

**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 #:	CANUTEC:- 613-996-6666 (24HR)
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	60-100%	5045 mg/kg rat-oral	16000 ppm (4hr) rat-inh.
Naphthenic Oil	64742-53-6	7-13%	5000mg/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:	82°C	Evaporation Rate:	N/E
Freezing Point:	N/E	Solubility in Water:	Partly Soluble
% Volatile(by volume):	N/E	Vapour Pressure(mm)Hg:	N/Av.
Vapour Density(Air=1):	>1	Coefficient of Water/Oil Distribut:	N/E
pH	N/Av.		

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

Flammability Yes/No	Yes	If yes under which conditions?:	Open flames and sparks, heat
Auto Ignition Temperature:	N/E	Means of Extinction:	Dry chemical; Carbon dioxide, Foam
Flashpoint and Method:	15°C TCC	Hazardous Combustion Products:	Carbon dioxide and Carbon monoxide
Upper Flammable limit (%vol)	12	Lower Flammable Limit (% by volume):	1
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 alumin
Reactivity and under what conditions?	Normally stable, but can become unstable at elevated temperatures & pressure		
Hazardous Decomposition Products:	Carbon monoxide, carbon dioxide produced upon combustion.		

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:	Eye, Skin irritation. May cause headache, dizziness, nausea, drowsiness and 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, skin irritant	Exposure Limits of Product: IPA 400 ppm STEL (ACGIH)	
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):	Nitrile, Viton, Chemical resistant gloves	Eye(specify):	Safety Glasses
Respiratory(specify):	Not required during normal use	Clothing:	Not required
Respiratory Protection:	If used indoors or on a continuous basis, use of NIOSH approved cartridge type respirator is recommended		
Engineering Controls:	Local ventilation		
Leak and Spill Procedure:	Use non-reactive absorbent material and non sparking tools to contain spills. Incise of large spill use explosion proof and grounded equipments.		
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		
Handling Procedures and Equipment:	Handle with care. Keep away from children. Do not inhale or ingest.		
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 with water for at least 15 minutes. Seek medical attention immediately if irritation persists.
Skin:	Remove contaminated clothing. Wash with soap and water. See doctor if irritation persists.
Inhalation:	Move patient to fresh air and restore breathing if required. Call a physician if discomfort persists.
Ingestion:	DO NOT INDUCE VOMITING. Seek medical help immediately.

**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, 2012	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