

**SECTION I-MATERIAL IDENTIFICATION AND USE**

|                           |                                  |                         |                               |
|---------------------------|----------------------------------|-------------------------|-------------------------------|
| Material Name/Identifier: | Multi-Kleen                      | Stock No.               | 174                           |
| 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: | Multi-Kleen                   |
| Material Use:             | Liquid 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   |
|--------------------------|------------|---------------------------|----------------------|------------------------|
| sodium metasilicates     | 6834-92-0  | 0.1 - 0.5%                | 0.8 g/kg rat-oral    | N/Av.                  |
| 2-butoxyethanol          | 111-76-2   | 1-5%                      | 1746 mg/kg rat-oral  | 450 ppm (4hr) rat-inh. |
| Alcohol Ethoxylated      | 68439-46-3 | 1-5%                      | >2000 mg/kg rat-oral | N/Av.                  |
| sodium tripolyphosphates | 7758-29-4  | 0.1 - 1%                  | 3100 mg/kg rat-oral  | N/Av.                  |

**SECTION III-PHYSICAL DATA FOR MATERIAL**

|                        |        |                                     |                                   |
|------------------------|--------|-------------------------------------|-----------------------------------|
| Physical State:        | liquid | Odour/Appearance:                   | mild odour/slight hazy, colorless |
| Specific Gravity:      | 1      | Odour Threshold(p.p.m.):            | N/E                               |
| Boiling Point:         | N/E    | Evaporation Rate:                   | N/E                               |
| Freezing Point:        | 0°C    | Solubility in Water:                | Soluble                           |
| % Volatile(by volume): | N/E    | Vapour Pressure(mm)Hg:              | N/Av.                             |
| Vapour Density(Air=1): | N/Av.  | Coefficient of Water/Oil Distribut: | N/E                               |
| pH                     | 9-10.5 |                                     |                                   |

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

|                               |   |                                     |                                  |
|-------------------------------|---|-------------------------------------|----------------------------------|
| Flammability Yes/No           | No                                      | If yes under which conditions:      | N.Ap.                            |
| Auto Ignition Temperature:    | N/Av.                                   | Means of Extinction:                | carbon dioxide foam, water spray |
| Flashpoint and Method:        | None                                    | Hazardous Combustion Products:      | None known                       |
| Upper Flammable limit (% vol) | N.Ap.                                   | Lower Flammable Limit(% by volume): | N/A                              |
| Explosion Data:               | Sensitivity to Mechanical Impact: N.Ap. | Sensitivity to Static Discharge:    | N.Ap.                            |

**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, strong acid |
| Reactivity and under what conditions?       | None known |                               |                                      |
| Hazardous Decomposition Products:           | None known |                               |                                      |

N/E: not established

N.Ap.: not applicable

N/Av.: not available

**SECTION VI-TOXICOLOGICAL PROPERTIES OF PRODUCT**

|   |   |   |            |
|---|---|---|------------|
| <b>Route of Entry:</b>  | -x-SKIN CONTACT -x-SKIN ABSORPTION -x-EYE CONTACT --INHALATION -x-INGESTION |   |            |
| <b>Effects of Acute Exposure:</b>   | Prolonged or repeated contact may cause skin redness eye irritation.        |   |            |
|   | Avoid inhalation of mist which may cause coughing headache or dizziness.    |   |            |
| <b>Effects of Chronic Exposure:</b>   | None known  |   |            |
| <b>LD 50 of Product:</b>  | N/A   | <b>LC 50 of Product:</b>                      | N/A        |
| <b>Irritancy of Product:</b>  | Eye and skin irritant on contact  | <b>Exposure Limits of Product:</b>            | N/E        |
| <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>                   | not required under normal use  | <b>Eye(specify):</b> | not required under normal use |
| <b>Respiratory(specify):</b>              | not required under normal use  | <b>Clothing:</b>     | not required under 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>              | not required under normal use conditions.  |                      |                               |
| <b>Leak and Spill Procedure:</b>          | Mop up   |                      |                               |
| <b>Waste Disposal:</b>                    | Dispose of through sewer system.   |                      |                               |
| <b>Storage Requirements:</b>              | Do not freeze.   |                      |                               |
| <b>Handling Procedures and Equipment:</b> | No special procedure required.   |                      |                               |
| <b>DSL listing</b>                        | All components are listed.   |                      |                               |
| <b>TDG Classification:</b>                | Not regulated  |                      |                               |
| <b>WHMIS Classification:</b>              | Not controlled   |                      |                               |

**SECTION VIII-FIRST AID MEASURES**

|                    |  |
|--------------------|--|
| <b>Eye:</b>        | Wash with water for at least 15 minutes. Seek medical attention if irritation persists.                |
| <b>Skin:</b>       | Wash with soap and water.  |
| <b>Inhalation:</b> | Remove to fresh air, if breathing is difficult and irritation persist, contact physicaian immediately. |
| <b>Ingestion:</b>  | Do not induce vomiting. Give water to dilute and contact doctor 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. | <b>Kleen-Flo Tumbler Industries Limited</b>    |

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

N/A: not available

N.Ap.: not applicable

N/E: not established