Material Safety Data Sheet

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

**Product Name:** KRESTO® & KRESTO® Heavy Duty Hand Cleaner

**Product Use:** Hand Cleanser

**Manufacturer Information**

<table>
<thead>
<tr>
<th>Evonik Corporation</th>
<th>Non-Emergency # 800-242-2271</th>
</tr>
</thead>
<tbody>
<tr>
<td>2401 Doyle Street</td>
<td>Emergency # (800) 424-9300 CHEMTREC (North America)</td>
</tr>
<tr>
<td>Greensboro, NC 27406</td>
<td>Emergency # (703) 527-3887 CHEMTREC (International, call collect)</td>
</tr>
</tbody>
</table>

Emergency telephone numbers are to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving the product. All Non-emergency questions should be directed to the Toll Free, Non-Emergency number above.

**Section 2 - Hazards Identification**

**Emergency Overview**

No particular hazards known.

**Potential Health Effects: Eyes**

This product may cause slight irritation to the eyes.

**Potential Health Effects: Skin**

None.

**Potential Health Effects: Ingestion**

Seek medical attention.

**Potential Health Effects: Inhalation**

Prolonged inhalation may cause irritation and respiratory tract discomfort.

**HMIS Ratings:**

- Health: 1
- Fire: 1
- Reactivity: 0
- Pers. Prot.: None required.

**Hazard Scale:**

0 = Minimal  1 = Slight  2 = Moderate  3 = Serious  4 = Severe  * = Chronic hazard

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

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Component</th>
</tr>
</thead>
<tbody>
<tr>
<td>52-51-7</td>
<td>1,3-Propanediol,2-bromo-2-nitro-</td>
</tr>
</tbody>
</table>

**Component Information/Information on Non-Hazardous Components**

This product is a cosmetic intended for personal use in the workplace and is thus regulated by FDA. See container label regarding proper handling and use of this product. Ingredients are listed in descending order of concentration on the container label. For OSHA workplace hazards, investigate and read and understand component MSDS’s before manufacturing. Toxic Substances Control Act (TSCA): Exempt Workplace Hazardous Materials Information System (WHIMS-Canada): Exempt-cosmetic hand cleanser
*** Section 4 - First Aid Measures ***

First Aid: Eyes
In case of contact, immediately flush eyes with large amounts of water, continuing to flush for 15 minutes. If irritation persists get medical attention.

First Aid: Skin
Intended as a cosmetic hand cleaner.

First Aid: Ingestion
If material is swallowed, get medical attention or advice.

First Aid: Inhalation
If symptoms are experienced, remove source of contamination or move victim to fresh air.

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

General Fire Hazards
None.

Upper Flammable Limit (UFL): Not determined
Lower Flammable Limit (LFL): Not determined
Method Used: Estimated
Flash Point: >200°F
Flammability Classification: Not determined
Auto Ignition: Not determined

Hazardous Combustion Products
None identified.

Extinguishing Media
Dry chemical, foam, carbon dioxide, water fog.

Fire Fighting Equipment/Instructions
Firefighters should wear self-contained air supplied breathing apparatus in enclosed areas or in areas of heavy smoke or fumes.

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

*** Section 6 - Accidental Release Measures ***

Containment Procedures
Absorb spill with inert material.

Clean-Up Procedures
Absorb spill with inert material. Shovel material into appropriate container for disposal. Flush small residuals to the drain for normal biological wastewater treatment.

Evacuation Procedures
None.

Special Procedures
None.

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

Handling Procedures
Keep container closed. See container label for proper use.
Storage Procedures
Protect from freezing or extreme heat.

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

Exposure Guidelines
A: General Product Information
FDA regulated. For OSHA workplace hazards, investigate and read and understand component MSDS’s before manufacturing.

B: Component Exposure Limits
No information is available.

Engineering Controls
None necessary.

PERSONAL PROTECTIVE EQUIPMENT
Personal Protective Equipment: Eyes/Face
Avoid eye contact.

Personal Protective Equipment: Skin
None.

Personal Protective Equipment: Respiratory
Not required for product end use.

Personal Protective Equipment: General
Obey reasonable safety precautions and practice good housekeeping.

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

| Appearance: | Beige paste |
| Physical State: | liquid (Emulsion) |
| Vapor Pressure: | 0.07 mm Hg |
| Boiling Point: | >212 °F |
| Solubility (H2O): | approximately 25% soluble in water |
| Evaporation Rate: | <1 |

| Odor: | perfume fragrance (0.1-1%) |
| pH: | 5.2 – 5.8 |
| Vapor Density: | Not Established |
| Melting Point: | 32° F |
| Specific Gravity: | 1.05 g/cc³ minimum |
| Flash Point: | >200°F (Estimated) |
| Percent Volatile: | 0% (Federal); LVP-VOC only (California) |

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

Chemical Stability
Stable under usual application conditions.

Chemical Stability: Conditions to Avoid
None.

Incompatibility
None identified.

Hazardous Decomposition
None identified.

Hazardous Polymerization
Hazardous polymerization will not occur.
*** Section 11 - Toxicological Information ***

Acute and Chronic Toxicity
A: General Product Information
Adverse effects on human health are not to be expected in normal use.

B: Acute Toxicity-LD50/LC50
No LD50/LC50's are available for this product's components.

Carcinogenicity
A: General Product Information
Not listed by ACGIH, IARC, NIOSH, NTP OR OSHA.

B: Component Carcinogenicity
No information is available.

Other Toxicological Information
None.

*** Section 12 - Ecological Information ***

Ecotoxicity
A: General Product Information
No information available.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity
No information available.

Environmental Fate
No information available.

*** Section 13 - Disposal Considerations ***

US EPA Waste Number & Descriptions
A: General Product Information
Controlled release of diluted product into a biological wastewater treatment plant.

B: Component Waste Numbers
No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions
Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

*** Section 14 - Transportation Information ***

International Transportation Regulations
This product is not regulated as a hazardous material by the United States (DOT) or Canadian (TDG) transportation regulations.

*** Section 15 - Regulatory Information ***

US Federal Regulations
A: General Product Information
Not regulated under the Clean Air Act, Not subject to TSCA regulation. Regulated as a personal use cosmetic by FDA.

B: Clean Air Act
No information is available.

C: Component Analysis
No information is available.
D: Food & Drug Administration
None of the components in this product are listed by the FDA under regulations for Direct and Indirect Food Additives.

State Regulations
A: General Product Information
California: Volatiles are LVP – VOC’s, fragrance is <2% exempt.

B: Component Analysis - State
None of this product’s components are listed on the state lists from CA, FL, MA, MN, NJ, or PA.

Component Analysis - WHMIS IDL
No components are listed in the WHMIS IDL

Component Analysis Inventory

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>TSCA</th>
<th>CAN</th>
<th>EEC</th>
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<tbody>
<tr>
<td>1,3-Propanediol,2-bromo-2-nitro-</td>
<td>52-51-7</td>
<td>Exempt</td>
<td>DSL</td>
<td>EINECS</td>
</tr>
</tbody>
</table>

*** Section 16 - Other Information ***

Other Information
The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text.

MSDS History
This is a revised MSDS. Section's 2 & 3 have been revised to reflect proposed 2004 ANSI Standards format recommendations for 2007 implementation.
1/14/09 Reviewed with no changes.
6/21/2012 Document updated

Key/Legend
LVP-VOC: Low Vapor Pressure - Volatile Organic Compound (California)

Contact: Product Compliance Officer

Contact Phone: (800) 242-2271

This is the end of MSDS #: SK-117D