

SECTION I-MATERIAL IDENTIFICATION AND USE

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|----------------------------------|---------------------------------------|------------------------------------|-------------------------------|
| Material Name/Identifier: | Non-Chlorinated Brake & Parts Cleaner | Stock No. | 322/323/324 |
| 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/Ap. (mixture) |
| Chemical Formula: | N/Ap. (mixture) | Trade Names & Synonyms: | nil |
| Material Use: | Cleaner | Molecular Weight: | N/Ap. (mixture) |

SECTION II-HAZARDOUS INGREDIENTS OF MATERIAL

| Hazardous Ingredients | C.A.S. | Approximate Concentration | LD50 Species & Route | LC50 Species & Route |
|-----------------------|----------|---------------------------|-------------------------|----------------------|
| Heptane | 142-82-5 | 40 - 70 % | 15000 mg/kg rat-oral | 103g/m3 rat-inh. |
| 2-propanol | 67-63-0 | 40 - 70 % | 4420-5840mg/kg rat-oral | 22627 ppm rat-inh |

SECTION III-PHYSICAL DATA FOR MATERIAL

| | | | |
|-------------------------------|--------|--|---|
| Physical State: | Liquid | Odour/Appearance: | Clear liquid with aliphatic hydrocarbon odor. |
| Specific Gravity: | 0.76 | Odour Threshold(p.p.m.): | N/E |
| Boiling Point: | 113°C | Evaporation Rate: | N/E |
| Freezing Point: | N/Av. | Solubility in Water: | Partial |
| % Volatile(by volume): | 100% | Vapour Pressure(mm)Hg: | N/E |
| Vapour Density(Air=1): | > 1 | Coefficient of Water/Oil Distribut: | N/Av. |
| pH | N/Ap. | | |

SECTION IV-FIRE AND EXPLOSION HAZARD OF MATERIAL

| | | | |
|--------------------------------------|--|--|--|
| Flammability Yes/No | Yes | If yes under which conditions: | open flame or spark |
| Auto Ignition Temperature: | N/E | Means of Extinction: | water spray, dry chemical, carbon dioxide foam |
| Flashpoint and Method: | < - 4°C TCC | Hazardous Combustion Products: | Carbon dioxide carbon monoxide and various hydrocarbons |
| Upper Flammable limit (% vol) | 6 | Lower Flammable Limit(% by volume): | 1 |
| Explosion Data: | Sensitivity to Mechanical Impact : Yes | Sensitivity to Static Discharge: | Use grounded equipment |

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 oxidizing agents, strong acids |
| Reactivity and under what conditions? | none known | | |
| Hazardous Decomposition Products: | black smoke, carbon monoxide, carbon dioxide and oxides of hydrocarbons | | |

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: | May cause headache, nausea, vomiting and weakness. | | |
| | Inhalation of solvents may cause irritation. Eye contact may cause mild irritation. | | |
| Effects of Chronic Exposure: | Solvents may cause defatting dermatitis. | | |
| Irritancy of Product: | Skin and eyes | Exposure Limits of Product: | N/Av. |
| Sensitization of Product: | N/E | Toxicologically Synergistic Materials: | N/Av. |
| --CARCINOGENICITY --REPRODUCTIVE EFFECTS --TERATOGENICITY --MUTAGENICITY | | | None Known |
| SECTION VII-PREVENTIVE MEASURES | | | |
| Personal Protective Equipment to be used: | | | |
| Gloves(specify): | Nitril, Neoprene, Chemical resistant | Eye(specify): | safety goggles |
| Respiratory(specify): | organic vapour mask | Clothing: | Not required |
| Respiratory Protection: | If used indoors or on a continuous basis, use of cartridge type NIOSH approved respirator is recommended | | |
| Engineering Controls: | Local or mechanical ventilation required. | | |
| Leak and Spill Procedure: | Use non-reactive absorbent material and non sparking tools to contain spills. | | |
| Waste Disposal: | Use approved waste disposal service. Follow local or federal regulation. | | |
| Storage Requirements: | Keep container closed. Store in a cool well ventilated place. Keep away from heat, spark and ignition sources. | | |
| DSL listing | All components are listed. | | |
| Handling Procedures and Equipment: | Do not spray on hot surfaces. It may auto-ignite. Do not handle or store near openflame, heat or source of ignition | | |
| Equipment: | Avoid skin contact and prolonged inhalation. | | |
| TDG Classification: | Flammable Liquids n.o.s (Petroleum Distillate/Isopropanol),UN1993, Class 3, Pg. II | | |
| WHMIS Classification: | B2, D2A & D2B | | |
| SECTION VIII-FIRST AID MEASURES | | | |
| Eye: | Flush immediately with fresh water for at least 15 minutes. If discomfort persists see a physician immediately. | | |
| Skin: | Remove contaminated clothing. Wash with soap and water. If rash persists contact a physician. | | |
| Inhalation: | Move patient to fresh air and restore breathing if required. If discomfort persist see a doctor. | | |
| Ingestion: | DO NOT INDUCE VOMITNG. Rinse mouth with water then drink one (1) glass of water. Seek immediate medical assistance. | | |
| SECTION IX-PREPARATION DATE OF M.S.D.S. | | | |
| Additional Info/Comments: | | Sources Used: Supplier's data Data | |
| Phone Number: | (905) 793-4311 | Prepared By: Quality Control Laboratory | |
| Date Prepared: | January 2, 2012. | Kleen-Flo Tumbler Industries Limited | |
| THIS SHEET SUPERSEDES ANY OTHER M.S.D.S. PREVIOUSLY PREPARED | | | |
| N/Av.: not available | | N/Av.: not applicable | |
| N/E: not established | | | |