

SECTION I-MATERIAL IDENTIFICATION AND USE

Material Name/Identifier:	Cooling System Sealer & Conditioner	Stock No.	711
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.Ap. (Mixture)	Chemical Family:	N/Av. (mixture)
Chemical Formula:	N.Ap. (Mixture)	Trade Names & Synonyms:	None
Material Use:	Radiator coolant lubricant & sealer	Molecular Weight:	N/Av. (mixture)

SECTION II-HAZARDOUS INGREDIENTS OF MATERIAL

Hazardous Ingredients	C.A.S.	Approximate Concentration	LD50 Species & Route	LC50 Species & Route
Soluble Naphthenic Oil	64742-52-5	60-100%	>5000 mg/kg rat-oral	N/Av.
Carboxymethylcellulose	9004-32-4	0.1 - 1%	>2500 mg/kg rat-oral	N/Av.
Alcohol Ethoxylated	68439-46-3	0.1 - 1 %	>2000 mg/kg rat-oral	N/Av.

SECTION III-PHYSICAL DATA FOR MATERIAL

Physical State:	Liquid	Odour/Appearance:	mineral oil odour/ greenish liquid
Specific Gravity:	0.93	Odour Threshold(p.p.m.):	N/Av.
Boiling Point:	> 105°C	Evaporation Rate:	N/Av.
Freezing Point:	N/Av.	Solubility in Water:	emulsifiable
% Volatile(by volume):	N/Av.	Vapour Pressure(mm)Hg:	N/Av.
Vapour Density(Air=1):	N/Av.	Coefficient of Water/Oil Distribut:	N/E
pH	7 - 9		

SECTION IV-FIRE AND EXPLOSION HAZARD OF MATERIAL

Flammability Yes/No	No	If yes under which conditions?:	N.Ap.
Auto Ignition Temperature:	None	Means of Extinction:	Foam, carbon dioxide, dry chemicals, water mist
Flashpoint and Method:	None	Hazardous Combustion Products:	Carbon dioxide, Carbon monoxide
			Hydrocarbon fumes, smoke.
Upper Flammable limit (%vol)	N/E	Lower Flammable Limit(% by volume):	N/E
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?	N.Ap.
Incompatibility to Other Substances Yes/No:	Yes	If so which ones?	Inorganic acids and alkies & peroxides.
Reactivity and under what conditions?	None known		
Hazardous Decomposition Products:	Carbon dioxide, carbon monoxide, hydrocarbon fumes, smoke		

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:	Skin, eye irritation, inhalation may casue lung, nose, throat irritation, ingestion may cause laxative effect and low toxicity effect.		
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:	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):	Nitrile, Neoprene, or chemical resistant gloves	Eye(specify):	Safety Glasses
Respiratory(specify):	mask, if ventilation is not adequate	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 and mechanical ventilation		
Leak and Spill Procedure:	Use inert absorbent material, prevent from entering waterways.		
Waste Disposal:	Standard methods as approved in your area by local or provincial government regulation.		
Storage Requirements:	Store at room temperature. Keep container closed when not in use.		
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:	Not regulated		
WHMIS Classification:	Non-controlled		

SECTION VIII-FIRST AID MEASURES

Eye:	Rinse thoroughly with water for 15 minutes. Consult physician immediately if irritation persist..
Skin:	Remove contaminated clothing. Rinse with soapy water 5 - 10 minutes. See doctor if discomfort persist.
Inhalation:	Remove patient from further exposure. Give fresh air. Seek medical help if discomfort persist.
Ingestion:	DO NOT INDUCE VOMITING. Seek medical help immediately.

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

Additional Info/Comments:		Source Used: Supplier's data
Phone Number:	(905) 793-4311	Prepared By: Quality Control Laboratory
Date Prepared:	January 16, 2012.	Kleen-Flo Tumbler Industries Limited

THIS SHEET SUPERSEDES ANY OTHER M.S.D.S. PREVIOUSLY PREPARED