

## SECTION I-MATERIAL IDENTIFICATION AND USE

<b>Material Name/Identifier:</b>	<b>Lock- De-Icer</b>	<b>Stock No.</b>	<b>615</b>
<b>Manufacturer's Name:</b>	<b>Kleen-Flo Tumbler Industries Ltd</b>	<b>Street Address:</b>	<b>75 Advance Blvd.</b>
<b>City:</b>	<b>Brampton</b>	<b>Province:</b>	<b>Ontario</b>
<b>Postal Code:</b>	<b>L6T 4N1</b>	<b>Emergency Phone #:</b>	<b>(905) 793-4311</b>
<b>Chemical Name:</b>	<b>N/A (mixture)</b>	<b>Chemical Family:</b>	<b>N/A</b>
<b>Chemical Formula:</b>	<b>N/A (Mixture)</b>	<b>Trade Names &amp; Synonyms:</b>	<b>None</b>
<b>Material Use:</b>	<b>De-icer</b>	<b>Molecular Weight:</b>	<b>N/A (Mixture)</b>

## 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

<b>Physical State:</b>	Liquid	<b>Odour/Appearance:</b>	Clear, pale,yellow liquid
<b>Specific Gravity:</b>	0.8	<b>Odour Threshold(p.p.m.):</b>	N/E
<b>Boiling Point:</b>	85°C	<b>Evaporation Rate:</b>	N/E
<b>Freezing Point:</b>	>-40°C	<b>Solubility in Water:</b>	60% approx.
<b>% Volatile(by volume):</b>	13-15%	<b>Vapour Pressure(mm)Hg:</b>	N/Av.
<b>Vapour Density(Air=1):</b>	2	<b>Coefficient of Water/Oil Distribut:</b>	N/E
<b>pH</b>	N/Av.		

#### SECTION IV-FIRE AND EXPLOSION HAZARD OF MATERIAL

<b>Flammability</b> Yes/No	Yes	If yes under which conditions?:	Open flames and sparks
<b>Auto Ignition Temperature:</b>	N/E	<b>Means of Extinction:</b>	Dry chemical; Carbon dioxide, Foam
<b>Flashpoint and Method:</b>	15°C	<b>Hazardous Combustion Products:</b>	Carbon dioxide and
			Carbon monoxide
<b>Upper Flammable limit (%vol)</b>	12	<b>Lower Flammable Limit (% by volume):</b>	2
<b>Explosion Data:</b>	<b>Sensitivity to Mechanical Impact:</b> N/Av.	<b>Sensitivity to Static Discharge:</b>	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