

SECTION I-MATERIAL IDENTIFICATION AND USE

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|---------------------------|----------------------------------|-------------------------|------------------|
| 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 #: | (905) 793-4311 |
| 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 | 6.2-13.0 g/kg rat-oral | 64000 ppm rat/4hrs , inhl., |

SECTION III-PHYSICAL DATA FOR MATERIAL

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|------------------------|----------------|-------------------------------------|---|
| Physical State: | Liquid | Odour/Appearance: | Alcohol odour, clear, colourless liquid |
| Specific Gravity: | 0.792@ 20/20°C | Odour Threshold(p.p.m.): | 2000 ppm |
| Boiling Point: | 64.5°C | Evaporation Rate: | 2.1 |
| 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

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| Flammability Yes/No | Yes | If yes under which conditions: | Can be ignited under almost all normal temp. conditions |
| Auto Ignition Temperature: | 470°C | Means of Extinction: | Alcohol foam, polymer foam for large fires. |
| Flashpoint and Method: | 11.5°C TCC | | Carbon dioxide or dry chemical for small fires. |
| | | | Hazardous Combustion Products: Fumes, smoke, carbon monoxide. Formaldehyde. |
| Upper Flammable Limit(%vol) | 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 & stroes and strong oxidizers. |
| Reactivity and under what conditions? | none known | | |
| Hazardous Decomposition Products: | Carbon monoxide, carbon dioxide, formaldehyde on burning. | | |

N/E: not established

N.Ap.: not applicable

N/A: not available

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|---------------------------|-------------------------------|-----------|-----|--------|
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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: | Moderate dosage may cause severe headaches, dizziness, nausea, vomiting, 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 progress to contraction of visual fields and sometimes complete blindness. The fatal internal dose is 60 - 250 ml. |
| Irritancy of Product: | none Exposure Limits of Product: 200 ppm (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:

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| Gloves(specify): | Rubber | Eye(specify): | safety goggles |
| Respiratory(specify): | not required due to small quantity. | Clothing: | not required |
| Respiratory Protection: | If used indoors or on a continuous basis, use of cartridge type respirator is recommended | | |
| Engineering Controls: | Local mechanical ventilation is recommended. | | |
| Leak and Spill Procedure: | Remove all sources of ignition. Flush with large amounts of water. For large spills, dump to salvage tanks of incinerator. | | |
| Waste Disposal: | Chemical incinerator. | | |
| Storage Requirements: | Keep away from open flames or sparks. Store in a cool place. | | |
| Handling Procedures and | | | |
| Equipment: | Use of spark resistant tools and equipment is recommended. | | |
| TDG Classification: | Consumer Commodity | | |
| WHMIS Classification: | Consumer commodity | Complies with CCCR 2001. | |

SECTION VIII-FIRST AID MEASURES

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| Eye: | Flush with fresh water for at least 15 minutes. Seek immediate medical attention |
| Skin: | Wash with soap and water. |
| Inhalation: | Move patient to fresh air and restore breathing if required. Call a physician |
| Ingestion: | INDUCE VOMITING. Then give two (2) tablespoons of baking soda in a glass of water. Call a physician immediately. |

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

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|---------------------------|------------------|---|
| Additional Info/Comments: | | Sources Used: Harrisons & Crosfield (Canada) Data Sheet |
| Phone Number: | (905) 793-4311 | Prepared By: Quality Control Laboratory |
| Date: | January 9, 2006. | Kleen-Flo Tumbler Industries Limited |

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

N/A: not available

N.Ap.: not applicable

N/E: not established