

**SECTION I-MATERIAL IDENTIFICATION AND USE**

<b>Material Name/Identifier:</b>	<b>Kleen-Solv</b>	<b>Stock No.</b>	<b>116/117</b>
<b>Manufacturer's Name:</b>	<b>Kleen-Flo Tumbler Industries Ltd</b>	<b>Street Address:</b>	<b>75 Advance Blvd.</b>
<b>City:</b>	<b>Brampton</b>	<b>Province:</b>	<b>Ontario</b>
<b>Postal Code:</b>	<b>L6T 4N1</b>	<b>Emergency Phone #:</b>	<b>CANUTEC:- 613-996-6666 (24HR)</b>
<b>Chemical Name:</b>	<b>N.Ap.(mixture)</b>	<b>Chemical Family:</b>	<b>Mineral spirit</b>
<b>Chemical Formula:</b>	<b>N.Ap. (mixture)</b>	<b>Trade Names &amp; Synonyms:</b>	<b>N/E</b>
<b>Material Use:</b>	<b>Solvent, cleaner</b>	<b>Molecular Weight:</b>	<b>N.Ap.(mixture)</b>

**SECTION II-HAZARDOUS INGREDIENTS OF MATERIAL**

<b>Hazardous Ingredients</b>	<b>C.A.S.</b>	<b>Approximate Concentration</b>	<b>LD50 Species &amp; Route</b>	<b>LC50 Species &amp; Route</b>
<b>Stoddard solvent</b>	<b>8052-41-3</b>	<b>60 - 100%</b>	<b>&gt; 5 g/kg rat-oral</b>	<b>&gt; 5 g/m3 rat-inh.</b>

**SECTION III-PHYSICAL DATA FOR MATERIAL**

<b>Physical State:</b>	<b>Liquid</b>	<b>Odour/Appearance:</b>	<b>Colorless hydrocarbon odour</b>
<b>Specific Gravity:</b>	<b>0.79 @ 15 deg. C</b>	<b>Odour Threshold(p.p.m.):</b>	<b>N/A</b>
<b>Boiling Point:</b>	<b>158-195°C</b>	<b>Evaporation Rate, n Butyl Acetate=1</b>	<b>0.1</b>
<b>Freezing Point:</b>	<b>- 76°C</b>	<b>Solubility in Water:</b>	<b>Negligible</b>
<b>% Volatile(by volume):</b>	<b>100%</b>	<b>Vapour Pressure(mm)Hg:</b>	<b>2.14 @ 20 °C</b>
<b>Vapour Density(Air=1):</b>	<b>4.9</b>	<b>Coefficient of Water/Oil Distribut:</b>	<b>N/Av.</b>
<b>pH</b>	<b>N/Av.</b>		

**SECTION IV-FIRE AND EXPLOSION HAZARD OF MATERIAL**

<b>Flammability Yes/No</b>	<b>Yes, combustible liquid</b>	<b>If yes under which conditions?: upon ignition above 40°C</b>
<b>Auto Ignition Temperature:</b>	<b>260°C</b>	<b>Means of Extinction: water spray, dry chemical,</b>
<b>Flashpoint and Method:</b>	<b>43°C (Tag c.c)</b>	<b>carbon dioxide, foam.</b>
		<b>Hazardous Combustion Products: Fumes,smoke&amp; oxides of carbon.</b>
<b>Upper Flammable limit (%vol)</b>	<b>5.6</b>	<b>Lower Flammable Limit 0.8</b>
<b>Explosion Data:</b>	<b>Sensitivity to Mechanical Impact: Yes</b>	<b>Sensitivity to Static Discharge: grounding when pumping</b>

**SECTION V-REACTIVITY DATA**

<b>Chemical Stability Yes/No:</b>	<b>Yes</b>	<b>If NO under which conditions? N.Ap.</b>
<b>Incompatibility to Other Substances Yes/No:</b>	<b>Yes</b>	<b>If so which ones? Strong oxidizers</b>
<b>Reactivity and under what conditions?</b>	<b>Avoid excessive heat, open flames and all ignition sources.</b>	
<b>Hazardous Decomposition Products:</b>	<b>carbon monoxide, carbon dioxide and black smokes</b>	

**N/E.: not established** **N.Ap.: not applicable** **N/Av.: not available**

**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	Do not handle or store near an open flame, sources of heat or ignition.		
Equipment:	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
Date Prepared:	January 2, 2012.
	Prepared By: Quality Control Laboratory Kleen-Flo Tumbler Industries Limited
N/E: not established	N.Ap.: not applicable
	N/Av.: not available