

# SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

### Product identifier

Trade Name MICHELIN WHEEL & TIRE CLEANER  
Product Code 4000

### Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s) Automotive Care / Cleaning  
Uses Advised Against None

Company Identification Kleen-Flo Tumbler Ind. Ltd.  
75 Advance Blvd.  
Brampton, ON  
L6T 4N1

Telephone 905-793-4311  
Fax 905-793-4318

### Emergency telephone number

Emergency Phone No. CANUTEC: 613-996-6666

## SECTION 2: HAZARDS IDENTIFICATION

### Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200) Flam. Aerosol 2; Liquefied gas; Eye Dam. 1; Skin Irrit. 2; Asp. Tox. 1; STOT SE 3

### Label elements

Hazard Symbol



**DANGER**

Signal word(s)

Hazard Statement(s)

Flammable aerosol.  
Contains gas under pressure; may explode if heated.  
Causes serious eye damage.  
Causes skin irritation.  
May be fatal if swallowed and enters airways.  
May cause drowsiness or dizziness.

Precautionary Statement(s)

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Do not spray on an open flame or other ignition source.  
Do not pierce or burn, even after use.  
Wash hands and exposed skin after use.  
Wear protective gloves/protective clothing/eye protection/face protection.  
Avoid breathing dust/fume/gas/mist/vapours/spray.  
Use only outdoors or in a well-ventilated area.  
Protect from sunlight and do not expose to temperatures exceeding 50 °C/122 °F.

Other hazards

Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

| Hazardous Ingredient(s) | % wt.*  | CAS No.      | Hazard classification   |
|-------------------------|---------|--------------|---|
| Petroleum distillate    | 25 - 35 | Mixture      | Flam. Liq. 4; H227<br>Skin Irrit. 2; H315<br>Asp. Tox. 1; H304<br>STOT SE 3; H336<br>Aquatic Acute 2; H401<br>Aquatic Chronic 2; H411 |
| Proprietary Surfactant  | 5 - 15  | Trade Secret | Eye Irrit. 2B; H320   |
| Proprietary surfactant  | 2 - 7   | Trade Secret | Acute Tox. 4; H302<br>Eye Dam. 1; H318<br>Skin Irrit. 2; H315<br>Aquatic Acute 2; H401<br>Aquatic Chronic 3; H412                     |
| Propane                 | 2 - 7   | 74-98-6      | Flam. Gas 1; H220<br>Liquefied gas; H280  |
| n-Butane                | 2 - 7   | 106-97-8     | Flam. Gas 1, H220<br>Liquefied gas; H280  |

**Additional Information - None**

\* The exact percentage withheld as a trade secret in accordance with 29 CFR 1910.1200.

**SECTION 4: FIRST AID MEASURES**



**Description of first aid measures**

|              |   |
|--------------|---|
| Inhalation   | Move person to fresh air. If breathing is laboured, administer oxygen. If symptoms develop, obtain medical attention.                                     |
| Skin Contact | Wash affected skin with soap and water. If skin irritation occurs, get medical advice/attention. Take off contaminated clothing and wash it before reuse. |
| Eye Contact  | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention.     |
| Ingestion    | Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. Do not give anything by mouth to an unconscious person.                     |

**Most important symptoms and effects, both acute and delayed**      Aspiration of droplets may cause pulmonary oedema. Causes serious eye damage.

**Indication of any immediate medical attention and special treatment needed**      IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

**SECTION 5: FIRE-FIGHTING MEASURES**

**Extinguishing Media**

-Suitable Extinguishing Media      Extinguish with carbon dioxide, dry chemical, foam or waterspray.  
-Unsuitable Extinguishing Media      Do not use water jet.

**Special hazards arising from the substance or mixture**      Pressurised container: May burst if heated

**Advice for fire-fighters**      A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions. Keep containers cool by spraying

with water if exposed to fire.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

|  |   |
|--|---|
| <b>Personal precautions, protective equipment and emergency procedures</b> | Eliminate all ignition sources if safe to do so. Avoid contact with skin. Do not get in eyes. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing gas/spray. |
| <b>Environmental precautions</b>   | Prevent liquid entering sewers, basements and work pits. Avoid release to the environment.  |
| <b>Methods and material for containment and cleaning up</b>                | Cover spills with inert absorbent material. Transfer to a container for disposal or recovery.   |
| <b>Reference to other sections</b>   | None  |
| <b>Additional Information</b>  | None  |

**SECTION 7: HANDLING AND STORAGE**

|   |  |
|---|--|
| <b>Precautions for safe handling</b>                                | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid contact with skin. Do not get in eyes. Avoid breathing gas/spray. Use product in a well-ventilated area only. |
| <b>Conditions for safe storage, including any incompatibilities</b> |  |
| -Storage temperature  | Store in a well-ventilated place. Protect from sunlight. Store at temperatures not exceeding 50 °C / 122 °F. Keep container tightly closed. Store locked up.   |
| -Incompatible materials   | This product should be stored away from sources of strong heat or oxidizing chemicals.   |
| <b>Specific end use(s)</b>  | Automotive Care / Cleaning   |

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Occupational Exposure Limits**

| SUBSTANCE.   | CAS No.  | (8hr TWA)  |                        | (STEL)     |             | Note: |
|--|----------|------------|------------------------|------------|-------------|-------|
|  |          | PEL (OSHA) | TLV (ACGIH)            | PEL (OSHA) | TLV (ACGIH) |       |
| C <sub>9</sub> -C <sub>15</sub> Alkanes & Cycloalkanes | Mixture  | -----      | 1200 mg/m <sup>3</sup> | -----      | -----       |       |
| n-Butane   | 106-97-8 | -----      | 250 ppm                | -----      | -----       | ----- |
| Propane  | 74-98-6  | 1000 ppm   | Aspyx.#                | -----      | -----       | #     |

#Assure minimum oxygen content of work atmosphere.

**Recommended monitoring method** NIOSH 1500 (hydrocarbons, B.P. 36 - 216 °C); NIOSH 1550 (Naphthas)

**Exposure controls**

**Appropriate engineering controls** Provide adequate ventilation to ensure that the occupational exposure limit is not exceeded.

**Personal protection equipment**

Eye/face protection Wear protective eyewear (goggles, face shield, or safety glasses).



Skin protection (Hand protection/ Other)



Wear suitable gloves if prolonged skin contact is likely (Nitrile rubber or Butyl rubber). Check with protective equipment manufacturer's data.

Respiratory protection



Normally no personal respiratory protection is necessary. In case of insufficient ventilation, wear suitable respiratory equipment. Check with protective equipment manufacturer's data.

Thermal hazards

Not normally required. Use gloves with insulation for thermal protection, when needed.

**Environmental Exposure Controls**

None known

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|  |                                    |
|--|------------------------------------|
| Appearance                               | Aerosol spray                      |
| Color                                    | Clear                              |
| Odor                                     | Fuel oil-like                      |
| Odor Threshold (ppm)                     | Not available                      |
| pH (Value)                               | Not available                      |
| Melting Point (°C) / Freezing Point (°C) | Not available                      |
| Boiling point/boiling range (°C):        | Not available                      |
| Flash Point (°C)                         | -104 (Propane)                     |
| Evaporation Rate                         | Not available                      |
| Flammability (solid, gas)                | Flammable aerosol                  |
| Explosive Limit Ranges                   | 2.1% - 9.5% v/v (Propane)          |
| Vapor pressure (Pascal)                  | ca. 95 x 10 <sup>4</sup> (Propane) |
| Vapor Density (Air=1)                    | ca. 1.56 @ 0 °C (Propane)          |
| Density (g/ml)                           | Not available.                     |
| Solubility (Water)                       | Not available                      |
| Solubility (Other)                       | Not available                      |
| Partition Coefficient (n-Octanol/water)  | Not available                      |
| Auto Ignition Point (°C)                 | Not available                      |
| Decomposition Temperature (°C)           | Not available                      |
| Kinematic Viscosity (cSt)                | < 20.5 @ 40 0°C                    |
| Explosive properties                     | Not explosive.                     |
| Oxidizing properties                     | Not oxidizing.                     |
| <b>Other information</b>                 | Not available                      |

## SECTION 10: STABILITY AND REACTIVITY

|   |  |
|---|--|
| <b>Reactivity</b>                         | Stable under normal conditions.  |
| <b>Chemical stability</b>                 | Stable.  |
| <b>Possibility of hazardous reactions</b> | None anticipated.  |
| <b>Conditions to avoid</b>                | Avoid contact with heat and ignition sources.  |
| <b>Incompatible materials</b>             | This product should be stored away from sources of strong heat or oxidizing chemicals. |
| <b>Hazardous decomposition product(s)</b> | Carbon monoxide, Carbon dioxide, Acrid smoke.  |

## SECTION 11: TOXICOLOGICAL INFORMATION

**Exposure routes:** Inhalation, Skin Contact, Eye Contact

**Information on toxicological effects**

Petroleum Distillate (CAS No. Mixture) - By analogy with similar materials:

**Acute toxicity** (calculated / estimated) Oral: LD50 >5000 mg/kg-bw  
 Dermal: LD50 >2000 mg/kg-bw  
 Inhalation: LC0 ≥5.28 mg/l (Vapor), 4-hr. rat - May cause drowsiness or dizziness.

**Irritation/Corrosivity** Causes skin irritation. Repeated exposure may cause skin dryness or cracking.

**Sensitization** It is not a skin sensitizer.

**Repeated dose toxicity** Oral: NOEAL 750 mg/kg  
 Dermal: NOEAL 0.5 ml/kg bw  
 Inhalation: NOAEL ≥1000 mg/m3

**Carcinogenicity** It is unlikely to present a carcinogenic hazard to man.

| NTP | IARC | ACGIH | OSHA | NIOSH |
|-----|------|-------|------|-------|
| No. | No.  | No.   | No.  | No.   |

**Mutagenicity** Not to be expected  
**Reproductive toxicity** Not to be expected

Proprietary Surfactant (CAS# Trade Secret) – By analogy with similar materials:

**Acute toxicity** Oral: LD50: 1378 - >2000 mg/kg (rat)  
 Dermal: LD50: >2000 mg/kg (rabbit)

**Irritation/Corrosivity** Causes serious eye damage.

**Sensitisation** It is not a skin sensitizer.

**Repeated dose toxicity** Not available.

**Carcinogenicity** It is unlikely to present a carcinogenic hazard to man.

| NTP | IARC | ACGIH | OSHA | NIOSH |
|-----|------|-------|------|-------|
| No. | No.  | No.   | No.  | No.   |

**Mutagenicity** Not available.  
**Reproductive toxicity** Not available.

**SECTION 12: ECOLOGICAL INFORMATION**

**Ecotoxicity**

Petroleum Distillate (CAS No. Mixture) - By analogy with similar materials:

**Short term** LC50 (96 hour): 2.5 mg/L (fish)  
 EC50 (48 hour): 1.4 mg/L (crustacea)  
 EC50 (72 hour): 1.3 mg/L (algae)

**Long Term** NOEC (28 days): 0.098 mg/L (fish)  
 LOEC (21 days): 1.2 mg/L (crustacea)  
 LOEL (72 hour): 1 mg/L (algae)

**Persistence and degradability** Biodegradable

**Bioaccumulative potential** The product has no potential for bioaccumulation.

**Mobility in soil** Not available.

**Results of PBT and vPvB assessment** Not classified as PBT or vPvB.

**Other adverse effects** None known.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste treatment methods** Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.

**SECTION 14: TRANSPORT INFORMATION**

|                                     | <u>U.S. DOT</u>     | <u>Sea transport (IMDG)</u> | <u>Air transport (ICAO/IATA)</u> |
|-------------------------------------|---------------------|-----------------------------|----------------------------------|
| <b>UN number</b>                    | 1950                | 1950                        | 1950                             |
| <b>Proper Shipping Name</b>         | Aerosols, flammable | Aerosols, flammable         | Aerosols, flammable              |
| <b>Transport hazard class(es)</b>   | 2.1                 | 2.1                         | 2.1                              |
| <b>Packing group</b>                | Not applicable      | Not applicable              | Not applicable                   |
| <b>Environmental hazards</b>        | None assigned       | None assigned               | None assigned                    |
| <b>Special precautions for user</b> | None assigned       | None assigned               | None assigned                    |

This product is exempted under TDG section 1.17 as limited quantity and can be shipped as limited quantity.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

**SECTION 15: REGULATORY INFORMATION**

**Safety, health and environmental regulations/legislation specific for the substance or mixture:**

**TSCA (Toxic Substance Control Act) - Inventory Status:** All components listed or polymer exempt.

**Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):**

| Chemical Name | CAS No. | Typical %wt. | RQ (Pounds) |
|---------------|---------|--------------|-------------|
| None          | ----    | ----         | ----        |

**SARA 311/312 - Hazard Categories:**

Fire     Sudden Release     Reactivity     Immediate (acute)     Chronic (delayed)

**SARA 313 - Toxic Chemicals (40 CFR 372):**

| Chemical Name | CAS No. | Typical %wt. |
|---------------|---------|--------------|
| None          | ----    | ----         |

**SARA 302 - Extremely Hazardous Substances(40 CFR 355):**

| Chemical Name | CAS No. | Typical %wt. | TPQ (pounds) |
|---------------|---------|--------------|--------------|
| None          | ----    | ----         | ----         |

**California Proposition 65 List:**

| Chemical Name | CAS No. | Type of Toxicity |
|---------------|---------|------------------|
| Methanol      | 67-56-1 | Developmental    |
| Acetaldehyde  | 75-07-0 | Cancer           |

**SECTION 16: OTHER INFORMATION**

**Date of preparation:** September 28, 2015

Prepared by: Kleen-Flo Tumbler Ind. Ltd.

**Guidelines for SDS use:** The product described in this SDS is a consumer product. It is safe for use by consumers as described on the product label under normal, foreseeable conditions. This SDS is designed to provide additional safety and handling information.

Disclaimer: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.