CECTION I MATERIAL INCOME	nited	Safe-T-Brake		MATERIAL SA		SHEET PAG		
SECTION I-MATERIAL IDENT	IFICATION AND US	<u>r</u>						
Material Name/Identifier:	Safe -T-Brake		Stock No.			509/510/511/513		
Manufacturer's Name:	Kleen-Flo Tumbler Industries Ltd		Street Address:			75 Advance Blvd.		
City:	Brampton		Province:			Ontario		
Postal Code:	L6T 4N1		Emergency 1	Phone #:		CANUTEC:- 613-996-6666 (24HR)		
Chemical Name:	N/Ap (mixture)		Chemical Family:			Alcohol		
Chemical Formula:	N/Ap (mixture)		Trade Names & Synonyms:			Safe-T-Brake		
Material Use:	Air Brake Anti-Freeze		Molecular Weight:			N/Ap.		
SECTION II-HAZARDOUS ING	REDIENTS OF MAT	<u>ERIAL</u>						
Hazardous		Approximate	LD50		LC50			
Ingredients	C.A.S.	Conc. %wt.	Species & Route			Species & Route		
Methanol	67-56-1	60 - 100%	-		64000 ppm (64000 ppm (4hrs) rat-inh.		
SECTION III-PHYSICAL DATA	FOR MATERIAL			_				
Physical State:	Liquid	Odour/Appearance:		Colourless with alcoholic odour.				
Specific Gravity:	0.792	Odour Threshold(p.p.m.):		N/Av.				
Boiling Point:	64.5°C	Evaporation Rate:		4.1				
Freezing Point:	-97.8°C	Solubility in Water:		miscible				
% Volatile(by volume):	100	Vapour Pressure(mm	Vapour Pressure(mm)Hg:		96 mm Hg @ 20°C			
Vapour Density(Air=1):	1.105 @ 15°C	Coefficient of Water/C	Coefficient of Water/Oil Distribut:		readily soluble in water, separates from oil.			
pH	7 - 8							
		MATERIAL						
SECTION IV-FIRE AND EXPLO	DSION HAZARD OF 1							
SECTION IV-FIRE AND EXPLO	Yes	If yes under which co	nditions:	Can be ignited u	ınder almost a	ll normal temp. conditions.		
Flammability Yes/No	Yes	If yes under which co	ng: Carbondio	xide, Dry chemical	l media for sm			
Flammability Yes/No Auto Ignition Temperature:	Yes 385°C	If yes under which co Means of Extinguishi	ng: Carbondio	xide, Dry chemical esistant foam for l	l media for sm arge fire.	all fire.		
Flammability Yes/No Auto Ignition Temperature:	Yes 385°C	If yes under which co Means of Extinguishi Water spray in a fog f	ng: Carbondio form, Alcohol ro on Products: F	xide, Dry chemical esistant foam for l	l media for sm arge fire. des of carbon o	all fire.		
Flammability Yes/No Auto Ignition Temperature: Flashpoint and Method:	Yes 385°C 11.5°C TCC 36.5	If yes under which co Means of Extinguishi Water spray in a fog f	ng: Carbondio form, Alcohol ro on Products: F Lower Flam	xide, Dry chemical esistant foam for l umes, smokes, oxid	l media for sm arge fire. des of carbon o y volume):	all fire. & formalddhyde.		
Flammability Yes/No Auto Ignition Temperature: Flashpoint and Method: Upper Flammable limit (%vol)	Yes 385°C 11.5°C TCC 36.5 Sensitivity of mee	If yes under which co Means of Extinguishi Water spray in a fog f Hazardous Combusti	ng: Carbondio form, Alcohol ro on Products: F Lower Flam	esistant foam for l umes, smokes, oxid mable Limit(% by	l media for sm arge fire. des of carbon o y volume):	all fire. & formalddhyde. 6		
Flammability Yes/No Auto Ignition Temperature: Flashpoint and Method: Upper Flammable limit (%vol) Explosion Data: SECTION V-REACTIVITY DAT	Yes 385°C 11.5°C TCC 36.5 Sensitivity of mee	If yes under which co Means of Extinguishi Water spray in a fog f Hazardous Combusti	ng: Carbondio form, Alcohol re on Products: F Lower Flam Sensitivity to	esistant foam for l umes, smokes, oxid mable Limit(% by	I media for sm arge fire. des of carbon o y volume): Yes	all fire. & formalddhyde. 6		
Flammability Yes/No Auto Ignition Temperature: Flashpoint and Method: Upper Flammable limit (%vol) Explosion Data:	Yes 385°C 11.5°C TCC 36.5 Sensitivity of med	If yes under which co Means of Extinguishi Water spray in a fog f Hazardous Combusti chanical Impact: Yes	ng: Carbondio form, Alcohol re on Products: F Lower Flam Sensitivity to	xide, Dry chemical esistant foam for la umes, smokes, oxionable Limit(% by Static Discharge:	I media for sm arge fire. des of carbon o y volume): Yes	all fire. & formalddhyde. 6 Use grounded quipment.		
Flammability Yes/No Auto Ignition Temperature: Flashpoint and Method: Upper Flammable limit (%vol) Explosion Data: SECTION V-REACTIVITY DAT Chemical Stability Yes/No:	Yes 385°C 11.5°C TCC 36.5 Sensitivity of med	If yes under which co Means of Extinguishi Water spray in a fog f Hazardous Combusti chanical Impact: Yes Yes	ng: Carbondioz form, Alcohol re on Products: F Lower Flam Sensitivity to If NO under	xide, Dry chemical esistant foam for laumes, smokes, oxionable Limit(% by Static Discharge:	I media for sm arge fire. des of carbon o y volume): Yes	all fire. & formalddhyde. 6 Use grounded quipment. N.Ap.		
Flammability Yes/No Auto Ignition Temperature: Flashpoint and Method: Upper Flammable limit (%vol) Explosion Data: SECTION V-REACTIVITY DAT Chemical Stability Yes/No:	Yes 385°C 11.5°C TCC 36.5 Sensitivity of med	If yes under which co Means of Extinguishi Water spray in a fog f Hazardous Combusti chanical Impact: Yes Yes	ng: Carbondioz form, Alcohol re on Products: F Lower Flam Sensitivity to If NO under	xide, Dry chemical esistant foam for la umes, smokes, oxic mable Limit(% by Static Discharge: which conditions ones? ith metallic alumin	I media for sm arge fire. des of carbon o y volume): Yes :? strong acids, num or magnis	all fire. & formalddhyde. 6 Use grounded quipment. N.Ap. strong bases & strong oxidizers. sium and generate hydrogen gas.		
Flammability Yes/No Auto Ignition Temperature: Flashpoint and Method: Upper Flammable limit (%vol) Explosion Data: SECTION V-REACTIVITY DAT Chemical Stability Yes/No: Incompatibility to Other Substance	Yes 385°C 11.5°C TCC 36.5 Sensitivity of med A ces Yes/No:	If yes under which co Means of Extinguishi Water spray in a fog f Hazardous Combusti chanical Impact: Yes Yes Yes	ng: Carbondioz form, Alcohol re on Products: F Lower Flam Sensitivity to If NO under If so which May react win flame and in c	xide, Dry chemical esistant foam for la umes, smokes, oxic mable Limit(% by Static Discharge: which conditions ones? ith metallic alumin ontact with incom	I media for sm arge fire. des of carbon of y volume): Yes 2 strong acids, num or magnis	all fire. & formalddhyde. 6 Use grounded quipment. N.Ap. strong bases & strong oxidizers. sium and generate hydrogen gas.		

Material Name/Identifier:	Safe -T-Brake		Stock No.	509/510/511/513	PAGE 2				
SECTION VI-TOXICOLOGICAL	L PROPERTIES OF PRODUCT								
Route of Entry: All routes	SKIN CONTACTSKIN ABSORPTIONEYE CONTACTINHALATIONINGESTION								
Effects of Acute Exposure:									
-	central nervous system. May cause visual disturbance or blindness.								
Effects of Chronic Exposure:	May cause visual impairment and progress to contraction of visual fields and sometimes complete								
-	blindness. The fatal internal dosage is 60 - 250 ml.								
Irritancy of Product:	Skin and eye irritant								
Sensitization of Product:	N/E	Toxicologically Synergistic Materials: N/E							
CARCINOGENICITYREPR	ODUCTIVE EFFECTSTERATOGENICITY	MUTAGENI	CITY	none known					
SECTION VII-PREVENTIVE MI Personal Protective Equipment to									
Gloves(specify):	Butyl Rubber, Nitrile, Chemical resistant gl	oves	Eye(specify):	Safety Goggles					
Respiratory(specify):	Not required in normal use		Clothing:	Not required in normal use					
Respiratory Protection:	If used indoors or on a continuous basis, use	e of NIOSH ap		· •					
Engineering Controls:	Local or mechanical ventilation required to	maintain expo	sure limit below	ΓLV.					
Leak and Spill Procedure:	Remove all sources of ignition. Use non spa	rking, explosio	n proof equipmen	t. Use non reactive absorbent, Contain					
	liquid, dispose waste material at an approve	dhazardous w	aste disposal facili	ity in accordance with local, provincial					
	and federal regulation.		-	· · · · · · · · · · · · · · · · · · ·					
Waste Disposal:	Dispose off at an approved waste disposal fa	Dispose off at an approved waste disposal facility.							
Storage Requirements:	Keep away from open flames or sparks. Store in a cool place where temperature below 40 °C.								
Handling Procedures and	Keep away from children. Do not inhale or i	Keep away from children. Do not inhale or ingest.							
Equipment:	Use of spark resistant tools and equipment is recommended.								
TDG Classification:	Flammable Liquids, Toxic. Organic, n.o.s.(methanol mixt	ure) Class 3 (6.1)	UN 1992, Pkg.Gr.II #510, #511, #513					
	#509 Limited Quantity								
WHMIS Classification:	#509 Consumer commodity	#510, #511 &	513: B2, D1B, D	D2A, D2B					
SECTION VIII-FIRST AID MEA	SURES								
Eye:	Flush with fresh water for at least 15 minutes. Seek immediate medical attention immediately.								
Skin:	Wash with soap and water see doctor if irritation persist.								
Inhalation:	Move patient to fresh air and restore breathing if required. Call a physician immediately if discomfort persist.								
Ingestion:	DO NOT INDUCE VOMITING. If person is conscious then give a glass of water. Do not give anything by mouth to unconscious								
SECTION IX-PREPARATION D	person. Vomiting should be induce under th ATE OF M.S.D.S.	e direction of I	Ooctor only. Call o	loctor immediately.					
Additional Info/Comments:		Sources Used	l: Supplier's data	ı					
Phone Number:	(905) 793-4311		: Quality Control						
Date Prepared:	January 2, 2015		Kleen-Flo Tui	mbler Industries Limited					
N/Av.: not availa	able N/Ap.: not applicable			N/E: not established					