

SECTION I-MATERIAL IDENTIFICATION AND USE

Material Name/Identifier:	Brake & Electrical Contact Kleen	Stock No.	325
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	Molecular Weight:	N.Ap (Mixture)

SECTION II-HAZARDOUS INGREDIENTS OF MATERIAL

Hazardous Ingredients	C.A.S.	Approximate Conc %wt.	LD50 Species & Route	LC50 Species & Route
Tetrachloroethylene	127-18-4	60-100%	2629mg/kg rat-oral	5200 ppm(4hr.)
Carbon Dioxide	124-38-9	1 -5	N/Av.	N/Av.
Dichoromethane	75-09-2	7 - 13	2100mg/kg. Rat-oral	88000mg/m3(rat- (1/2 hr) inhalation

SECTION III-PHYSICAL DATA FOR MATERIAL

Physical State:	Aerosol	Odour/Appearance:	Ether-like odour, colourless
Specific Gravity:	1.5	Odour Threshold(p.p.m.):	N/Av.
Boiling Point (Conc):	39.8 - 121°C	Evaporation Rate:	(butyl acetate =1) > 1
Freezing Point:	N/E	Solubility in Water:	Negligible
% Volatile(by volume):	100	Vapour Pressure(Aerosol):	55-85 psig
Vapour Density(Air=1):	>1	Coefficient of Water/Oil Distribut:	N/Av.
pH	N/Av.		

SECTION IV-FIRE AND EXPLOSION HAZARD OF MATERIAL

Flammability Yes/No	No, spray has no flame extension.	If yes under which conditions:	
Auto Ignition Temperature:	556 °C	Means of Extinction:	carbon dioxide, dry chemical, water fog
Flashpoint and Method:	none	Hazardous Combustion Products:	Possible Phosgene, Chlorine, Hydrocarbon fumes, Smoke
Upper Flammable limit,%vol	23	Lower Flammable Limit(% by volume):	13
Explosion Data:	Sensitivity to Mechanical Impact: N.Ap.	Sensitivity to Static Discharge:	N.Ap.

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?	Peroxides, inorganic acids,Oxidizers.
Reactivity and under what conditions?	Open flames, fire, overheating.		
Hazardous Decomposition Products:	Carbon monoxide, carbon dioxide, phosgene and chloring gas.		

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:	Headache, vomiting, dizziness, nausea, cough, pulmonary irritation.			
Effects of Chronic Exposure:	Inhalation of dichloromethane & perchloroethylene vapour in high concentrations may have carcinogenic effects.			
LD 50 of Product:	N/E	LC 50 of Product:	N/E	
Irritancy of Product:	May cause eye irritation	Exposure Limits of Product:	N/E	
Sensitization of Product:	N/E	Toxicologically Synergistic Materials:	N/E	
--CARCINOGENICITY --REPRODUCTIVE EFFECTS --TERATOGENICITY --MUTAGENICITY				
Dichloromethane is listed as a potential carcinogen by IARC.				
Tetrachloroethylene is listed as a potential carcinogen by IARC				
SECTION VII-PREVENTIVE MEASURES				
Personal Protective Equipment to be used:				
Gloves(specify):	chemical resistant gloves	Eye(specify):	Wear safety glasses or goggles.	
Respiratory(specify):	Organic vapour mask	Clothing:	Not required	
Respiratory Protection:	If used indoors or on a continuous basis, use of NIOSH approved cartridge type respirator is recommended			
Engineering Controls:	Local or mechanical positive exhaust ventilation required.			
Leak and Spill Procedure:	Absorbent material to be used.			
Waste Disposal:	Aerosol cans to be disposed of at local recycling depots. Or as per local regulation.			
Storage Requirements:	Store at room temperature. Keep closed when not in use.			
Handling Procedures and	Handle with care, keep away form heat, source of ignition, open flame.			
Equipment:	Keep away from children. Do not ingest or inhale.			
NFPA 30B/CNFC3.3.5	Level 1			
TDG Classification:	limited quantity			
WHMIS Classification:	Consumer Commodity	Complies with CCCR 2001		
SECTION VIII-FIRST AID MEASURES				
Eye:	Flush with water for at least 15 minutes. Consult a physician immediatel			
Skin:	Wash with clean soapy water for 5 - 10 minutes, consult doctor if irritation or rash persist.			
	Remove contaminated clothing, shoes.			
Inhalation:	Move patient to fresh air and restore breathing if required. See doctor if discomfort persist.			
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, 2012.	Kleen-Flo Tumbler Industries Limited		
THIS SHEET SUPERSEDES ANY OTHER M.S.D.S. PREVIOUSLY PREPARED				
N/E: not established		N.Ap.: not applicable		N/Av.: not available