

KLEEN-FLO TUMBLER INDUSTRIES LIMITED			MATERIAL SAFETY DATA SHEET		PAGE 1
SECTION I-MATERIAL IDENTIFICATION AND USE					
Material Name/Identifier:	Flat Black High Heat	Stock No.	4601		
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/Av. (mixture)	Chemical Family:	Modified resin solution		
Chemical Formula:	N/Av. (mixture)	Trade Names & Synonyms:	none		
Material Use:	Hi-Heat Paint	Molecular Weight:	N/Av. (mixture)		
SECTION II-HAZARDOUS INGREDIENTS OF MATERIAL					
Hazardous Ingredients	C.A.S.	Approximate %Concentration	LD50 Species & Route	LC50 Species & Route	
Xylene	1330-20-7	5-10	4300 mg/kg rat-oral	6350 ppm (4hr) rat-inh.	
Acetone	67-64-1	30-60	>9750 mg/kg rat-oral	>16000 ppm (4hr) rat-inh.	
Toluene	108-88-3	7-13	5000mg/kg rat-oral	8000 ppm(4hr) rat-inh.	
Propylene Glycol Methyl Ether Acetate	108-65-6	1-5	8500mg/kg rat-oral	>4345 ppm(6hr) rat-inh.	
Ethyl benzene	100-41-4	1 -5	5460 mg/kg rat-oral	N/Av.	
Black Iron Oxide	1317-61-9	1-5	N/Av.	N/Av.	
Propane	74-98-6	10-30	>5000 mg/kg rabbits-Dermal	N/Av.	
Isobutane	75-28-5	5-10	N/Av.	142,500 ppm (4hr) rat-inhal	
SECTION III-PHYSICAL DATA FOR MATERIAL					
Physical State:	Aerosol	Odour/Appearance:	Ketone odour/black liquid		
Specific Gravity:	0.91-0.95	Odour Threshold(p.p.m.):	N/Av.		
Boiling Point:	57 to 150°C	Evaporation Rate:	>1		
Freezing Point:	N/Av.	Solubility in Water:	N/Av.		
% Volatile(by volume):	82-83	Vapour Pressure:	55-65 psig		
Vapour Density(Air=1):	> 1	Coefficient of Water/Oil Distribut:	N/Av.		
pH	N/Av.				
SECTION IV-FIRE AND EXPLOSION HAZARD OF MATERIAL					
Flammability Yes/No	Yes	If yes under which conditions?: Excessive heat, open flame or sparks			
Auto Ignition Temperature:	272-527°C	Means of Extinction:Water, Carbon dioxide, dry chemical, foam			
Flashpoint and Method:	> -18°C	Tag. C.C	Hazardous Combustion Products: Hydrocarbon fumes &		
Aerosol Flame Projection	> 15 cm But <100 cm	smoke. Carbon monoxide where combustion is incomplete.			
Flashback	None				
Upper Flammable limit(%vol)	15.1	Lower Flammable Limit (% by volume):		2.6	
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 oxidzers	
Reactivity and under what conditions?	N/E				
Hazardous Decomposition Products:	Hydrocarbon fumes & smoke. Carbon monoxide where combustion is incomplete.				
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:	Dizziness, nausea. Irritation to skin & eyes.		
Effects of Chronic Exposure:	Solvents may cause defatting dermatitis.		
Irritancy of Product:	Irritant to eyes and skin	Exposure Limits of Product:	N/E
Sensitization of Product:	Presently Unknown	Toxicologically Synergistic Materials:	N/E
--CARCINOGENICITY --REPRODUCTIVE EFFECTS --TERATOGENICITY --MUTAGENICITY			
Toluene- prolonged and repeated exposure of pregnant animals to toluene (levels greater than approximately 1500 ppm) has been reported to cause adverse fetal development effects. Xylene: High exposures to Xylene in some animal studies, often at levels toxic to the mother, affected embryo/fetal development. The Significance of this finding to Human is not known Xylene- this product contains EthylBenzene (EthylBenzene is in Xylene). Ethylbenzene has been shown to cause cancer in laboratory animals. Toxicity tests carried out for chronic effects and mutagenicity have been negative. The Relevance of this finding to human is uncertain. IARC has Classified EthylBenzene as a possible human carcinogen.			
SECTION VII-PREVENTIVE MEASURES			
Personal Protective Equipment to be used:			
Gloves(specify):	Wear chemical resistant gloves	Eye (specify):	Safety Glasses
Respiratory(specify):	NIOSH/MSHATC 23C Organic vapor 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:	Ventilation - Local (Mechanical if used indoors on continuous basis)		
Leak and Spill Procedure:	Remove all sources of ignition. Use inert absorbent material, and non-sparking tools. Avoid breathing fumes. Ventilate area. Prevent from entering a watercourse.		
Waste Disposal:	Do not Puncture or incinerate containers even when empty. Dispose of in accordance with local, provincial and federal regulations. Aerosol cans to be disposed of at local recycling depots.		
Storage Requirements:	Store in a cool, well ventilated area not to exceed 50°C		
NPFA 30B/CNFC 3.3.5	Level 2		
Handling Procedures and Equipment:	Keep away from heat, sparks and open flames. Keep away from children. Donot inhale or ingest.		
DSL listing	All components are listed in the inventory.		
TDG Classification:	Consumer Commodity (Aerosols, UN1950, Class 2.1)		
WHMIS Classification:	A, B5,D1B, D2A, D2B	Complies with CCCR 2001	
SECTION VIII-FIRST AID MEASURES			
Eye:	Flush immediately with plenty of water for at least 15 minutes and get immediate medical attention.		
Skin:	Wash thoroughly with soap and water. If irritation and rash persists seek medical attention.		
Inhalation	Remove to fresh air. Restore breathing if required. Seek immediate medical attention if discomfort persist.		
Ingestion:	DO NOT INDUCE VOMITING. Get immediate medical attention.		
SECTION IX-PREPARATION DATE OF M.S.D.S.			
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	
THIS SHEET SUPERSEDES ANY OTHER M.S.D.S. PREVIOUSLY PREPARED			
N/E: not established		N.Ap.: Not applicable	N. Av. not available