Material Safety Data Sheet

Material Name: Safety-Kleen Professional Hand Cleaner with Scrubbers

*** Section 1 - Chemical Product and Company Identification ***

Product Name: Safety-Kleen Professional Hand Cleaner with Scrubbers
Product Code: 32634
Product Use: Hand Cleaner
Synonyms: None

Safety-Kleen Systems, Inc.
5360 Legacy Drive
Building 2, Suite 100
Plano, TX 75024
Phone: 1-800-669-5740
Emergency # 1-800-468-1760

Issue Date: March 22, 2012
Supersedes Issue Date: January 24, 2011
Original Issue Date: January 16, 2006

PREPARED BY: Product MSDS Coordinator APPROVED BY: MSDS Task Force

*** Section 2 - Hazardous Identification ***

EMERGENCY OVERVIEW
Appearance
Opaque liquid.

Signal Word
CAUTION!

Physical Hazards
Combustible liquid.

Health Hazards
May be harmful if swallowed. May irritate the eyes, nose, throat, and lung.

POTENTIAL HEALTH EFFECTS
Inhalation (Breathing)
Vapor generation is unlikely. However, high concentrations of vapor or mist may irritate the respiratory tract (nose, throat, and lungs) and may cause nausea, vomiting, headaches, dizziness, loss of coordination, numbness, and other central nervous system effects.

Eyes
May cause irritation. Symptoms may include tearing, stinging, and redness.

Skin
Not likely to be absorbed through the skin in harmful amounts.

Ingestion (Swallowing)
May be harmful if swallowed. May cause throat irritation, nausea, vomiting, and central nervous system effects as noted under INHALATION (breathing). Breathing product into lungs during ingestion or vomiting may cause lung injury.

Medical Conditions Aggravated by Exposure
Individuals with pre-existing skin and respiratory problems may be aggravated by prolonged or repeated contact.

Chronic
Prolonged or repeated eye contact may cause inflammation of the membrane lining the eyelids and covering the eyeball (conjunctivitis). Prolonged or repeated skin contact may cause drying, cracking, redness, itching, and/or swelling (dermatitis).
Material Safety Data Sheet
Material Name: Safety-Kleen Professional Hand Cleaner with Scrubbers

Cancer Information
No known carcinogenicity. For more information, see SECTION 11: CARCINOGENICITY.

Environmental Hazards
Product not expected to be toxic to aquatic life. Also see SECTION 12: ECOLOGICAL INFORMATION.

*** Section 3 - Composition / Information on Ingredients ***

<table>
<thead>
<tr>
<th>CAS</th>
<th>Component</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>64742-47-8</td>
<td>Petroleum distillates, hydrotreated light</td>
<td>5-20</td>
</tr>
<tr>
<td>68439-46-3</td>
<td>Alcohols, C9-11, ethoxylated</td>
<td>5-20</td>
</tr>
</tbody>
</table>

*** Section 4 - First Aid Measures ***

Inhalation (Breathing)
Remove to fresh air. If symptoms are experienced, remove source of contamination or move victim to fresh air. Call a physician if symptoms develop or persist.

Eyes
Upon contact, immediately flush eyes with plenty of lukewarm water, holding eyelids apart, for 15 minutes. Get medical attention if irritation develops.

Skin
For acute or dangerous contact: Remove affected clothing and shoes. Wash skin thoroughly with soap and water. Get medical attention if irritation develops or persists. Wash contaminated clothing before reuse.

Ingestion (Swallowing)
Do NOT induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Call 1-800-468-1760 for additional information. Never give anything by mouth to an unconscious person. If irritation persists or develops seek medical attention.

Notes to Physicians
Treat symptomatically and supportively. Administration of gastric lavage, if warranted, should be performed by qualified medical personnel. Treatment may vary with condition of victim and specifics of incident. Call 1-800-468-1760 for additional information.

*** Section 5 - Fire Fighting Measures ***

Hazardous Combustion Products
Decomposition and combustion materials may be toxic. Upon decomposition, this product emits carbon monoxide, carbon dioxide, nitrogen oxides, and/or low molecular weight hydrocarbons and irritating fumes.

Conditions of Flammability
Heat, sparks, or flame.

Extinguishing Media
Carbon dioxide, regular foam, alcohol foam, dry chemical, water spray, or water fog.

Protective Equipment For Firefighting
A positive-pressure, self-contained breathing apparatus (SCBA) and full-body protective equipment are required for fire emergencies.

Fire Fighting Equipment/Instructions
Keep storage containers cool with water spray.

NFPA Ratings: Health: 1 Fire: 2 Reactivity: 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Fire and Explosion Hazards
Vapor explosion hazard indoors, outdoors, or in sewers. Vapor may travel to ignition sources and flashback. Vapors will spread along the ground and collect in low or confined areas. Run-off to sewer may create a fire or explosion hazard. Heated containers may rupture, explode, or be thrown into the air. “Empty” containers may retain residue and can be dangerous. Product may be sensitive to static discharge, which could result in fire or explosion.
*** Section 6 - Accidental Release Measures ***

Remove all ignition sources. Do not touch or walk through spilled product. Stop leak if you can do it without risk. Wear protective equipment and provide engineering controls as specified in SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION. Isolate hazard area. Keep unnecessary and unprotected personnel from entering area. Ventilate area and avoid breathing vapor or mist. A vapor suppressing foam may be used to reduce vapors. Contain spill away from surface waters and sewers. Contain spill as a liquid for possible recovery, or sorb with compatible sorbent material and shovel with a clean, sparkproof tool into a sealable container for disposal. Additionally, for large spills: Water spray may reduce vapor, but may not prevent ignition in closed spaces. Dike far ahead of liquid spill for collection and later disposal. There may be specific regulatory reporting requirements associated with spills, leaks, or releases of this product. Also see SECTION 15: REGULATORY INFORMATION.

*** Section 7 - Handling and Storage ***

Handling Procedures
Do not get this material in your eyes. Avoid spills of this material on your clothing. Do not breathe vapor or mist. Keep away from heat, sparks, or flame. Avoid prolonged or repeated skin contact with this material. Do not smoke while using this product. Do not mix with other materials. Keep out of reach of children.

Shipping and Storing
Keep container tightly closed when not in use and during transport. Store containers in a cool, dry, well-ventilated place. Prevent product from freezing. Keep containers away from heat, flame, sparks, static electricity, or other sources of ignition. Empty product containers may retain product residue and can be dangerous. Keep product out of reach of children. Traces of free ethylene oxide may be present in this product and could accumulate in the headspace of storage and transport vessels. See SECTION 14: TRANSPORTATION INFORMATION for Packing Group information.

*** Section 8 - Exposure Controls / Personal Protection ***

Exposure Guidelines
Component Exposure Limits
ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.

Engineering Controls
Provide general ventilation. Where adequate general ventilation is unavailable, use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels. Where explosive mixtures may be present, equipment safe for such locations should be used.

Personal Protective Equipment: Respiratory
If ventilation is not sufficient to effectively prevent buildup of aerosols or mists, appropriate NIOSH approved respiratory protection must be provided.

Personal Protective Equipment: Eyes/Face
Wear safety glasses, chemical goggles (if splashing is possible).

Personal Protective Equipment: Skin
None needed under normal use. For bulk shipments, where prolonged skin contact is likely, wear chemical resistant gloves.

Personal Protective Equipment: Personal Hygiene
Use good personal hygiene.

Other Personal Protective Equipment
Where spills and splashes are likely, facilities storing or using this product should be equipped with an emergency eyewash and shower, both equipped with clean water, in the immediate work area.
**Material Safety Data Sheet**

**Material Name:** Safety-Kleen Professional Hand Cleaner with Scrubbers  
**ID:** 820004

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### **Section 9 - Physical & Chemical Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance/Odor</td>
<td>Opaque white liquid with lavender odor.</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>&gt;338°F (&gt;170°C)</td>
</tr>
<tr>
<td>Solubility (H2O)</td>
<td>Soluble</td>
</tr>
<tr>
<td>Density</td>
<td>0.8906 +/- 3%</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>0.31 (butyl acetate = 1) (approximately)</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>pH</td>
<td>8.8</td>
</tr>
<tr>
<td>Melting Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>0.96-0.97 (water = 1)</td>
</tr>
<tr>
<td>Octanol/H2O Coeff.</td>
<td>Not available</td>
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<tr>
<td>Molecular Weight</td>
<td>Not available</td>
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<tr>
<td>Solubility (H2O)</td>
<td>Soluble</td>
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<tr>
<td>Flash Point</td>
<td>&gt;167°F (75°C)</td>
</tr>
<tr>
<td>LFL</td>
<td>Not available</td>
</tr>
<tr>
<td>UFL</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>18.29 mm HG</td>
</tr>
</tbody>
</table>

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### **Section 10 - Chemical Stability & Reactivity Information**

**Stability**

Stable under normal temperatures and pressures.

**Incompatibility**

Strong oxidizing agents such as chlorine bleach and concentrated hydrogen peroxide; strong acids.

**Reactivity**

Polymerization is not known to occur under normal temperature and pressures. Not reactive with water.

**Hazardous Decomposition Products**

 Decomposition and combustion materials may be toxic. Upon decomposition, this product emits carbon monoxide, carbon dioxide, nitrogen oxides, and/or low molecular weight hydrocarbons and irritating fumes. See also **SECTION 5: HAZARDOUS COMBUSTION PRODUCTS**.

**Conditions To Avoid**

Heat, hot surfaces, sparks, and open flames.

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### **Section 11 - Toxicological Information**

**Toxicity Data**

**Component Analysis - LD50/LC50**

- Petroleum distillates, hydrotreated light (64742-47-8)
  - Oral LD50 Rat >5000 mg/kg; Dermal LD50 Rabbit >2000 mg/kg
- Alcohols, C9-11, ethoxylated (68439-46-3)
  - Oral LD50 Rat 1378 mg/kg; Dermal LD50 Rabbit >2 g/kg

**Acute Effects**

This product can irritate the eyes. Ingestion may cause gastrointestinal disturbances, including nausea, vomiting, and diarrhea. Small amounts of this product, if aspirated into the lungs, may cause mild to severe pulmonary injury.

**Repeated Dose Effects**

Repeated or prolonged exposure may cause irritation of the skin and respiratory system.

**Carcinogenicity**

Based on best current information for the components listed in **SECTION 2**, there is no known carcinogenicity as categorized by ACGIH A1 or A2 substances; as categorized by IARC Group 1, Group 2A, or Group 2B agents; or as listed by NTP as either known carcinogens or substances for which there is limited evidence of carcinogenicity in experimental animals. Also see **SECTION 15, CALIFORNIA**.

**Target Organ Effects**

None identified.

**Sensitization**

Based on best current information, there is no known human sensitization associated with this product.

**Mutagenicity**

Based on best current information, there is no known mutagenicity associated with this product.

**Reproductive Toxicity**

Based on best current information, there is no known reproductive toxicity associated with this product. Also see **SECTION 15: CALIFORNIA**.
Teratogenicity
Based on best current information, there is no known teratogenicity associated with this product.

Toxicologically Synergistic Products
Based on best current information, there are no known toxicologically synergistic products associated with this product.

*** Section 12 - Ecological Information ***

Ecotoxicity
Product is not expected to be harmful to aquatic life based upon an analysis of its components.

Component Analysis - Ecotoxicity - Aquatic Toxicity
Petroleum distillates, hydrotreated light (64742-47-8)

<table>
<thead>
<tr>
<th>Duration/Test/Species</th>
<th>Concentration/Conditions/Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>96 Hr LC50 Pimephales promelas</td>
<td>45 mg/L [flow-through]</td>
</tr>
<tr>
<td>96 Hr LC50 Lepomis macrochirus</td>
<td>2.2 mg/L [static]</td>
</tr>
</tbody>
</table>

Persistence/Degradability
Not expected to cause long-term adverse effects in the aquatic environment.

Bioaccumulation/Accumulation
Product is not expected to bioaccumulate.

Mobility in Environmental Media
No information available.

Other Adverse Effects
No additional information available.

*** Section 13 - Disposal Considerations ***

Disposal Instructions
Dispose in accordance with federal, state, provincial, and local regulations. Regulations may also apply to empty containers. Contact Safety-Kleen regarding proper recycling or disposal.

US EPA Waste Number & Descriptions
Material, if discarded, is not expected to be a characteristic hazardous waste under RCRA. Based on available data, this information applies to the product as supplied to the user. Processing, use, or contamination by the user may change the waste code applicable to the disposal of this product.

*** Section 14 - Transportation Information ***

Emergency Response Guide Number
128.

DOT Shipping Name: Combustible liquid, n.o.s. (Petroleum distillates, hydrotreated light)
UN/NA #: NA 1993 Hazard Class: Combustible liquid Packing Group: III
Required Labels: None

TDG Not regulated as a dangerous good for transportation.

IATAN Information
No Classification Assigned.

IMDG Information
No Classification Assigned.

*** Section 15 - Regulatory Information ***

Volatile Organic Compounds (As Regulated)
CARB/OTC VOC: 1.12 WT%; 0.09 LB/US gal; 10.8 g/L
SCAQMD VOC: 5.12 WT%; 0.41 LB/US gal; 49.2 g/L
Product does not contain photochemically reactive solvent
Product Vapor Pressure@ 20°C = 17.5 mm HG (approx.)

SARA Sections 311/312
This product poses the following health hazard(s) as defined in 40 CFR Part 370 and is subject to the requirements of sections 311 and 312 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA):
Immediate (Acute) Health Hazard
SARA 302/304
Component Analysis
Based on the ingredients listed in SECTION 2, this product does not contain any "extremely hazardous substances" listed pursuant to Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) Section 302 or Section 304 as identified in 40 CFR Part 355, Appendix A and B.

SARA Section 313
This product does not contain "toxic" chemical(s) subject to the requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR Part 372.

CERCLA
Component Analysis
This product does not contain any "hazardous substance" listed under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) in 40 CFR Part 302, Table 302.4.

TSCA
All the components of this product are listed on, or are automatically included as "naturally occurring chemical substances" on, or are exempted from the requirement to be listed on, the TSCA Inventory.

Component Analysis

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>TSCA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum distillates, hydrotreated light</td>
<td>64742-47-8</td>
<td>Yes</td>
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<td>Alcohols, C9-11, ethoxylated</td>
<td>68439-46-3</td>
<td>Yes</td>
</tr>
</tbody>
</table>

State Regulations
This product does not contain detectable amounts of any chemical known to the State of California to cause cancer, birth defects, or other reproductive harm.

U.S. State Regulations
None of this product's components are listed on the state lists from CA, MA, MN, NJ or PA.

Canadian Regulations
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all information required by the CPR.

Component Analysis

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>CAN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum distillates, hydrotreated light</td>
<td>64742-47-8</td>
<td>DSL</td>
</tr>
<tr>
<td>Alcohols, C9-11, ethoxylated</td>
<td>68439-46-3</td>
<td>DSL</td>
</tr>
</tbody>
</table>

Canadian WHMIS Information
Not controlled

Canadian Environmental Protection Act (CEPA)
All the components of this product are listed on, or are automatically included as "substance occurring in nature" on, or are exempted from the requirements to be listed on, the Canadian Domestic Substances List (DSL).

*** Section 16 - Other Information ***

Label/Other Information
Not available.

Revision Information
Update to new MSDS format.

Disclaimer
User assumes all risks incident to the use of this (these) product(s). To the best of our knowledge, the information contained herein is accurate. However, Safety-Kleen assumes no liability whatsoever for the accuracy or completeness of the information contained herein. No representations or warranties, either express or implied, or merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to information or the product to which information refers. The data contained on this sheet apply to the product(s) as supplied to the user.