

KLEEN-FLO TUMBLER INDUSTRIES LIMITED		MATERIAL SAFETY DATA SHEET		PAGE 1
<b>SECTION I-MATERIAL IDENTIFICATION AND USE</b>				
Material Name/Identifier:	Brake & Parts Kleen(Non Chlorinated)	Stock No.	313	
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/Av. (mixture)	
Chemical Formula:	N.Ap. (mixture)	Trade Names & Synonyms:	none	
Material Use:	Cleaner	Molecular Weight:	N.Ap. (mixture)	
<b>SECTION II-HAZARDOUS INGREDIENTS OF MATERIAL</b>				
Hazardous Ingredients	C.A.S.	Approximate Conc. %wt.	LD50 Species & Route	LC50 Species & Route
Heptane	142-82-5	60-100	>15000 mg/kg rat-oral	103g/m3 (4hr) rat-inhal
Isopropyl alcohol	67-63-0	10 -30	>4720 mg/kg rat-oral	12000 ppm rat- (8 hr) inhl.
Carbon dioxide	124-38-9	3 -7	N/Av	N/Av.
<b>SECTION III-PHYSICAL DATA FOR MATERIAL</b>				
Physical State:	aerosol	Odour/Appearance:	Solvent-like, clear, colorless	
Specific Gravity:	0.7	Odour Threshold(p.p.m.):	N/E	
Boiling Point: (on conc.)	80 -100 °C	Evaporation Rate:	> 1 (water=1)	
Freezing Point:	N/Av.	Solubility in Water:	partial soluble	
% Volatile(by volume):	100%	Vapour Pressure(mm)Hg:	N/E	
Vapour Density(Air=1):	>1	Coefficient of Water/Oil Distribut:	N/E	
pH	N.Ap.			
<b>SECTION IV-FIRE AND EXPLOSION HAZARD OF MATERIAL</b>				
Flammability Yes/No	Yes, Highly flammable	If yes under which conditions?: Open flame, Spark, Excessive heat		
Auto Ignition Temperature:	204-399 °C	Means of Extinction: Water fog, Dry Chemical, Foam		
Flashpoint (Concentrate):	Lowest known Heptane -7 °C, T.C.C.	Hazardous Combustion Products: hydrocarbon fumes and		
Flame extension	>45 cm	smoke, carbon monoxide where combustion is incomplete.		
Upper Flammable limit (%vol)	12	Lower Flammable Limit(% by volume): 1.2		
Explosion Data:	Sensitivity to Mechanical Impact: N.Av.	Sensitivity to Static Discharge: N/E		
<b>SECTION V-REACTIVITY DATA</b>				
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?	Excessive heat, open flame, spark			
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				

Material Name/Identifier: Brake & Parts Kleen(Non Chlorinated)		Stock No. 313		PAGE 2
<b>SECTION VI-TOXICOLOGICAL PROPERTIES OF PRODUCT</b>				
Route of Entry: ALL Routes	--SKIN CONTACT --SKIN ABSORPTION --EYE CONTACT --INHALATION --INGESTION			
Effects of Acute Exposure:	May cause Dizziness, nausea, vomiting, weakness, eye and skin irritation.			
Effects of Chronic Exposure:	Solvents may cause defatting dermatitis.			
LD 50 of Product:	N/E	LC 50 of Product:	N/E	
Irritancy of Product:	Skin and eye irritant	Exposure Limits of Product:	N/E	
Sensitization of Product:	N/E	Toxicologically Synergistic Materials:	N/E	
--CARCINOGENICITY --REPRODUCTIVE EFFECTS --TERATOGENICITY --MUTAGENICITY			none known	
<b>SECTION VII-PREVENTIVE MEASURES</b>				
Personal Protective Equipment to be used:				
Gloves(specify):	Nitrile, vinyl or chemical resistant gloves	Eye(specify):	Wear eye/face protection	
Respiratory(specify):	Wear cartridge type respirator	Clothing:	Not required	
Respiratory Protection:	If used indoors or on a continuous basis, use of NIOSH approved cartridge type respirator is recommended			
Engineering Controls:	Use adequate ventilation.			
Leak and Spill Procedure:	Use inert absorbent material, non sparking tools to contain spills. Ventilate area. Prevent from entering sewage or waterways.			
Waste Disposal:	Do not puncture or incinerate, even when can is empty. Dispose as per local, provincial regulation.			
Storage Requirements:	Store in a cool, well ventilated area where temperature not to exceed 50°C			
Handling Procedures and Equipment:	Use with adequate ventilation. Contents under pressure. Keep away from heat, sparks, flame and other sources of ignition. Keep away from children. Do not inhale or ingest.			
DSL	All ingredients are in the Domestic substance listing.			
NFPA 30B/CNFC 3.3.5	Level 3			
TDG Classification:	Consumer Commodity			
WHMIS Classification:	A, B5, D2-B			
<b>SECTION VIII-FIRST AID MEASURES</b>				
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.			
<b>SECTION IX-PREPARATION DATE OF M.S.D.S.</b>				
Additional Info/Comments:		Source used: Supplier's data		
Phone Number:	(905) 793-4311	Prepared By: Quality Control Laboratory		
Date Prepared:	January 2, 2015	Kleen-Flo Tumbler Industries Limited		
<b>THIS SHEET SUPERSEDES ANY OTHER M.S.D.S. PREVIOUSLY PREPARED</b>				
N/Av.: not available		N/Ap: not applicable		N/E: not established