

**SECTION I-MATERIAL IDENTIFICATION AND USE**

Material Name/Identifier:	Original Gas Line Anti-Freeze	Stock No.	426
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:	Methanol	Chemical Family:	Alcohol
Chemical Formula:	CH3OH	Trade Names & Synonyms:	None
Material Use:	Gas line Anti-Freeze	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	5628 mg/kg rat-oral	64000 ppm rat/4hrs , inhl..

**SECTION III-PHYSICAL DATA FOR MATERIAL**

Physical State:	Liquid	Odour/Appearance:	Alcohol odour, clear, colourless liquid
Specific Gravity:	0.792@ 20°C	Odour Threshold:	N/Av.
Boiling Point:	64.5°C	Evaporation Rate:	4.1
Freezing Point:	-97.8°C	Solubility in Water:	Soluble
% Volatile(by volume):	100%	Vapour Pressure(mm)Hg:	96 at 15°C
Vapour Density(Air=1):	1.105 @ 15°C	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:	Can be ignited under almost all normal temp. conditions
Auto Ignition Temperature:	385°C	Means of Extinguishing:	Carbondioxide, Dry chemical media for small fire.
Flashpoint and Method:	11.5°C TCC	Water spray in a fog form, Alcohol resistant foam for large fire.	
		Hazardous Combustion Products:	Fumes, smoke, carbon monoxide. Formaldehyde.
Upper Flammable limit(%vo),	36.5	Lower Flammable Limit(% by volume):	6
Explosion Data:	Sensitivity of mechanical impact: Yes	Sensitivity to Static Discharge:	Yes, use grounded equipment

**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 acids, strong bases and strong oxidizers.
Reactivity and under what conditions?	May react with metallic aluminum or magnisium and generate hydrogen gas.		
Hazardous Decomposition Products:	Carbon monoxide, carbon dioxide, formaldehyde on burning.		

N/E: not established

N.Ap.: not applicable

N/Av.: not available

**SECTION VI-TOXICOLOGICAL PROPERTIES OF PRODUCT**

<b>Route of Entry: ALL Routes</b>	--SKIN CONTACT --SKIN ABSORPTION --EYE CONTACT --INHALATION --INGESTION		
<b>Effects of Acute Exposure:</b>	Cause skin & eye irritation, ingestion may cause headaches, dizziness, nausea, vomiting, and depression of the central nervous system. May cause vision disturbance or blindness.		
<b>Effects of Chronic Exposure:</b>	May cause visual impairment and progress to contraction of visual fields and sometimes complete blindness. The fatal internal dose is 60 - 250 ml.		
<b>Irritancy of Product:</b>	Skin and Eye irritant	<b>Exposure Limits of Product:</b>	200 ppm (ACGIH) (Skin)
<b>Sensitization of Product:</b>	N/E	<b>Toxicologically Synergistic Materials:</b>	N/E
<b>--CARCINOGENICITY --REPRODUCTIVE EFFECTS --TERATOGENICITY --MUTAGENICITY</b>			none known

**SECTION VII-PREVENTIVE MEASURES**

**Personal Protective Equipment to be used:**

<b>Gloves(specify):</b>	Butyl Rubber, Nitrile, Chemical resistant gloves	<b>Eye(specify):</b>	safety goggles
<b>Respiratory(specify):</b>	not required in normal use.	<b>Clothing:</b>	not required in normal use
<b>Respiratory Protection:</b>	If used indoors or on a continuous basis, use of NIOSH approved cartridge type respirator is recommended		
<b>Engineering Controls:</b>	Local or mechanical ventilation is recommended.		
<b>Leak and Spill Procedure:</b>	Remove all sources of ignition. Use non sparking, explosion proof equipment. Use non reactive absorbent, Contain liquid, dispose waste material at an approved hazardous waste disposal facility in accordance with local, provincial and federal regulation.		
<b>Waste Disposal:</b>	Dispose of at an approved waste disposal facility.		
<b>Storage Requirements:</b>	Keep away from open flames or sparks. Store in a cool place where temperature below 40 °C.		
<b>Handling Procedures and</b>	Keep away from children. Do not inhale or ingest.		
<b>Equipment:</b>	Use of spark resistant tools and equipment is recommended.		
<b>TDG Classification:</b>	Consumer Commodity		
<b>WHMIS Classification:</b>	Consumer commodity	Complies with CCCR 2001.	

**SECTION VIII-FIRST AID MEASURES**

<b>Eye:</b>	Flush with fresh water for at least 15 minutes. Seek immediate medical attention immediately.
<b>Skin:</b>	Wash with soap and water see doctor if irritation persist.
<b>Inhalation:</b>	Move patient to fresh air and restore breathing if required. Call a physician immediately if discomfort persist.
<b>Ingestion:</b>	DO NOT INDUCE VOMITING. Seek medical attention immediately.

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

<b>Additional Info/Comments:</b>		<b>Sources Used:</b> Supplier's data
<b>Phone Number:</b>	(905) 793-4311	<b>Prepared By:</b> Quality Control Laboratory
<b>Date Prepared:</b>	January 2, 2012.	Kleen-Flo Tumbler Industries Limited

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