

SECTION I-MATERIAL IDENTIFICATION AND USE

Material Name/Identifier:	Combustion Chamber Kleen	Stock No.	822
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 (Blended Product)	Chemical Family:	N/Ap (Mixture)
Chemical Formula:	N.Ap (Blended Product)	Trade Names & Synonyms:	None
Material Use:	Aerosolized auto cleaner	Molecular Weight:	N/Ap (mixture)

SECTION II-HAZARDOUS INGREDIENTS OF MATERIAL

Hazardous	C.A.S.	Approximate	LD50	LC50
Ingredients		Concentration	Species & Route	Species & Route
Aromatic naphtha	64742-95-6	30-60%	8400mg/kg rat-oral	5.2mg/L (4 hr)rat-inh.
Methyl isobutyl carbitol	108-11-2	3-7%	2.59 g/kg rat-oral	3776 ppm(4hr) rat-inh.
Oleic acid	112-80-1	5-10%	74 g/kg rat-oral	N/Av.
Amonium hydroxide	1336-21-6	0.1 - 1.0%	350 mg/kg rat-oral	N/Av.
2-butoxy ethanol	111-76-2	3-7%	1746 mg/kg rat-oral	400 ppm (7hr) rat-inh.
Hydrotreated heavy naphthenic	64742-52-5	1 - 5%	N/Av.	N/Av.
Hydrotreated light naphthenic	64742-53-6	1 - 5%	N/Av.	N/Av.
Petroleum liquid gases	68476-86-8	7 - 13%	N/Av.	N/Av.

SECTION III-PHYSICAL DATA FOR MATERIAL

Physical State:	Aerosol	Odour/Apearance:	hydrocarbon, ammonia odour/ clear, amber liquid
Specific Gravity:	0.89-0.92	Odour Threshold(p.p.m.):	N/Av.
Boiling Point:	N/Av.	Evaporation Rate (B.A.=1):	N/Av.
Freezing Point:	N/E	Solubility in Water:	partially
% Volatile(by volume):	N/Av.	Vapour Pressure (mm) Hg:	N/Av.
Vapour Density(Air=1):	> 1	Coefficient of Water/Oil Distribut:	N/Av.
pH	9-10.5 (5% vol)		

SECTION IV-FIRE AND EXPLOSION HAZARD OF MATERIAL

Flammability Yes/No	Yes	If yes under which conditions?:	Combustible, may explode if heated
Auto Ignition Temperature:	N/Av.	Means of Extinction:	Carbon dioxide, water fog, dry chemicals, alcohol foam
Flashpoint and Method:	44 oC TCC	Hazardous Combustion Products:	Carbon dioxide, carbon monoxide
			and other unidentified organic compounds.
Upper Flammable limit, % vol.	N/Av.	Lower Flammable Limit (% by volum):	N/Av.
Explosion Data:	Sensitivity to Mechanical Impact: No.	Sensitivity to Static Discharge:	No.

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
Reactivity and under what conditions?	Combustible, avoid excessive heat, sparks and open flame		
Hazardous Decomposition Products:	Carbon monoxide, carbon dioxide and unidentified organic compounds		

Material Name/Identifier: Combustion Chamber Kleen		Stock No. 822		PAGE 2
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 skin irritation, Eye irritation, tearing, redness or even blurred vision. Inhalation may casue respiratory system irritation, central nervous system depression, dizziness, headache, unconsciousness. Ingestion may casue nausea vomiting, diarrhea. Aspiration in to lungs may cause chemical pneumonitis, which can be fatal.			
Effects of Chronic Exposure:	Chronic exposure to 2-Butoxyethanol May cause liver, kidney or blood damage.			
LD 50 of Product:	N/Av.	LC 50 of Product:	N/Av.	
Irritancy of Product:	Eye & Skin Irritant	Exposure Limits of Prod: oil mist 5mg/m3, TLV		
Sensitization of Product:	N/E	Toxicologically Synergistic Materials:		N/Av.
--CARCINOGENICITY --REPRODUCTIVE EFFECTS --TERATOGENICITY --MUTAGENICITY				None Known
SECTION VII-PREVENTIVE MEASURES				
Personal Protective Equipment to be used:				
Gloves(specify):	Neoprene, Nitrile	Eye(specify):	Safety Glasses	
Respiratory (specify):	NIOSH approved 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 exhaust ventilation is required.			
Leak and Spill Procedure:	Remove all sources of ignition, contain and collect spilled material, use inert absorbent material, non-sparking tools.			
Waste Disposal:	Standard methods as approved in your region by local govt. authority.			
Storage Requirements:	Store in a cool, well ventilated area, temperature should not to exceed 40°C			
Handling Procedures and	Use adequate ventilation. Avoid skin and eye contact. Do not inhale or ingest. Keep away from children.			
Equipment:	Contents under pressure. Keep away from heat, spark, flame and other sources of ignition			
NFPA30B/CNFC 3.3.5	Level 2			
TDG Classification:	Consumer Commodity			
WHMIS Classification:	Consumer Commodity	Complies with CCCR 2001		
SECTION VIII-FIRST AID MEASURES				
Eye:	Flush immediately with water for at least 15 minutes. Seek immediate medical help if discomfort persists.			
Skin:	Flush immediately and thoroughly with soap and water. Contact doctor if rash, irritation persist.			
Inhalation:	Move patient to fresh air and restore breathing if required. See doctor if discomfort persist.			
Ingestion:	Seek immediate medical attention. DO NOT INDUCE VOMITING. Rinse mouth with water.			
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:	Janaury 2, 2015.	Kleen-Flo Tumbler Industries Limited		
THIS SHEET SUPERSEDES ANY OTHER M.S.D.S. PREVIOUSLY PREPARED				
N/E: not established		N/Av.: not applicable		N/Av.: not available