

SECTION I-MATERIAL IDENTIFICATION AND USE

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|---------------------------|-------------------------------------|-------------------------|-------------------------------|
| 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 | | Approximate | LD50 | LC50 |
|--------------------------|------------|-------------|----------------------|----------------------|
| Ingredients | C.A.S. | Conc.%wt. | Species & Route | 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 |

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 freeze. 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

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|-------------|--|
| Eye: | Rinse thoroughly with water for 15 minutes. Consult a physician immediately 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.

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|---|------------------------------|
| Additional Info/Comments: | Source used: Supplier's data |
| Phone Number: | (905) 793-4311 |
| Date Prepared: | January 16, 2012. |
| Prepared By: Quality Control Laboratory Kleen-Flo Tumbler Industries Limited | |

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