SAFETY DATA SHEET

Bar Keepers Friend Toilet Bowl Cleaner

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Bar Keepers Friend Toilet Bowl Cleaner
Formula Number: 14001007
Product Code(s): 11785
Product Description: Viscous liquid with a blue color and wintergreen odor
Recommended Use: Toilet and urinal cleaner
Manufactured For: Servaas Laboratories Inc.
Address: 5240 Walt Place
Indianapolis, Indiana 46254
Phone: (317)-636-7760
National Poison Control Center: (800)-222-1222

SECTION 2 – HAZARDS IDENTIFICATION

HAZARD CLASSIFICATION IN ACCORDANCE WITH 29 CFR 1910.1200(d)

Acute Toxicity (oral): Category 4
Serious Eye Damage/Eye Irritation: Category 1
Skin Corrosion/Irritation: Category 1B
Corrosive to Metals: Category 1

LABEL CONTENT IN ACCORDANCE WITH 29 CFR 1910.1200(f)

Hazard Pictogram(s):

Signal Word(s): Danger

Hazard Statement(s): Harmful if swallowed
Causes serious eye damage
Causes severe skin burns and eye damage
May be corrosive to metals

Precautionary Statement(s):

General: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label available.

Prevention: Keep only in original packaging. Wear protective gloves and eye or face protection. Do not breathe mist. Wash hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product.

Response: Absorb spillage to prevent material damage. IF SWALLOWED: Rinse mouth. Do not induce vomiting. Immediately call a doctor or poison control center. IF IN EYE(S): Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Immediately call a doctor or poison control center. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. Immediately call a doctor or poison control center. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a doctor or poison control center.

Storage: Store locked up. Transport and store in an upright position and in the original container.
Disposal: Dispose of in accordance with all applicable federal, state and local regulations. Do not reuse empty containers – flush with water and place in appropriate trash or recycling receptacle.

Supplemental Label Element(s): None known
Hazard(s) Not Otherwise Classified: None known

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Hazardous Ingredient</th>
<th>Common Name(s) / Synonyms</th>
<th>CAS #</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen Chloride</td>
<td>Hydrochloric Acid, Muriatic Acid, Spirit of Salts</td>
<td>7647-01-0</td>
<td>5-10%</td>
</tr>
<tr>
<td>Amines, Tallow Alkyl, Ethoxylated</td>
<td>Tallow Alkyl Amines Ethoxylated</td>
<td>61791-26-2</td>
<td>&lt;2.0%</td>
</tr>
</tbody>
</table>

This product contains no known carcinogens present at or above de minimus level

SECTION 4 – FIRST AID MEASURES

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Immediately call a doctor or poison control center.

Skin Contact: Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. Immediately call a doctor or poison control center.

Ingestion: Rinse mouth. Do not induce vomiting. Immediately call a doctor or poison control center.

Inhalation: Remove person to fresh air and keep comfortable for breathing. Immediately call a doctor or poison control center.

Signs and symptoms of exposure: Ingestion: causes severe burns of mouth, throat, esophagus and stomach – symptoms include nausea, vomiting, diarrhea, and possibly death
Eye Contact: causes severe burns to eye tissues that may result in eye damage or blindness
Skin Contact: depending on exposure, varies from irritation to severe skin damage including dermatitis, redness, swelling, pain, blistering, or scarring
Inhalation: depending on exposure, varies from irritation of the nose and throat to difficulty breathing, shortness of breath, pulmonary edema, or dental erosion

Notes to physician: Contains hydrochloric acid, a strong mineral acid solution that is highly corrosive to tissues, including mucous membranes

SECTION 5 – FIRE FIGHTING MEASURES

Extinguishing media: Foam, carbon dioxide, dry chemical – direct water spray may spread fire

Specific hazards during fire-fighting: This product is not combustible, but containers may rupture in a fire situation. Violent steam generation may occur upon application of direct water stream to hot liquids. Thermal decomposition or burning may produce noxious and/or toxic fumes including oxides or carbon and nitrogen. Incomplete combustion may form carbon monoxide. Evacuate downwind personnel

Special protective equipment for firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire-fighting clothing. If protective equipment is not available or not used, fight fire from a protected location or safe distance

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spill response: Do not touch or walk through spilled material. Stop leak(s) only if you can do so without risk. Prevent release into waterways, sewers, basements or confined areas. Dilute the spilled material with water. Flush spill area with water and cover with sodium bicarbonate and transfer waste to labeled containers
Other precautions: Evacuate personnel and ventilate area around spill. Keep personnel upwind of spill. Only trained and properly protected personnel must be involved in clean-up operations. Use appropriate safety equipment

SECTION 7 – HANDLING AND STORAGE

Keep out of reach of children and pets. Avoid contact with eyes, skin and clothing. Avoid breathing vapors. Do not ingest. Do not mix with other household chemicals, as hazardous gases could be released. Keep container closed when not in use and store in a cool, dry place. Do not reuse empty container. Do not expose product to extreme hot or cold temperatures

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits

<table>
<thead>
<tr>
<th>Component</th>
<th>List</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen Chloride</td>
<td>OSHA</td>
<td>PEL</td>
<td>7 mg/m³</td>
</tr>
<tr>
<td></td>
<td>OSHA</td>
<td>PEL</td>
<td>5 ppm</td>
</tr>
<tr>
<td></td>
<td>ACGIH</td>
<td>TLV</td>
<td>2 ppm</td>
</tr>
<tr>
<td></td>
<td>NIOSH</td>
<td>REL</td>
<td>7 mg/m³</td>
</tr>
<tr>
<td></td>
<td>NIOSH</td>
<td>REL</td>
<td>5 ppm</td>
</tr>
</tbody>
</table>

Amines, tallow alkyl, ethoxylated no data no data no data

Engineering Controls

Use in area with adequate ventilation to minimize exposure to product mist

Personal Protective Equipment (PPE)

Safety glasses, splash goggles and/or face shields are required when handling large quantities of product. Wear chemical-resistant gloves if there is a potential for skin contact. In situations where exposure limits may be exceeded, a NIOSH-approved respirator is recommended

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Blue, viscous liquid
Odor: Wintergreen
Odor Threshold: Not available
pH: < 1.0
Melting/freezing point: Not available
Boiling point/boiling range: Not available
Flash point: > 212 °F
Evaporation rate: Not available
Vapor pressure: Not available
Viscosity: 350 – 500 cP (s62, 60 rpm)

Upper flammability limit: Not available
Lower flammability limit: Not available
Flammability: Not available
Auto-ignition temperature: Not available
Decomposition temperature: Not available
Specific gravity: 1.031 – 1.051
Solubility in water: Complete
Partition coefficient: Not available
Vapor Density: Not available

SECTION 10 – STABILITY AND REACTIVITY

Chemical reactivity: Stable at normal use/storage conditions, will not hazardously polymerize
Chemical stability: Stable at normal use/storage conditions, will not hazardously polymerize
Conditions to avoid: Avoid contact with aluminum, tin and zinc
Incompatible materials: Do not mix with other chemicals, including strong alkaline substances
Hazardous decomposition products: In a fire situation, will produce hydrogen chloride, chlorine and normal products of combustion

Hazardous reaction possibility: None known

**Section 11 – Toxicological Information**

This product contains no known carcinogens. Likely routes of entry include inhalation, ingestion, skin contact, and eye contact.

*Signs and symptoms of exposure:*
- **Ingestion**: causes severe burns of mouth, throat, esophagus and stomach – symptoms include nausea, vomiting, diarrhea, and possibly death
- **Eye Contact**: causes severe burns to eye tissues that may result in eye damage or blindness
- **Skin Contact**: depending on exposure, varies from irritation to severe skin damage including dermatitis, redness, swelling, pain, blistering, or scarring
- **Inhalation**: depending on exposure, varies from irritation of the nose and throat to difficulty breathing, shortness of breath, pulmonary edema, or dental erosion

<table>
<thead>
<tr>
<th>Component</th>
<th>Acute toxicity, ingestion</th>
<th>Acute toxicity, absorption</th>
<th>Repeated dose toxicity</th>
<th>Developmental toxicity</th>
<th>Reproductive toxicity</th>
<th>Genetic toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen Chloride</td>
<td>900 mg/kg, LD50, rabbit</td>
<td>1,449 mg/kg, LD50, mouse</td>
<td>chronic effects generally result of long-term irritation</td>
<td>not available</td>
<td>not available</td>
<td>not available</td>
</tr>
<tr>
<td>Amines, tallow alkyl, ethoxylated</td>
<td>620 mg/kg, LD50, rat</td>
<td>not available</td>
<td>not available</td>
<td>not available</td>
<td>not available</td>
<td>not available</td>
</tr>
</tbody>
</table>

**Section 12 – Ecological Information**

<table>
<thead>
<tr>
<th>Component</th>
<th>Aquatic Ecotoxicity</th>
<th>Terrrestrial Ecotoxicity</th>
<th>Persistence &amp; Degradability</th>
<th>Bioaccumulative Potential</th>
<th>Soil Mobility</th>
<th>Other Adverse Effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen Chloride</td>
<td>not toxic to aquatic life, however decreasing the pH in waterways can lead to adverse effects</td>
<td>not expected to be harmful to terrestrial species</td>
<td>not available</td>
<td>low bioaccumulative potential</td>
<td>not available</td>
<td>none known</td>
</tr>
<tr>
<td>Amines, tallow alkyl, ethoxylated</td>
<td>very toxic to aquatic life with long lasting effect</td>
<td>expected to be toxic to terrestrial organisms</td>
<td>not available</td>
<td>not available</td>
<td>not available</td>
<td>none known</td>
</tr>
</tbody>
</table>

**Section 13 – Disposal Considerations**

Dispose of in accordance with all applicable federal, state and local regulations. Do not reuse empty containers – flush with water and place in appropriate trash or recycling receptacle

**Section 14 – Transportation Information**

| UN Number: | UN1789 |
| UN Proper Shipping Name: | Hydrochloric acid solution |
| Transportation Hazard Class(es): | 8 |
| Packing Group: | II |
| Environmental Hazards: | n/a (not shipped in bulk containers) |
| Transport in bulk: | n/a |
| Limited Quantity Exception possible: | Yes, provided that inner packaging is 1.0 liter (33.8 fluid ounces) or less – see 49 CFR 173.154 for more details |
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SECTION 15 – REGULATORY INFORMATION

TSCA: All ingredients in this product are on the TSCA inventory or are exempt from TSCA inventory requirements under 40 CFR 720.30

FIFRA: This product is not a registered pesticide

CERCLA reportable quantity: 5,000 lbs Hydrogen Chloride (approximately 52,350 lbs or approximately 6,020 gallons Toilet Bowl Cleaner finished product)

California Proposition 65: This product contains no listed substances known to the state of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute

California SC-258 Compliance:

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Ingredient Name</th>
<th>Function</th>
<th>Designated List</th>
</tr>
</thead>
<tbody>
<tr>
<td>7732-18-5</td>
<td>Water</td>
<td>Ingredient Coupler</td>
<td>No</td>
</tr>
<tr>
<td>7647-01-0</td>
<td>Hydrochloric Acid</td>
<td>Descaler</td>
<td>CA TACS*</td>
</tr>
<tr>
<td>61791-26-2</td>
<td>Tallow Amine Ethoxylate</td>
<td>Coupling Agent</td>
<td>No</td>
</tr>
<tr>
<td>57-55-6</td>
<td>1,2-Propanediol</td>
<td>Thickening Agent</td>
<td>No</td>
</tr>
<tr>
<td>Withheld as CBI</td>
<td>Fragrance Ingredients</td>
<td>Olfactory Enhancer</td>
<td>No</td>
</tr>
<tr>
<td>5989-27-5</td>
<td>d-Limonene</td>
<td>Colorant</td>
<td>No</td>
</tr>
<tr>
<td>6104-58-1</td>
<td>Acid Blue 90</td>
<td>Colorant</td>
<td>No</td>
</tr>
<tr>
<td>28983-56-4</td>
<td>Acid Blue 93</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* [https://ww3.arb.ca.gov/toxics/id/taclist.htm](https://ww3.arb.ca.gov/toxics/id/taclist.htm)

SARA Title III 302 extremely hazardous substance: No

SARA Title III 313 reportable ingredients: No

SARA Title III 311/312 hazard categories:

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Immediate Hazard</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Delayed Hazard</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Fire Hazard</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Pressure Hazard</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Reactivity Hazard</td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

SECTION 16 – OTHER INFORMATION

This product should only be used as directed on the label and for its intended purpose. This document has been prepared using data from sources considered to be technically reliable. It does not constitute a warranty, expressed or implied, as to the accuracy of the information contained herein. Actual conditions of use are beyond the manufacturer’s control and all chemicals may present unknown hazards and should be used with caution. User is responsible for evaluating all available information when using this product for a particular use and to comply with all applicable federal, state and local laws and regulations.