KLEEN-FLO TUMBLER	INDUSTRIES LIN	<u>IITED</u>	MATERIAL	SAFETY D	ATA SHEET	r PAC	
SECTION I-MATERIAL ID	DENTIFICATION A	<u>ND US</u> E					
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	S INGREDIENTS O	F MATERIAL					
Hazardous		Approximate	LD50		LC50		
Ingredients	C.A.S.	% Concentration	Species &				
Diethyl ether	60-29-7	40-70	N/A		N/A		
Heptane	142-82-5	40-70	N/A		N/A		
Carbon dioxide	124-38-9	5-10	N/A				
Upper Cylinder Lubricant	64741-89-5	1-5	N/E		N/E		
11 7							
SECTION III-PHYSICAL D	OATA FOR MATER	RIAL					
Physical State:	Liquid	Odour/Appearance:	Odour/Appearance: ether-like odo			ss liquid	
Specific Gravity:	0.713	Odour Threshold(p.p.	m.): N/A			•	
Boiling Point:	35.5°C	Evaporation Rate:	· · · · · · · · · · · · · · · · · · ·	37.5 (Butyl-acetate=1)			
Freezing Point:	N/E	Solubility in Water:		6.5%			
% Volatile(by volume):	100	Vapour Pressure(mm)Hg:		537			
Vapour Density(Air=1):	2.55	Coefficient of Water/Oil Distrib		N/A			
рН	N/A						
SECTION IV-FIRE AND E.	XPLOSION HAZA	RD OF MATERIAL					
Flammability Yes/No:	Yes, extremely	Yes, extremely		hich conditions	at, open flame or sparks		
Auto Ignition Temperature:	N/A	N/A		xtinction: car	dry chemical, foam		
Flashpoint and Method:	-49°C	-49°C		Combustion I	N/A		
	Tag C.C.						
Upper Flammable limit	48		Lower Flammable Limit(% by volume): 1.85				
(% by volume):							
Explosion Data:	Sensitivity to Med	chanical Impact: N.Ap	Sensitivity to	Static Disch	narge:	N.Ap	
SECTION V-REACTIVITY	DATA						
Chemical Stability Yes/No:		No	If NO unde	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 co	onditions?	N/A					
Hazardous Decomposition P	roducts:	Carbon monoxide &	carbon dioxid	les.			
N/E: not established	<u> </u>	N.Ap.: not	applicable			N/A: not available	

Material Name/Identifier:	Kleen-Start Starting Fluid	Stock No.	730	PAGE 2				
SECTION VI-TOXICOLOG	ICAL 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 system depression. Headche or nausea.							
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 Produc	N/A					
Sensitization of Product:	N/A	Toxicologically Synergisti	ic Materials:	N/A				
CARCINOGENICITYR	EPRODUCTIVE EFFECTSTERATOGENICITYMUTAGENICITY None Known							
SECTION VII-PREVENTIV	E MEASURES							
Personal Protective Equipme	nt to be used:							
Gloves(specify):	Rubber	Eye(specify)	Goggles					
Respiratory(specify):	NOISH organic vapor mask							
Respiratory Protection:	If used indoors or on a continuous basis, use of cartridge type respirator is recommended							
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:	e Disposal: Defective cans with residual liquid should be disposed of in an approved hazardous waste site.							
	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:	IMIS Classification: Consumer Commodity - exempt from WHMIS labelling requirement.							
	If required: Class A,B5,D2B							
SECTION VIII-FIRST AID	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 h	elp.						
SECTION IX-PREPARATION	ON DATE OF M.S.D.S.							
Additional Info/Comments:		Sources Used:	Handbook of Poisioning by	y R. Dreisbach				
Phone Number:	(905) 793-4311	Prepared By: Quality Con	ntrol Laboratory					
Date:	March 3rd 2003		Tumbler Industries Li	imited				
	IC CHEETE CLIDED CEDES A N.Y. CONTES	Mada a previous v	DDED A DES					
N/A: not availabl	IS SHEET SUPERSEDES ANY OTHER		PREPARED N/E: not established					
TVA. Hot availabl	<u> </u>	1						