

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 #:	(905) 793-4311
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%	>5000mg/kg rat-oral	N/Av.
Stoddard solvent	8052-41-3	15-40%	>8000mg/kg rat-oral	> 14,100 ppm - rat

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:	160°C	Evaporation Rate:	N/E
Freezing Point:	N/E	Solubility in Water:	None
% Volatile(by volume):	100%	Vapour Pressure(mm)Hg:	13 (estimated)
Vapour Density(Air=1):	5 (estimated)	Coefficient of Water/Oil Distribut:	N/E
pH:	N/Ap		

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 chemical Water Fog
Flashpoint and Method:	None	Hazardous Combustion Products:	Carbon monoxide
			Chlorine gas.
Upper Flammable limit (%vol)	20	Lower Flammable Limit (% by volume):	4
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?	N/E	
Hazardous Decomposition Products:	Hydrogen chloride & very small amounts of phosgene & chlorine.	

N/E: not established	N.Ap.:not applicable	N/Av.: not available
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SECTION VI-TOXICOLOGICAL PROPERTIES OF PRODUCT

Routes of Entry: ALL Routes	--SKIN CONTACT --SKIN ABSORPTION --EYE CONTACT --INHALATION --INGESTION		
Effects of Acute Exposure:	Symptoms include headaches, dizziness, nausea, fainting, unconsciousness, respiratory depression.		
Effects of Chronic Exposure:	Kidney & liver damage, central nervous system effects and anesthetic or narcotic effects may appear after excessive exposure		
LC 50 of Products:	N/E		
LD 50 of Product:	N/E	Exposure Limits of Prod: 1, Perchloroethylene:	25 ppm
Irritancy of Product:	Moderate irritation to eye but no corneal inj	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):	Poly vinyl Type	Eye (specify):	Safety goggles
Respiratory(specify):	Canister type for organic vapour	Clothing:	Long sleeves, work coat
Respiratory Protection:	If used indoors or on a continuous basis, use of cartridge type respirator is recommended		
Engineering Controls:	Adequate to maintain ain airborne vapor below TLVs. Local exhaust is recommended for prolonged use.		
Leak and Spill Procedure:	Mop up and remove to out of doors; large spills - evacuate area. Contain liquid, transfer to metal		
Waste Disposal:	Send solvent to licensed reclaimer, incineration, evaporation of small quantities.		
Storage Requirements:	Store in well ventilated, cool location away from sunlight.		
Handling Procedures and Equipment:	Avoid breathing vapours and contact with skin by wearing breathing apparatus and protective gloves.		
TDG Classification:	# 326,# 327 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:	Irrigate eyes with water for at least 15 minutes,seek medical help.
Skin:	Wash off in flowing water or shower
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.

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, 2009.	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