ap			
SECTION V-REACTIVITY	<u>DATA</u>							
Chemical Stability Yes/No: No			If NO under which conditions? above 35.5°C					
Incompatibility to Other Substances Yes/No:		Yes	If so which ones? Inorganic acid conc., Peroxides. Caustics					
Reactivity and under what conditions?		N/A						
Hazardous Decomposition Pr		Carbon monoxide & carbon dioxides.						
N/E: not established		N.Ap.: not	applicable			N/A: not available		

Material Name/Identifier:	Kleen-Start Starting Fluid	Stock No.	730	PAGE 2					
SECTION VI-TOXICOLOGI	CAL PROPERTIES OF PRODUCT								
Route of Entry: ALL Routes	SKIN CONTACTSKIN ABSORPTIONEYE CONTACTINHALATIONINGESTION								
Effects of Acute Exposure:	May cause defatting and drying of skin. May irritate mucous membranes of respiratory tract.								
•	Overexposure may cause central nervous sy								
Effects of Chronic Exposure: Continuous inhalation of spray may cause death (50 ml.)									
LD 50 of Product:	N/A	LC 50 of Product: N/A							
Irritancy of Product:	Skin & Eye Irritant	Exposure Limits of Product: N/A							
Sensitization of Product:	N/A	Toxicologically Synergistic Materials:		N/A					
CARCINOGENICITYRI	PRODUCTIVE EFFECTSTERATOGENICITYMUTAGENICITY None Known								
SECTION VII-PREVENTIV									
Personal Protective Equipmen		Eye(specify):	Goggles						
Gloves(specify):	Rubber	,							
Respiratory(specify):		NOISH organic vapor mask Clothing: Not required							
Respiratory Protection:	If used indoors or on a continuous basis, us	se of cartridge type respirat	or is recomme	ended					
Engineering Controls:	Local ventilation to keep exposure limit below 400 ppm (diethyl ether).								
Leak and Spill Procedure:	Absorb with paper towel which should then be taken away to a safe place for evaporation.								
Waste Disposal:	Defective cans with residual liquid should be disposed of in an approved hazardous waste site.								
1	Empty cans can disposed of at local recycling depots.								
Storage Requirements:	Storage at room temperature. Do not expose under direct sunlight for prolonged period.								
Handling Procedure &	Keep away from open flame and spark. Do not store above 30°C for a long period of time.								
Equipment:	Keep away from open flame and spark.								
IATA (air transport)	Aerosol, flammable, n.o.s., (engine starting fluid), UN 1950. Class2.1								
Marine (IMDG)	Aerosol, UN1950, Class 2, Marine Pollutant (Class 2.1 red label is required)								
TDG Classification:	Consumer Commodity								
WHMIS Classification:	Consumer Commodity - exempt from WHMIS labelling requirement.								
	If required: Class A,B5,D2B	uired: Class A,B5,D2B							
SECTION VIII-FIRST AID N	MEASURES								
Eye:	Flush with large amount of water for at least 15 minutes. If irritation persists, seek medical help.								
Skin:	Wash with soap and water.								
Inhalation:	Remove to open air. Maintain body warmth. Seek medical help.								
Ingestion:	Do not induce vomiting. Seek medical help.								
SECTION IX-PREPARATIO	ON DATE OF M.S.D.S.								
Additional Info/Comments:		Sources Used:	Handbook of F	Poisioning by R. Dreisbach					
Phone Number:	(905) 793-4311	Prepared By: Quality Co							
Date:	March 3rd 2003			lustries Limited					
2 4101	Indian ord 2000	Telecon-1 I	o rumoter the	Justines Emmod					
ТЕ	HIS SHEET SUPERSEDES ANY OTHER	M.S.D.S. PREVIOUSLY	PREPAREI	0					
N/A: not availabl			N/E: not esta						
			50						