

KLEEN-FLO TUMBLER INDUSTRIES LIMITED		MATERIAL SAFETY DATA SHEET		PAGE 1
SECTION I-MATERIAL IDENTIFICATION AND USE				
Material Name/Identifier:	Multi-kleen Plus industrial strength cleaner	Stock No.	184 / 186 / 187 / 188	
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:	Multi-Kleen Plus	
Material Use:	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
2-propanol	67-63-0	1-5 %	5045 mg/kg rat-oral	16970 ppm (4hr) rat-inh.
2-butoxyethanol	111-76-2	3-7 %	1746 mg/kg rat-oral	450 ppm (4hr) rat-inh.
Alcohol Ethoxylate	68131-39-5	5-10 %	>3200 mg/kg rat-oral	N/Av.
caustic potash (45 %)	1310-58-3	1-5 %	273 mg/kg rat-oral	N/Av.
sodium metasilicate	6834-92-0	1-5 %	0.8 g/kg rat-oral	N/Av.
sodium tripolyphosphate	7758-29-4	1-5 %	3100 mg/kg rat-oral	N/Av.
SECTION III-PHYSICAL DATA FOR MATERIAL				
Physical State:	liquid	Odour/Appearance:	lemon scent/clear, light blue	
Specific Gravity:	1.045	Odour Threshold(p.p.m.):	N/E	
Boiling Point:	N/E	Evaporation Rate:	N/E	
Freezing Point:	0°C	Solubility in Water:	Soluble	
% wt. Volatile:	N/E	Vapour Pressure(mm)Hg:	N/Av.	
Vapour Density(Air=1):	N/Av.	Coefficient of Water/Oil Distribut:	N/E	
pH	12.0-13.0			
SECTION IV-FIRE AND EXPLOSION HAZARD OF MATERIAL				
Flammability Yes/No	No	If yes under which conditions:	N.Ap.	
Auto Ignition Temperature:	N/Av.	Means of Extinction:	carbon dioxide foam, water spray	
Flashpoint and Method:	None	Hazardous Combustion Products:	None known	
Upper Flammable limit	N/Av.	Lower Flammable Limit(% by volume):	N/Av.	
(% by volume):	N.Ap.			
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?	strong oxidizing agents, strong acids	
Reactivity and under what conditions?	Heat, open flame, ignition sources			
Hazardous Decomposition Products:	Carbon and nitrogen oxides			
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: -x-SKIN CONTACT --SKIN ABSORPTION -x-EYE CONTACT -x-INHALATION --INGESTION				
Effects of Acute Exposure: WARNING: Causes severe eye and moderate skin irritation!				
Breathing vapour or mist may cause coughing, headache, nausea, intoxication, nasal and respiratory track irritation, pneumontis and tissue damage.				
Effects of chronic Exposure: No chronic effect known.				
LD 50 of Product: N/Av.		LC 50 of Product:		N/Av.
Irritancy of Product: Severe eye irritation		Exposure Limits of Product:		N/Av.
Sensitization of Product: N/E		Toxicologically Synergistic Materials:		N/Av.
--CARCINOGENICITY --REPRODUCTIVE EFFECTS --TERATOGENICITY --MUTAGENICITY				None known
Ecological Information: Readily Biodegradable.				
SECTION VII-PREVENTIVE MEASURES				
Personal Protective Equipment to be used:				
Gloves(specify):	Chemical resistant gloves.	Eye(specify):	Safety glasses	
Respiratory(specify):	Not required if used in an open area	Clothing:	chemical resistant apron	
Respiratory Protection: If used indoors or on a continuous basis, use of cartridge type NIOSH approved respirator is recommended				
Build up of mists/vapors in the working atmosphere must be prevented. Do not breath mist or vapour.				
Engineering Controls: General ventilation and local exhaust recommended.				
Leak and Spill Procedure: Neutralize spills with citric acid and soak up using non-reactive absorbent such as clay and sand or any other suitable material. Flush area with water.				
Waste Disposal: In accordance with federal and local regulation.				
Storage Requirements: Store in a cool and dry area. Do not freeze				
Handling Procedures and Equipment: Avoid inhalation, eye and skin contact. Do not swallow. Keep containers tightly closed when not in use. Keep out of reach of children.				
TDG Classification: Not Controlled				
WHMIS Classification: # 184 Consumer Commodity. # 186, # 187, # 188 D2B				
DSL All ingredients in this product are listed on the Domestic substances list.				
Hazard Rating: Health 1, Flammability 0, Reactivity 0				
SECTION VIII-FIRST AID MEASURES				
Eye: Wash with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.				
Skin: Remove contaminated clothing and flush skin with plenty of water. Call a physician if irritation persists				
Inhalation: Remove person from area of exposure. If breathing is difficult or irritation persists, call a physician.				
Ingestion: DO NOT INDUCE VOMITNG. Give a glass of water or milk and call a physician immediately.				
Do not give anything by mouth to a unconscious or convulsing person.				
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		
THIS SHEET SUPERSEDES ANY OTHER M.S.D.S. PREVIOUSLY PREPARED				
N/Av.: not available		N/Av.: not applicable		N/E: not established