

**SECTION I-MATERIAL IDENTIFICATION AND USE**

Material Name/Identifier:	ACE Methyl Hydrate	Stock No.	984/985/986/989
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:	Methanol	Chemical Family:	Alcohol
Chemical Formula:	CH3OH	Trade Names & Synonyms:	Methyl Dydrate
Material Use:	Gasoline Antifreeze	Molecular Weight:	32.04

**SECTION II-HAZARDOUS INGREDIENTS OF MATERIAL**

Hazardous Ingredients	C.A.S.	Approximate Conc. %wt.	LD50 Species & Route	LC50 Species & Route
Methanol	67-56-1	60 - 100	5.6 g/kg rat-oral 15.8 g/kg rabbit-dermal	64,000 ppm (4hr) rat-inh.

**SECTION III-PHYSICAL DATA FOR MATERIAL**

Physical State:	Liquid	Odour/Appearance:	Alcohol odour/Clear and colourless
Specific Gravity:	0.79	Odour Threshold(p.p.m.):	1000 ppm
Boiling Point:	64.5°C	Evaporation Rate:	(Butyl acetate=1) >2.0
Freezing Point:	-97.8°C	Solubility in Water:	100%
% Volatile(by volume):	100%	Vapour Pressure(mm)Hg:	160mm @ 30°C
Vapour Density(Air=1):	1.1	Coefficient of Water/Oil Distribut:	Readily soluble in water, separates from oil
pH	N/Ap		

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

Flammability Yes/No	Yes	If yes under which conditions?:	Excessive heat,sparks & open flames
Auto Ignition Temperature	470°C	Means of Extinction:	Dry Chemical, Carbon dioxide, alcohol foam & water spray
		Hazardous Combustion Products:	fumes, smoke, oxides of carbon, formaldehyde
Flashpoint and Method:	11 oC, Tag CC		
Upper Flammable limit, %vol.	36.5	Lower Flammable Limit(% by volume):	6.0
Explosion Data:	Sensitivity to mechanical impact: Yes	Sensitivity to Static Discharge:	Yes

**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 acids, bases and oxidizing agents
Reactivity and under what conditions?	No	
Hazardous Decomposition Products:	Carbon monoxide, carbon dioxide on burning.	

N/E: not established N.Ap.: not applicable N/A: not available

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**SECTION VI-TOXICOLOGICAL PROPERTIES OF PRODUCT**

Routes of Entry: ALL Routes	--SKIN CONTACT --SKIN ABSORPTION --EYE CONTACT --INHALATION --INGESTION		
Effects of Acute Exposure:	Moderate dosage may cause severe headache, nausea, vomiting, dizziness and depression of the central nervous system. Vision may fail temporarily or permanently after 2 - 6 days.		
Effects of Chronic Exposure:	May cause visual impairment and progresses to contraction of visual fields and sometimes complete blindness. Fatal internal dosage is 60 - 250 ml.		
LD 50 of product:	See Section II	LC 50 of Product:	See Section II
Irritancy of Product:	Eye irritant	Exposure Limits:TWA-200 ppm, skin (ACGIH)	

Sensitization of Product:	N/A	Toxicologically Synergistic Materials:	N/A
--CARCINOGENICITY --REPRODUCTIVE EFFECTS --TERATOGENICITY --MUTAGENICITY			None known
<b>SECTION VII-PREVENTIVE MEASURES</b>			
Personal Protective Equipment to be used:			
Gloves(specify):	Impervious (neoprene)	Eye(specify):	safety goggles.
Respiratory(specify):	NOISH approved respirator.	Clothing:	not required
Respiratory Protection:	If used indoors or on a continuous basis, use of cartridge type respirator is recommended		
Engineering Controls:	Local and mechanical ventilation is recommended. mmended to maintain an exposure limit of 200 ppm.		
Leak and Spill Procedure:	Use industrial inert material to absorb and collect. For large spill, dike area to prevent spreading.		
	collect and contain for disposal by local waste disposal firms.		
Waste Disposal:	Chemical incinerator.		
Storage Requirements:	Keep away from sparks or open flames. Store in cold places.		
Handling Procedures and			
Equipment:	Use of spark-resistant tools and equipment recommended. Avoid inhalation of excessive vapour.		
DSL listing	Methanol is listed in the inventory.		
TDG Classification:	984 - Limited Quantity, 985/986/989 - Methanol, Class 3 (6.1), UN 1230 ,P/G II		
WHMIS Classification:	984 Consumer Commodity, 985/986/989 - B2, D1A, D2B	#984: Complies with CCCR 2001.	
<b>SECTION VIII-FIRST AID MEASURES</b>			
Eye:	Wash with water for at least 15 minutes. If irritation persists, seek medical help.		
Skin:	Wash with soap and water		
Inhalation:	Remove patient from further exposure. Restore breathing if required. Seek medical attention.		
Ingestion:	DO NOT INDUCE VOMITING. Get medical help immediately.		
<b>SECTION IX-PREPARATION DATE OF M.S.D.S.</b>			
Additional Info/Comments:		Sources Used: Canada Colors & Chemical Ltd. data sheet	
Phone Number:	(905) 793-4311	Prepared By: Quality Control Laboratory	
Date:	January 18,2006.	Kleen-Flo Tumbler Industries Limited	
<b>THIS SHEET SUPERSEDES ANY OTHER M.S.D.S. PREVIOUSLY PREPARED</b>			
N/A: not available		N/E: not established	