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KLEEN-FLO TUMBLER INDUSTRIES LIMITED		MATERIAL SAFETY DATA SHEET		PAGE 1
SECTION I-MATERIAL IDENTIFICATION AND USE				
Material Name/Identifier:	Lock- De-Icer	Stock No.	615	
Manufacturer's Name:	Kleen-Flo Tumbler Industries Ltd	Street Address:	75 Advance Blvd.	
City:	Brampton	Province:	Ontario	
Postal Code:	L6T 4N1	Emergency Phone #:	(905) 793-4311	
Chemical Name:	N/A (mixture)	Chemical Family:	N/A	
Chemical Formula:	N/A (Mixture)	Trade Names & Synonyms:	None	
Material Use:	De-icer	Molecular Weight:	N/A (Mixture)	
SECTION II-HAZARDOUS INGREDIENTS OF MATERIAL				
Hazardous Ingredients	C.A.S.	Approximate Concentration	LD50 Species & Route	LC50 Species & Route
Isopropyl Alcohol	67-63-0	70-90%	>4720mg/kg rat-oral	12000ppm(8hr) rat-inh.
Naphthenic Oil	64742-34-3	5-15%	3000mg/kg rat-oral	N/Av.
SECTION III-PHYSICAL DATA FOR MATERIAL				
Physical State:	Liquid	Odour/Appearance:	Clear, pale,yellow liquid	
Specific Gravity:	0.8	Odour Threshold(p.p.m.):	N/E	
Boiling Point:	85°C	Evaporation Rate:	N/E	
Freezing Point:	>-40°C	Solubility in Water:	60% approx.	
% Volatile(by volume):	13-15%	Vapour Pressure(mm)Hg:	N/Av.	
Vapour Density(Air=1):	2	Coefficient of Water/Oil Distribut:	N/E	
pH	N/Av.			
SECTION IV-FIRE AND EXPLOSION HIAZARD OF MATERIAL				
Flammability Yes/No	Yes	If yes under which conditions?: Open flames and sparks		
Auto Ignition Temperature:	N/E	Means of Extinction: Dry chemical; Carbon dioixde, Foam		
Flashpoint and Method:	15°C	Hazardous Combustion Products: Carbon dioxide and Carbon monoxide		
Upper Flammable limit (%vol)	12	Lower Flammable Limit (% by volume):	2	
Explosion Data:	Sensitivity to Mechanical Impact: N/Av.	Sensitivity to Static Discharge:	N/Av.	
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; may react with aluminum.		
Reactivity and under what conditions?	No			
Hazardous Decomposition Products:	Sparks, open flames, all other ignition sources			
N/E: not established				
N.Ap.: Not applicable				
N/Av.: not available				

SECTION VI-TOXICOLOGICAL PROPERTIES OF PRODUCT

Route of Entry: ALL Routes	--SKIN CONTACT --SKIN ABSORPTION --EYE CONTACT --INHALATION --INGESTION		
Effects of Acute Exposure:	Moderately irritating to skin and eyes. May cause conjunctivitis (eyes). Inhalation of high concentration (vapours) can cause headache, nausea, vomiting, central nervous system depression.		
Effects of Chronic Exposure:	None known		
LD 50 of Product:	N/E	LC 50 of Product:	N/E
Irritancy of Product:	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

SECTION VII-PREVENTIVE MEASURES

Personal Protective Equipment to be used:

Gloves(specify):	Not required	Eye(specify):	Safety Glasses
Respiratory(specify):	Use in open space	Clothing:	Not required
Respiratory Protection:	If used indoors or on a continuous basis, use of cartridge type respirator is recommended		
Engineering Controls:	Not required		
Leak and Spill Procedure:	Avoid sparks, open flames and all other ignition sources. Wear adequate respiratory protection. Flush water to an open well-ventilated area. Absorb with absorbent material. Remove to a container.		
Waste Disposal:	Dispose of at approved disposal site.		
Storage Requirements:	Store at room temperature.		
Handling Procedures and Equipment:	None required for normal use.		
DSL Listing	All components are listed in the inventory.		
TDG Classification:	Consumer Commodity		
WHMIS Classification:	Consumer Commodity	Complies with CCCR 2001	

SECTION VIII-FIRST AID MEASURES

Eye:	Flush eyes with water for at least 15 minutes.
Skin:	Wash contaminated skin with mild soap and water. Wash contaminated clothing before re-use.
Inhalation:	Remove victim to fresh air and restore breathing if required.
Ingestion:	DO NOT INDUCE VOMITING. Guard against aspiration into lungs. Seek medical attention.

SECTION IX-PREPARATION DATE OF M.S.D.S.

Additional Info/Comments:		Sources Used: Supplier's data
Phone Number:	(905) 793-4311	Prepared By: Quality Control Laboratory
Date Prepared:	January 2, 2009	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