

SECTION I-MATERIAL IDENTIFICATION AND USE

Material Name/Identifier:	Brake & Electrical Contact Kleen	Stock No.	326/327/328
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:	N.Ap. (mixture)
Chemical Formula:	N.Ap. (mixture)	Trade Names & Synonyms:	None
Material Use:	Cleaner/solvent	Molecular Weight:	N/Av.

SECTION II-HAZARDOUS INGREDIENTS OF MATERIAL

Hazardous Ingredients	C.A.S.	Approximate Concentration	LD50 Species & Route	LC50 Species & Route
Tetrachloroethylene	127-18-4	60 - 90%	2629mg/kg rat-oral	N/Av.
Stoddard solvent	8052-41-3	15-40%	5000mg/kg rat-oral	> 5g/m3 rat-inh

SECTION III-PHYSICAL DATA FOR MATERIAL

Physical State:	Liquid	Odour/Appearance:	Ether-like odour, colourless liquid
Specific Gravity:	1.24	Odour Threshold(p.p.m.):	N/E
Boiling Point:	121 - 160°C	Evaporation Rate:	N/E
Freezing Point:	N/E	Solubility in Water:	None
% Volatile(by volume):	100%	Vapour Pressure:	N/E
Vapour Density(Air=1):	5 (estimated)	Coefficient of Water/Oil Distribut:	N/E
pH:	N/Av		

SECTION IV-FIRE AND EXPLOSION HAZARD OF MATERIAL

Flammability Yes/No	No	If yes under which conditions:	N.Ap.
Auto Ignition Temperature:	N/E	Means of Extinction:	Dry chemica Water Fog
Flashpoint and Method:	None	Hazardous Combustion Products:	Phosgene, chlorine gas, Fumes, Smoke, Oxide of Carbon, Hydrogen chloride.
Upper Flammable limit (%vol)	6	Lower Flammable Limit (% by volume):	1
Explosion Data:	Sensitivity to Mechanical Impact: N/E	Sensitivity to Static Discharge:	N/E

SECTION V-REACTIVITY DATA

Chemical Stability Yes/No:	Yes	If NO under which conditions?	
Incompatibility to Other Substances Yes/No:	Yes	If so which ones?	Strong acids and oxidizing materials
Reactivity and under what conditions?	Open flames, fire, overheating.		
Hazardous Decomposition Products:	Hydrogen chloride & small amounts of phosgene & chlorine.		
Cabondioxide, Carbonmonoxide			
N/E: not established	N.Ap.:not applicable	N/Av.: not available	

SECTION VI-TOXICOLOGICAL PROPERTIES OF PRODUCT

Routes of Entry: ALL Routes	--SKIN CONTACT --SKIN ABSORPTION --EYE CONTACT --INHALATION --INGESTION		
Effects of Acute Exposure:	May effect central nervous system causing headaches, dizziness, nausea, fainting, unconsciousness.		
	May cause eye, skin & respiratory tract irritation.		
Effects of Chronic Exposure:	Perchloroethylene has caused Toxic effect to Kidney & liver in chronically overexposed experimental animals.		
LC 50 of Products:	N/E		
LD 50 of Product:	N/E	Exposure Limits of Prod: 1, Perchloroethylene:	25 ppm
Irritancy of Product:	Eye, Skin & Respiratory trac irritant	Petroleum solvent (as Stoddard Solvent):	100 ppm
Sensitization of Product:	N/E	Toxicologically Synergistic Materials:	N/E
--CARCINOGENICITY --REPRODUCTIVE EFFECTS --TERATOGENICITY --MUTAGENICITY			
Perchloroethylene is listed as a potential carcinogen by IARC and NTP Other effects on humans not established.			

SECTION VII-PREVENTIVE MEASURES

Personal Protective Equipment to be used:

Gloves(specify):	chemical resistant gloves	Eye (specify):	Safety goggles
Respiratory(specify):	Canister type for organic vapour mask	Clothing:	Long sleeves work coat
Respiratory Protection:	If used indoors or on a continuous basis, use of cartridge type NIOSH approved respirator is recommended		
Engineering Controls:	Adequate local or mechanical ventilation to maintain exposure below TLV(s)		
Leak and Spill Procedure:	Use non reactive absorbent material, Prevent from entering to waterways, sewage etc.		
Waste Disposal:	Dispose according to lalcal and federal governmental regulation		
Storage Requirements:	Store in well ventilated, cool and dry location. Keep away from Open flame, spark, source of ignition, excessive heat		
Handling Procedures and Equipment:	Avoid breathing vapours and contact with skin by wearing breathing apparatus and protective gloves. Handle with care, keep away form heat, source of ignition, open flame. Do not inhale or ingest.		
TDG Classification:	# 327, # 328 Toxic Liquid. Organic.n.o.s(Tetrachloroethylene solution) UN 2810 Class 6.1 Pkg. Gr. III		
	# 326 Limited Quantity		
WHMIS Classification:	Class D1B; D2A; D2B		

SECTION VIII-FIRST AID MEASURES

Eye:	Rinse thoroughly with water for at least 15 minutes. Consult physician immeditely.
Skin:	Remove contaminated clothing, wash with soap and water for 5-10 minutes, see doctor if irritation persist.
Inhalation:	Remove to fresh air.If breathing stops, give mouth to mouth resuscitation. Administer oxygen if available.
	Seek medical help immediately.
Ingestion:	DO NOT INDUCE VOMTING . Call a physician immediately.

SECTION IX-PREPARATION DATE OF M.S.D.S.

Additional Info/Comments:		Source Used: Supplier's data
Phone Number:	(905) 793-4311	Prepared By: Quality Control Laboratory
Date Prepared:	January 2, 2012.	Kleen-Flo Tumbler Industries Limited

THIS SHEET SUPERSEDES ANY OTHER M.S.D.S. PREVIOUSLY PREPARED

N/Av.: not available

N/Ap.: not applicable

N/E: not established