KLEEN-FLO TUMBLER IND	OUSTRIES LIMITEI	D	MATERIAL	SAFETY DA	TA SHEET	PAGE 1	
SECTION I-MATERIAL IDE	NTIFICATION ANI	O USE					
Material Name/Identifier:	Lock-De-Icer		Stock No.		612		
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:	Alcohol		Chemical Family:			Alcohol	
Chemical Formula:	N. Ap (Mixture)		Trade Names & Synonyms:		s :	None	
Material Use:	Spray de-icer	Molecular Weight:			N. Ap (Mixture)		
SECTION II-HAZARDOUS II	NGREDIENTS OF M	<u>MATERIAL</u>					
Hazardous		Approximate	LD50		LC50		
Ingredients	C.A.S.	Concentration	Species & Route		Species & Route		
Isopropyl Alcohol	67-63-0	60 - 100%	5045 mg/kg rat-oral		16000 ppm (4hr) rat-inh.		
Carbondioxide	124-38-9	5-10%	N. Ap		N/Av.		
SECTION III-PHYSICAL DA	TA FOR MATERIA	<u>L</u>					
Physical State:	liquid aerosol	Odour/Appearance:		alcohol odour/ clear, colourless liquid			
Specific Gravity:	0.79	Odour Threshold(p.p.r	n.):): N/E			
Boiling Point:	82°C	Evaporation Rate:		1.4 (Butyl acetate=1)			
Freezing Point:	N/E	Solubility in Water:		85%			
% Volatile(by volume):	100	Vapour Pressure(mm)Hg:		33mmHg @68°F			
Vapour Density(Air=1):	N/E	Coefficient of Water/Oil Distribut:		N/E			
рН	N/Av.						
SECTION IV-FIRE AND EXP	PLOSION HAZARD	OF MATERIAL					
Flammability Yes/No	Yes	If yes under which conditions:Open flame, spark, heat					
Auto Ignition Temperature:	N/E		Means of Extinction: Dry chemical, carbon dioxide foam				
Flashpoint and Method:	11°C		Hazardous Combustion Products: Oxide of carbon				
Upper Flammable limit (%vol)			Lower Flammable Limit (% by volume) 2				
Explosion Data:	Sensitivity to Mech	Sensitivity to Static Discharge: N.Ap.					
SECTION V-REACTIVITY D	<u> ATA</u>						
Chemical Stability Yes/No:		Yes	If no under which conditions?		ns?	N.Ap.	
Incompatibility to Other Substances Yes/No:		Yes If so which ones? Strong oxidizing agents, Nitrofoam, Sulfuric ac					
Reactivity and under what con	Excessive heat, open flame, sprk, source of ignitions.						
Hazardous Decomposition Pro-	Oxides of carbon.						
N/E: not established		N/Ap.: Not a	pplicable			N/Av. : not available	

Material Name/Identifier:	Lock-De-Icer	Stock No.	610/612		PAGE 2				
SECTION VI-TOXICOLOGI	CAL PROPERTIES OF PRODUCT								
Route of Entry: ALL Routes	SKIN CONTACTSKIN ABSORPTION	EYE CONTACTINHA	LATIONIN	GESTION					
Effects of Acute Exposure:	Eye, Skin irritation. May cause headache, dizziness, nausea, drowsiness and central nervous system depression.								
Effects of Chronic Exposure:	Repeated or prolong exposure may irritate mucous membrane.								
LD 50 of Product:	N/E LC 50 of Product:				N/E				
Irritancy of Product:	N/E	Exposure Limits of Product:			N/E				
Sensitization of Product:	N/E	Toxicologically Synergistic		N/E					
CARCINOGENICITYRI	EPRODUCTIVE EFFECTSTERATOGENICITYMUTAGENICITY none known								
SECTION VII-PREVENTIVI Personal Protective Equipmer									
Gloves(specify):	Neoprene or Nitrile rubber	Eye(specify): Safety glasses		į					
Respiratory(specify):	Not required during normal use	Clothing: Not required							
Respiratory Protection:	If used indoors or on a continuous basis, use	of NIOSH approved respir	ator is recom	mended					
Engineering Controls:	Local or mechanical ventilation								
Leak and Spill Procedure: Use non-reactive absorbent material and non sparking tools to contain spills.									
	Incase of large spill use explosion proof and grounded equipments. Prevent from entering waterways.								
Waste Disposal:	Dispose of at an approved waste disposal facility. Or as per municipal or provincial regulation.								
Storage Requirements:	Keep in a cool well ventilated place. Keep away from heat, spark or flame. Soore at room temperature.								
Handling procedure:	Handle with care. Keep away from children. Do not inhale or ingest. Keep away fro excessive heat open flame, spark or source of ingition.								
DSL listing	All components are listed in the inventory.								
NPFA 30 B/CNFC3,3.5	Level 2								
TDG Classification:	Consumer Commodity								
WHMIS Classification:	Consumer Commodity Complies with CCCR								
SECTION VIII-FIRST AID N	MEASURES								
Eye:	Flush with water for at least 15 minutes. Seek mediacl attention immediately if irritation persist.								
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 if discomfort persist.								
Ingestion:	DO NOT INDUCE VOMITNG. Seek medical help								
SECTION IX-PREPARATIO	N DATE OF M.S.D.S.								
Additional Info/Comments:		Source used: Supplier's da	ıta						
Phone Number:	(905) 793-4311	Prepared By: Quality Co.	tory						
Date Prepared:	January 2, 2015 Kleen-Flo Tumbler Industries Limited								
THIS SHE	ET SUPERSEDES ANY OTHER M.S.D.S. PI	REVIOUSLY PREPARED							
N/Av.: not available	e N/Ap.: not applicale		N/E: not est	ablished					