

SECTION I-MATERIAL IDENTIFICATION AND USE

Material Name/Identifier:	Kleen-Solv	Stock No.	116/117
Manufacturer's Name:	Kleen-Flo Tumbler Industries Ltd	Street Address:	75 Advance Blvd.
City:	Brampton	Province:	Ontario
Postal Code:	L6T 4N1	Emergency Phone #:	CANUTEC:- 613-996-6666 (24HR)
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	60 - 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:	- 76°C	Solubility in Water:	Negligible
% Volatile(by volume):	100%	Vapour Pressure(mm)Hg:	2.14 @ 20 °C
Vapour Density(Air=1):	4.9	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:	260°C	Means of Extinction:	water spray, dry chemical, carbon dioxide, foam.
Flashpoint and Method:	43°C (Tag c.c)		
		Hazardous Combustion Products: Fumes,smoke& oxides of carbon.	
Upper Flammable limit (% vol)	5.6	Lower Flammable Limit	0.8
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 oxidizers
Reactivity and under what conditions?	Avoid excessive heat, open flames and all ignition sources.		
Hazardous Decomposition Products:	carbon monoxide, carbon dioxide and black smokes		

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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:	May cause eye and skin irritation, if aspirated may cause lungs damage.			
Effects of Chronic Exposure:	Prolonged exposure to high vapor concentration can cause headaches, dizziness, nausea & other central nervous system effects. Small amount of liquid aspirated in to lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema. Prolong and repeated contact with skin cause defatting and drying of the skin resulting in skin irritation and dermatitis.			
LD50 of Product:	> 5 g/kg rat-oral	Exposure Limits of Product: stoddard solvent TWA 100 ppm,		
Irritancy of Product:	Slight eye and skin irritant	400 mg/m3 (TWA) ACGIH		
		Material contains ethylbenzene: TWA 100 ppm ACGIH		
Sensitization of Product:	N/Av	Toxicologically Synergistic Materials:		N/Av
--CARCINOGENICITY --REPRODUCTIVE EFFECTS --TERATOGENICITY --MUTAGENICITY				None known
This product may contain constituents Ethylbenzene, Naphthalene in a complex substance. Ethylbenzene and Naphthalene are listed as possible human carcinogenic by IARC.				
SECTION VII-PREVENTIVE MEASURES				
Personal Protective Equipment to be used:				
Gloves(specify):	chemical resistant gloves	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 NIOSH approved respirator is recommended			
Engineering Controls:	Provide adequate ventilation			
Leak and Spill Procedure:	Use non combustible absorbents and dispose according to local governmental regulation.			
Waste Disposal:	Ensure disposal according to government and local regulations.			
Storage Requirements:	Keep container closed. Store in a cool well ventilated place. Keep away from heat, spark and ignition sources. Keep away from incompatible substances.			
Handling Procedures and Equipment:	Do not handle or store near an open flame, sources of heat or ignition. Use grounding equipment.			
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 immediately.			
Skin:	Remove contaminated clothing, wash with soap and water for 5-10 minutes, see doctor if irritation persist.			
Inhalation:	Remove person from further exposure. Apply artificial respiration if breathing has stopped. Call a physician. Move person to fresh air.			
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, 2015.	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				