

KLEEN-FLO TUMBLER INDUSTRIES LIMITED			MATERIAL SAFETY DATA SHEET		PAGE 1
SECTION I-MATERIAL IDENTIFICATION AND USE					
Material Name/Identifier:	Non-Chlorinated Brake & Parts Cleaner	Stock No.		322/323/324	
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:		nil	
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	
Heptane	142-82-5	40 - 70 %	15000 mg/kg rat-oral	103g/m3 rat-inh.	
2-propanol	67-63-0	40 - 70 %	4420-5840mg/kg rat-oral	22627 ppm rat-inh	
SECTION III-PHYSICAL DATA FOR MATERIAL					
Physical State:	Liquid	Odour/Appearance:	Clear liquid with aliphatic hydrocarbon odor.		
Specific Gravity:	0.76	Odour Threshold(p.p.m.):	N/E		
Boiling Point:	113°C	Evaporation Rate:	N/E		
Freezing Point:	N/Av.	Solubility in Water:	Partial		
% Volatile(by volume):	100%	Vapour Pressure(mm)Hg:	N/E		
Vapour Density(Air=1):	> 1	Coefficient of Water/Oil Distribut:	N/Av.		
pH	N/Ap.				
SECTION IV-FIRE AND EXPLOSION HAZARD OF MATERIAL					
Flammability Yes/No	Yes	If yes under which conditions: open flame or spark			
Auto Ignition Temperature:	N/E	Means of Extinction: water spray, dry chemical, carbon dioxide foam			
Flashpoint and Method:	< - 4°C TCC	Hazardous Combustion Products: Carbon dioxide			
		carbon monoxide and various hydrocarbons			
Upper Flammable limit (% vol)	6	Lower Flammable Limit(% by volume): 1			
Explosion Data:	Sensitivity to Mechanical Impact : Yes	Sensitivity to Static Discharge: Use grounded equipment			
SECTION V-REACTIVITY DATA					
Chemical Stability Yes/No:	Yes	If NO under which conditions?			
Incompatibility to Other Substances Yes/No:	Yes	If so which ones? Strong oxidizing agents, strong acids			
Reactivity and under what conditions?	none known				
Hazardous Decomposition Products:	black smoke, carbon monoxide, carbon dioxide and oxides of hydrocarbons				
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:	May cause headache, nausea, vomiting and weakness.				
	Inhalation of solvents may cause irritation. Eye contact may cause mild irritation.				
Effects of Chronic Exposure:	Solvents may cause defatting dermatitis.				
Irritancy of Product:	Skin and eyes	Exposure Limits of Product:	N/Av.		
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):	Nitril, Neoprene, Chemical resistant	Eye(specify):	safety goggles		
Respiratory(specify):	organic vapour mask	Clothing:	Not required		
Respiratory Protection:	If used indoors or on a continuous basis, use of cartridge type NIOSH approved respirator is recommended				
Engineering Controls:	Local or mechanical ventilation required.				
Leak and Spill Procedure:	Use non-reactive absorbent material and non sparking tools to contain spills.				
Waste Disposal:	Use approved waste disposal service. Follow local or federal regulation.				
Storage Requirements:	Keep container closed. Store in a cool well ventilated place. Keep away from heat, spark and ignition sources.				
DSL listing	All components are listed.				
Handling Procedures and	Do not spray on hot surfaces. It may auto-ignite. Do not handle or store near openflame, heat or source of ignition				
Equipment:	Avoid skin contact and prolonged inhalation.				
TDG Classification:	Flammable Liquids n.o.s (Petroleum Distillate/Isopropanol),UN1993, Class 3, Pg. II				
WHMIS Classification:	B2, D2A & D2B				
SECTION VIII-FIRST AID MEASURES					
Eye:	Flush immediately with fresh water for at least 15 minutes. If discomfort persists see a physician immediately.				
Skin:	Remove contaminated clothing. Wash with soap and water. If rash persists contact a physician.				
Inhalation:	Move patient to fresh air and restore breathing if required. If discomfort persist see a doctor.				
Ingestion:	DO NOT INDUCE VOMITNG. Rinse mouth with water then drink one (1) glass of water. Seek immediate medical assistance.				
SECTION IX-PREPARATION DATE OF M.S.D.S.					
Additional Info/Comments:		Sources Used:	Supplier's data 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	