

KLEEN-FLO TUMBLER INDUSTRIES LIMITED			MATERIAL SAFETY DATA SHEET		PAGE 1
SECTION I-MATERIAL IDENTIFICATION AND USE					
Material Name/Identifier:	Odour-Kleen	Stock No.	306		
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.	Chemical Family:	N/Ap. (mixture)		
Chemical Formula:	N/Ap. (mixture)	Trade Names & Synonyms:	Odour-Kleen		
Material Use:	Odour neutralizer & air refresher	Molecular Weight:	N/Ap. (mixture)		
SECTION II-HAZARDOUS INGREDIENTS OF MATERIAL					
Hazardous Ingredients	C.A.S.	Approximate Concentration	LD50 Species & Route	LC50 Species & Route	
D-Limonene	5989-27-5	30 -60 %	4400 mg/kg rat-oral	N/Av.	
Ethanol	64-17-5	10 -30 %	7060 mg/kg rat-oral	31623 ppm, rat- 4hr.	
Propylene Glycol	57-55-6	1 - 5 %	20000mg/kg rat-oral	N/Av.	
Isobutane	75-28-5	15 - 40 %	N/Ap.	142500 ppm(4h) Inhal-rat	
Propane	74-98-6	5 - 10 %	>5000mg/kg Dermal-rabbit	N/Av.	
SECTION III-PHYSICAL DATA FOR MATERIAL					
Physical State:	aerosol	Odour/Appearance:	citrus/clear light yellow liquid		
Specific Gravity:	0.73-0.77	Odour Threshold(p.p.m.):	N/E		
Boiling Point (Conc.):	75-175 °C	Evaporation Rate:	> 1		
Freezing Point:	N/Av.	Solubility in Water:	miscible in water		
% Volatile(by volume):	99%	Vapour Presuure (Aerosol)	35-45 psig		
Vapour density	> 1	Coefficient of Water/Oil Distribut:	N/E		
pH	N/Ap.				
SECTION IV-FIRE AND EXPLOSION HAZARD OF MATERIAL					
Flammability Yes/No	Yes, Exteremely Flammable	If yes under which conditions?: open flame or spark or heat			
Auto Ignition Temperature:	N/Av.	Means of Extinction: Water, Foam, Carbon dioxide,Dry Chemical			
Flashpoint and Method:	13 °C (liquid phase)	Hazardous Combustion Products: Hydrocarbon fumes and smoke.			
Flame extension	>45 cm <100 cm	carbon monoxide where combustion incomplete.			
flashback	None				
Upper Flammable limit	6.1 %vol	Lower Flammable Limit(% by volume): 0.7			
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 agent			
Reactivity and under what conditions?	Avoid contact with strong oxidizing agents, strong acids, strong alkalies .				
Hazardous Decomposition Products:	Hydrocarbon fumes and smoke, carbon monoxide where combustion is incomplete				
N/E: not established					
N.Ap.: not applicable					
N/Av.: not available					

SECTION VI-TOXICOLOGICAL PROPERTIES OF PRODUCT

Route of Entry: ALL Routes	--SKIN CONTACT --SKIN ABSORPTION --EYE CONTACT --INHALATION --INGESTION		
Effects of Acute Exposure:	Inhalation: Excessive vapors may be irritating to nose , throat and respiratory tract. It may also		
	cause central nervous system effect including dizziness, weakness, fatigue, nausea, headache and		
	and possible unconsciousness.		
Effectgs of chronic exposure:	Prolonged or repeated skin contact may lead to skin dermatitis.		
LD 50 of Product:	N/E	LC 50 of Product:	N/E
Irritancy of Product:	Skin and eyes irritant	Exposure Limits of Product:	N/E
Sensitization of Product:	N/E	Toxicologically Synergistic Materials:	N/E
--CARCINOGENICITY --REPRODUCTIVE EFFECTS --TERATOGENICITY --MUTAGENICITY			none known

SECTION VII-PREVENTIVE MEASURES

Personal Protective Equipment to be used:

Gloves(specify):	Not required under normal use	Eye(specify):	Safety glasses
Respiratory(specify):	Not required under normal use	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 ventilation required.		
Leak and Spill Procedure:	Remove sources of ignition. Use an inert absorbent material and non-sparkling tools. Avoid breathing fumes		
Waste Disposal:	Do not puncture or incinerate, even with empty cans. Dispose off according to local or federal regulation.		
Storage Requirements:	Store in a cool, well ventilated area where temperature not to exceed 50°C		
Handling Procedures and	Use with adequate ventilation. Contents under pressure. Keep away from heat, sparks, flames and		
Equipment:	other sources of ignition. Handle with care. Keep away from children. Do not inhale or ingest.		
DSL	All ingredients are in the Domestic substance listing.		
NFPA/CFNC 3.3.5	Level 2		
TDG Classification:	Limited Quantity		
WHMIS Classification:	Consumer Commodity	Complies to CCCR 2001	

SECTION VIII-FIRST AID MEASURES

Eye:	Flush immediately with fresh water for at least 15 minutes. See a doctor immediately.
Skin:	Wash with soap and water, consult a doctor if irritation or rashes persist.
Inhalation:	Move patient to fresh air and restore breathing if required. Call a physician if discomfort persist.
Ingestion:	DO NOT INDUCE VOMITING. Get medical attention immediately.

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

Additional Info/Comments:		Sourced 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/Ap.: not applicable

N/E: not established

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