

KLEEN-FLO TUMBLER INDUSTRIES LIMITED		MATERIAL SAFETY DATA SHEET		PAGE 1
SECTION I-MATERIAL IDENTIFICATION AND USE				
Material Name/Identifier:	Kleen-Solv	Stock No.	116	
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.Ap.(mixture)	Chemical Family:	Mineral spirit	
Chemical Formula:	N.Ap. (mixture)	Trade Names & Synonyms:	N/E	
Material Use:	Solvent, cleaner	Molecular Weight:	N.Ap.(mixture)	
SECTION II-HAZARDOUS INGREDIENTS OF MATERIAL				
Hazardous Ingredients	C.A.S.	Approximate Concentration	LD50 Species & Route	LC50 Species & Route
Stoddard solvent	8052-41-3	100%	> 5 g/kg rat-oral	> 5 g/m3 rat-inh.
SECTION III-PHYSICAL DATA FOR MATERIAL				
Physical State:	Liquid	Odour/Appearance:	Colorless hydrocarbon odour	
Specific Gravity:	0.79 @ 15 deg. C	Odour Threshold(p.p.m.):	N/A	
Boiling Point:	158-195°C	Evaporation Rate, n Butyl Acetate=1	0.1	
Freezing Point:	- 58°C	Solubility in Water:	nil	
% Volatile(by volume):	100%	Vapour Pressure(mm)Hg:	2.0 @ 68°F	
Vapour Density(Air=1):	4.8	Coefficient of Water/Oil Distribut:	N/Av.	
pH	N/Av.			
SECTION IV-FIRE AND EXPLOSION HAZARD OF MATERIAL				
Flammability Yes/No	Yes, combustible liquid	If yes under which conditions?: upon ignition above 40°C		
Auto Ignition Temperature:	229°C	Means of Extinction: water spray, dry chemical,		
Flashpoint and Method:	42°C (Tag c.c)	carbon dioxide, foam.		
		Hazardous Combustion Products: Fumes,smoke& oxides of carbon.		
Upper Flammable limit (%vol)	13	Lower Flammable Limit	1%	
Explosion Data:	Sensitivity to Mechanical Impact: Yes	Sensitivity to Static Discharge: grounding when pumping		
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 agents and strong acids.		
Reactivity and under what conditions?	Avoid excessive heat, open flames and all ignition sources.			
Hazardous Decomposition Products:	carbon monoxide, carbon dioxide and black smokes			
N/E: not established				
N.Ap.: not applicable				
N/AV.: 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:	Slight eye and skin irritation.			
Effects of Chronic Exposure:	Prolonged exposure to high vapor concentration can cause headaches, dizziness, nausea & central nervous system depression. In rare cases, may sensitize heart muscles causing heart arrhythmia.			
	Prolonged and repeated contact with skin can cause defatting and drying of the skin resulting in skin irritation and dermatitis.			
LD50 of Product:	N/E	Exposure Limits of Product: stoddard solvent 100 ppm,		
Irritancy of Product:	Slight eye irritant	400 mg/m3 (TLV/TWA) AICGH		
		Material contains ethylbenzene: 100 ppm ACGIH		
Sensitization of Product:	N/A	Toxicologically Synergistic Materials:	N/A	
--CARCINOGENICITY --REPRODUCTIVE EFFECTS --TERATOGENICITY --MUTAGENICITY				None known
SECTION VII-PREVENTIVE MEASURES				
Personal Protective Equipment to be used:				
Gloves(specify):	chemical resistant	Eye(specify):	safety goggles	
Respiratory(specify):	organic vapour mask	Clothing:	not required	
Respiratory Protection:	If used indoors or on a continuous basis, use of cartridge type respirator is recommended			
Engineering Controls:	Local exhaust ventilation recommended			
Leak and Spill Procedure:	Use absorbents and dispose according to local governmental regulation.			
Waste Disposal:	Ensure disposal according to government and local regulations.			
Storage Requirements:	Keep containers closed. Store in a cool place away from heat, spark and strong oxidizers.			
Handling Procedures and Equipment:	Do not handle or store near an open flame, sources of heat or ignition.			
DSL listing	The material is listed.			
TDG Classification:	Exempted under Part 1, section 1.33 for combustible liquid.			
WHMIS Classification:	B3, D2B			
SECTION VIII-FIRST AID MEASURES				
Eye:	Rinse thoroughly with water for at least 15 minutes. Consult physician.			
Skin:	Remove contaminated clothing, wash with soap and water for 5-10 minutes.			
Inhalation:	Remove from contaminated area. Apply artificial respiration if breathing has stopped. Call a physician.			
Ingestion:	DO NOT INDUCE VOMITING. Seek medical attention immediately.			
SECTION IX-PREPARATION DATE OF M.S.D.S.				
Additional Info/Comments:		Sources Used: Supplier's data		
Phone Number:	(905) 793-4311	Prepared By: Quality Control Laboratory		
Date Prepared:	January 2, 2009.	Kleen-Flo Tumbler Industries Limited		
N/E: not established	N.Ap.: not applicable		N/AV.: not available	
THIS SHEET SUPERSEDES ANY OTHER M.S.D.S. PREVIOUSLY PREPARED				