

KLEEN-FLO TUMBLER INDUSTRIES LIMITED		MATERIAL SAFETY DATA SHEET		PAGE 1
SECTION I-MATERIAL IDENTIFICATION AND USE				
Material Name/Identifier:	Radiator Flush (Water base)	Stock No.	713	
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/A (mixture)	
Chemical Formula:	N.Ap. (Mixture)	Trade Names & Synonyms:	None	
Material Use:	Radiator coolant lubricant & sealer	Molecular Weight:	N/Av. (Blend)	
SECTION II-HAZARDOUS INGREDIENTS OF MATERIAL				
Hazardous Ingredients	C.A.S.	Approximate Conc.%wt.	LD50 Species & Route	LC50 Species & Route
Sodium carbonate	497-19-8	1 - 5%	4090 mg/Kg rat-0ral	2300 mg/m3 rat Inhl.
Sodium Xylene sulphonate	1300-72-7	0.1 - 1.0	4000 mg/Kg rat-oral	N/Av.
Alcohol Ethoxylated	68439-46-3	1 -5%	>2000 mg/kg rat-oral	N/Av.
Sodium tetraborate	1330-43-4	1 - 5%	2660mg/Kg rat-oral	N/Av.
SECTION III-PHYSICAL DATA FOR MATERIAL				
Physical State:	Liquid	Odour/Appearance:	little odour/ bright fluorescent yellow	
Specific Gravity:	1.07	Odour Threshold(p.p.m.):	N/Av.	
Boiling Point:	> 100°C	Evaporation Rate:	N/Av.	
Freezing Point:	N/Av.	Solubility in Water:	miscible	
% 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	9-10			
SECTION IV-FIRE AND EXPLOSION HAZARD OF MATERIAL				
Flammability Yes/No	No	If yes under which conditions?:		
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		
		Aldehydes, sulfur dioxide.		
Upper Flammable limit (%vol)	None	Lower Flammable Limit(% by volume):	None	
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?	Strong oxidizing agents	
Reactivity and under what conditions?	Heat, flame, ignition sources			
Hazardous Decomposition Products:	Carbon doioxide, carbon monoxide, aldehydes, sulfur dioxide.			
N/E: not established	N.Ap.: not applicable		N/Av.: not available	

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SECTION VI-TOXICOLOGICAL PROPERTIES OF PRODUCT					
Route of Entry: ALL Routes	--SKIN CONTACT --SKIN ABSORPTION --EYE CONTACT --INHALATION --INGESTION				
Effects of Acute Exposure:	Prolonged or repeated contact may cause skin redness eye irritation.				
	Inhalation of mist of ingestion may cause coughing headache or dizziness.				
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):	Rubber, Nitrile	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 inert absorbants				
Waste Disposal:	Standard methods as approved in your area.				
Storage Requirements:	Store at room temperature. Keep container closed when not in use.				
Handling Procedures and	Do not freez. Do not inhale or ingest. Avoid contact with skin, eyes. Keep away from children.				
Equipment:					
DSL listing	All components are listed in the inventory.				
TDG Classification:	non regulated.				
WHMIS Classification:	non regulated.				
SECTION VIII-FIRST AID MEASURES					
Eye:	Rinse thoroughly with water for 15 minutes. Consult a physician immedaiteily if irritation persist.				
Skin:	Remove contaminated clothing. Rinse with soapy water 5 - 10 minutes. See doctor if irritation persist.				
Inhalation:	Remove to fresh air. Restore breathing if required. See doctor 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:	Janaury 2, 2015.	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	