

## SECTION I-MATERIAL IDENTIFICATION AND USE

|                                  |                                         |                                    |                                      |
|----------------------------------|-----------------------------------------|------------------------------------|--------------------------------------|
| <b>Material Name/Identifier:</b> | <b>Transmission Flush</b>               | <b>Stock No.</b>                   | <b>689-1</b>                         |
| <b>Manufacturer's Name:</b>      | <b>Kleen-Flo Tumbler Industries Ltd</b> | <b>Street Address:</b>             | <b>75 Advance Blvd.</b>              |
| <b>City:</b>                     | <b>Brampton</b>                         | <b>Province:</b>                   | <b>Ontario</b>                       |
| <b>Postal Code:</b>              | <b>L6T 4N1</b>                          | <b>Emergency Phone #:</b>          | <b>(905) 793-4311</b>                |
| <b>Chemical Name:</b>            | <b>N/A (Blended product)</b>            | <b>Chemical Family:</b>            | <b>CANUTEC:- 613-996-6666 (24HR)</b> |
| <b>Chemical Formula:</b>         | <b>N/A (Blended product)</b>            | <b>Trade Names &amp; Synonyms:</b> | <b>None</b>                          |
| <b>Material Use:</b>             | <b>Cleaner</b>                          | <b>Molecular Weight:</b>           | <b>N/A (Mixture)</b>                 |

## SECTION II-HAZARDOUS INGREDIENTS OF MATERIAL

| Hazardous<br>Ingredients   | C.A.S.     | Approximate<br>Concentration | LD50<br>Species & Route | LC50<br>Species & Route |
|----------------------------|------------|------------------------------|-------------------------|-------------------------|
| Hydrotreated parafinic Oil | 64742-58-1 | 60-100 %                     | > 2000mg/kg-rat         | N/Av.                   |
| Orthodichlorobenzene       | 95-50-1    | 1-5 %                        | 500 mg/kg rat-oral      | N/Av.                   |

### SECTION III-PHYSICAL DATA FOR MATERIAL

|                               |             |                                            |                            |
|-------------------------------|-------------|--------------------------------------------|----------------------------|
| <b>Physical State:</b>        | liquid      | <b>Odour/Appearance:</b>                   | faint sweet odour/ red oil |
| <b>Specific Gravity:</b>      | 0.85 @ 22°C | <b>Odour Threshold(p.p.m.):</b>            | N/E                        |
| <b>Boiling Point:</b>         | > 129°C     | <b>Evaporation Rate:</b>                   | N/E                        |
| <b>Freezing Point:</b>        | N/E         | <b>Solubility in Water:</b>                | None                       |
| <b>% Volatile(by volume):</b> | N/E         | <b>Vapour Pressure(mm)Hg:</b>              | N/E                        |
| <b>Vapour Density(Air=1):</b> | N/E         | <b>Coefficient of Water/Oil Distribut:</b> | N/E                        |
| <b>pH</b>                     | N/Av.       |                                            |                            |

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

|                               |                                       |                                                                   |
|-------------------------------|---------------------------------------|-------------------------------------------------------------------|
| Flammability Yes/No           | No                                    | If yes under which conditions: Open flame, spark, excessive heat  |
| Auto Ignition Temperature:    | N/E                                   | Means of Extinguishing: Dry chemical, carbon dioxide, foam, water |
| Flashpoint and Method:        | > 160°C Tag CC                        | Hazardous Combustion Products: Carbon dioxide, carbon monoxide    |
|                               |                                       | halogenated compound                                              |
| Upper Flammable limit (% vol) | N/E                                   | Lower Flammable Limit (% by volume): N/E                          |
| Explosion Data:               | Sensitivity to Mechanical Impact: N/E | Sensitivity to Static Discharge: N/E                              |

## 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 agent |
| Reactivity and under what conditions?       | Open flames and sparks, Excessive heat                  |                                |                        |
| Hazardous Decomposition Products:           | Carbon monoxide, carbon dioxide, Halogenated compounds, |                                |                        |

**N/E: not established**

**N.Ap.:** Not applicable

**N. Av.: not available**

|                                                                          |                                                                                                             |                                                                                                    |     |                       |
|--------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-----|-----------------------|
| Material Name/Identifier:      Transmission Flush                        |                                                                                                             | Stock No.      689-1                                                                               |     | PAGE 2                |
| <b>SECTION VI-TOXICOLOGICAL PROPERTIES OF PRODUCT</b>                    |                                                                                                             |                                                                                                    |     |                       |
| Route of Entry: All Routes                                               |                                                                                                             | --SKIN CONTACT --SKIN ABSORPTION --EYE CONTACT --INHALATION --INGESTION                            |     |                       |
| Effects of Acute Exposure:                                               |                                                                                                             | May cause skin, eye irritation, dizziness, headache, vomiting, nausea, cough, pulmonary irritation |     |                       |
|                                                                          |                                                                                                             | Repeated overexposure of may cause liver and kidney damage.                                        |     |                       |
| LD 50 of Product:                                                        | >2000 mg/kg                                                                                                 | LC 50 of Product:                                                                                  | N/E |                       |
| Irritancy of Product:                                                    | Eye irritant                                                                                                | Exposure Limits of Product: 5mg/m3 TLV: TWA oil mist                                               |     |                       |
| Sensitization of Product:                                                | N/E                                                                                                         | Toxicologically Synergistic Materials:                                                             | N/E |                       |
| --CARCINOGENICITY --REPRODUCTIVE EFFECTS --TERATOGENICITY --MUTAGENICITY |                                                                                                             |                                                                                                    |     | none known            |
| <b>SECTION VII-PREVENTIVE MEASURES</b>                                   |                                                                                                             |                                                                                                    |     |                       |
| Personal Protective Equipment to be used:                                |                                                                                                             |                                                                                                    |     |                       |
| Gloves(specify):                                                         | Nitrile, PVA or chemical resistant gloves                                                                   | 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 a NIOSH approved cartridge type respirator is recommended. |                                                                                                    |     |                       |
| Engineering Controls:                                                    | Local ventilation                                                                                           |                                                                                                    |     |                       |
|                                                                          |                                                                                                             |                                                                                                    |     |                       |
| Waste Disposal:                                                          | According to local government regulation.                                                                   |                                                                                                    |     |                       |
| Storage Requirements:                                                    | Keep container closed when not in use. Keep at room temperature.                                            |                                                                                                    |     |                       |
|                                                                          |                                                                                                             |                                                                                                    |     |                       |
| Handling Procedures and                                                  | Keep out of reach of children. Handle with care.                                                            |                                                                                                    |     |                       |
| Equipment:                                                               |                                                                                                             |                                                                                                    |     |                       |
| DSL Listing                                                              | All components are listed in the inventory.                                                                 |                                                                                                    |     |                       |
| TDG Classification:                                                      | Not regulated                                                                                               |                                                                                                    |     |                       |
| WHMIS Classification:                                                    | Non-controlled                                                                                              |                                                                                                    |     |                       |
| <b>SECTION VIII-FIRST AID MEASURES</b>                                   |                                                                                                             |                                                                                                    |     |                       |
| Eye:                                                                     | Flush immediately with running water for at least 15 minutes. Consult physician immediately.                |                                                                                                    |     |                       |
| Skin:                                                                    | Remove contaminated clothing. Rinse with plenty of soapy. See doctor if irritation persist.                 |                                                                                                    |     |                       |
| Inhalation                                                               | Remove to fresh air. Restore breathing if required. See doctor if discomfort persist.                       |                                                                                                    |     |                       |
| Ingestion                                                                | DO NOT INDUCE VOMITING. If person conscious, give a glasses of water. See doctor immediately.               |                                                                                                    |     |                       |
| <b>SECTION IX-PREPARATION DATE OF M.S.D.S.</b>                           |                                                                                                             |                                                                                                    |     |                       |
| Additional Info/Comments:                                                |                                                                                                             | Source used: Supplier's data                                                                       |     |                       |
| Phone Number:                                                            | (905) 793-4311                                                                                              | Prepared By: Quality Control Laboratory                                                            |     |                       |
| Date Prepared:                                                           | January 2, 2015                                                                                             | Kleen-Flo Tumbler Industries Limited                                                               |     |                       |
|                                                                          |                                                                                                             |                                                                                                    |     |                       |
| THIS SHEET SUPERSEDES ANY OTHER M.S.D.S. PREVIOUSLY PREPARED             |                                                                                                             |                                                                                                    |     |                       |
| N/E: not established                                                     |                                                                                                             | N.Ap.: Not applicable                                                                              |     | N. Av.: not available |

## SECTION I-MATERIAL IDENTIFICATION AND USE

|                           |                                  |                         |                               |                  |
|---------------------------|----------------------------------|-------------------------|-------------------------------|------------------|
| Material Name/Identifier: | Transmission Sealer& Conditioner | Stock No.               |                               | 689-2            |
| 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/A (mixture)                    | Chemical Family:        |                               | Petroleum Oil    |
| Chemical Formula:         | N/A (mixture)                    | Trade Names & Synonyms: |                               | None             |
| Material Use:             | Sealer conditioner               | Molecular Weight:       |                               | N/Av. (mixture)  |

## SECTION II-HAZARDOUS INGREDIENTS OF MATERIAL

| Hazardous<br>Ingredients    | C.A.S.     | Approximate<br>Concentration | LD50<br>Species & Route | LC50<br>Species & Route  |
|-----------------------------|------------|------------------------------|-------------------------|--------------------------|
| Hydrotreated base oil       | 64742-54-7 | 60-100 %                     | >5000mg/kg rat-oral     | 5.2mg/L 4 hr Rat. Inhal. |
| Hydrotreated Paraffinic oil | 64742-47-8 | 10-30 %                      | >5000mg/kg rat-oral     | 5.2mg/L 4 hr Rat. Inhal. |
|                             |            |                              |                         |                          |

**This material is not known to contain any chemical listed as a carcinogen or suspected carcinogen by U.S. OSHS, IRAC, National Toxicology Program (NTP) at a concentration greater than 0.1 %.**

### SECTION III-PHYSICAL DATA FOR MATERIAL

|                               |            |                                            |                                          |
|-------------------------------|------------|--------------------------------------------|------------------------------------------|
| <b>Physical State:</b>        | liquid oil | <b>Odour/Appearance:</b>                   | Light hydrocarbon odour/ deep red colour |
| <b>Specific Gravity:</b>      | 0.86       | <b>Odour Threshold(p.p.m.):</b>            | N/E                                      |
| <b>Boiling Point:</b>         | > 150°C    | <b>Evaporation Rate:</b>                   | N/E                                      |
| <b>Freezing Point:</b>        | N/E        | <b>Solubility in Water:</b>                | None                                     |
| <b>% Volatile(by volume):</b> | N/E        | <b>Vapour Pressure(mm)Hg:</b>              | N/E                                      |
| <b>Vapour Density(Air=1):</b> | N/A        | <b>Coefficient of Water/Oil Distribut:</b> | N/E                                      |
| <b>pH</b>                     | N/A        |                                            |                                          |

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

|                                      |                                              |                                                                 |              |
|--------------------------------------|----------------------------------------------|-----------------------------------------------------------------|--------------|
| <b>Flammability Yes/No</b>           | <b>No</b>                                    | <b>If yes under which conditions?:</b>                          | <b>N.Ap.</b> |
| <b>Auto Ignition Temperature:</b>    | <b>N/E</b>                                   | <b>Means of Extinction:</b> Carbon dioxide, Foam, Dry Chemicals |              |
| <b>Flashpoint and Method:</b>        | <b>179°C PMCC</b>                            | <b>Hazardous Combustion Products:</b> Hydrocarbon fumes and     |              |
|                                      |                                              | Smoke, carbon dioxide, carbon monoxide                          |              |
| <b>Upper Flammable limit (% vol)</b> | <b>N/E</b>                                   | <b>Lower Flammable Limit (% by vol):</b>                        | <b>N/E</b>   |
|                                      |                                              |                                                                 |              |
| <b>Explosion Data:</b>               | <b>Sensitivity to mechanical impact: N/E</b> | <b>Sensitivity to Static Discharge:</b>                         | <b>No</b>    |

## 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?       | Hot surfaces, open flames, fire                             |                                           |       |
| Hazardous Decomposition Products:           | Carbon monoxide, carbon dioxide, Hydrocarbon, fumes, smoke. |                                           |       |

**N/E: not established**

**N.Ap.: Not applicable**

**N/Av.:** not available

|                                                                          |                                                                                                          |                                         |                |                      |
|--------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-----------------------------------------|----------------|----------------------|
| Material Name/Identifier: Transmission Conditioner                       |                                                                                                          | Stock No. 689-2                         |                | PAGE 2               |
| <b>SECTION VI-TOXICOLOGICAL PROPERTIES OF PRODUCT</b>                    |                                                                                                          |                                         |                |                      |
| Route of Entry: ALL Routes                                               | --SKIN CONTACT --SKIN ABSORPTION --EYE CONTACT --INHALATION --INGESTION                                  |                                         |                |                      |
| Effects of Acute Exposure:                                               | Nausea, headache, skin and eye irritation, dermatitis, respiration irritation.                           |                                         |                |                      |
| Effects of Chronic Exposure:                                             | None known                                                                                               |                                         |                |                      |
| LD 50 of Product:                                                        | N/E                                                                                                      | LC 50 of Product:                       | N/E            |                      |
| Irritancy of Product:                                                    | slight 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           |
| <b>SECTION VII-PREVENTIVE MEASURES</b>                                   |                                                                                                          |                                         |                |                      |
| Personal Protective Equipment to be used:                                |                                                                                                          |                                         |                |                      |
| Gloves(specify):                                                         | Chemical resistant gloves                                                                                | 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 absorbent material to absorb. Collect and dispose according local government regulation.       |                                         |                |                      |
| Waste Disposal:                                                          | According to local and provincial government regulation.                                                 |                                         |                |                      |
| Storage Requirements:                                                    | Store at room temperature. Keep container closed when not in use.                                        |                                         |                |                      |
| Handling Procedures and                                                  | Keep away from open flame, excessive heat, source of ignition.                                           |                                         |                |                      |
| Equipment:                                                               | Handle with care. Keep away from children. Do not inhale or ingest.                                      |                                         |                |                      |
| TDG Classification:                                                      | Not regulated                                                                                            |                                         |                |                      |
| WHMIS Classification:                                                    | Non-controlled                                                                                           |                                         |                |                      |
| <b>SECTION VIII-FIRST AID MEASURES</b>                                   |                                                                                                          |                                         |                |                      |
| Eye:                                                                     | Wash with water for at least 15 minutes. Seek medical help if discomfort persists.                       |                                         |                |                      |
| Skin:                                                                    | Remove contaminated clothing. Wash immediately with soap & water. See doctor if irritation persist.      |                                         |                |                      |
| Inhalation                                                               | Remove to fresh air. Restore breathing if required. See doctor if discomfort persist.                    |                                         |                |                      |
| Ingestion                                                                | <u>DO NOT INDUCE VOMITING.</u> Get medical help immediately.                                             |                                         |                |                      |
| <b>SECTION IX-PREPARATION DATE OF M.S.D.S.</b>                           |                                                                                                          |                                         |                |                      |
| Additional Info/Comments:                                                |                                                                                                          | Source used: Supplier's data            |                |                      |
| Phone Number:                                                            | (905) 793-4311                                                                                           | Prepared By: Quality Control Laboratory |                |                      |
| Date Prepared:                                                           | January 2, 2015                                                                                          | Kleen-Flo Tumbler Industries Limited    |                |                      |
| THIS SHEET SUPERSEDES ANY OTHER M.S.D.S. PREVIOUSLY PREPARED             |                                                                                                          |                                         |                |                      |
| N/E: not established                                                     |                                                                                                          | N.Ap.: Not applicable                   |                | N/Av.: not available |