Kindest Kare® Foaming Handwash
Safety Data Sheet
According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Date of issue: 11/30/2015
Version: 1.0

SECTION 1: Identification

1.1. Product Identifier
Product Form: Mixture
Product Name: Kindest Kare® Foaming Handwash
Product Code: 1152

1.2. Intended Use of the Product
Use of the substance/mixture: Foaming Handwash. For professional use only.

1.3. Name, Address, and Telephone of the Responsible Party
Company
STERIS Corporation
Official Mailing Address:
P.O. Box 147
St. Louis, MO 63166 USA

Street Address:
7501 Page Avenue
St. Louis, MO 63133 USA

Telephone Number for Information: 1-800-548-4873 (Customer Service-Healthcare Products)
web: www.steris.com
e-mail: asksteris_msds@steris.com

1.4. Emergency Telephone Number
Emergency Number: 1-314-535-1395 or CHEMTREC: 1-800-424-9300

SECTION 2: Hazards Identification

2.1. Classification of the Substance or Mixture
Classification (GHS-US)
Eye Irrit. 2A - H319

Full text of H-phrases: see section 16

2.2. Label Elements – This label is regulated by the FDA and is exempt from GHS labeling.
FDA Product Labeling: This product is regulated by the FDA, therefore, the requirements for product labeling do not fall under the jurisdiction of the OSHA Hazard Communication Standard according to 29 CFR 1910.1200.

Hazard Pictograms (GHS-US): 

![Hazard Pictogram](image)

Signal Word (GHS-US): Warning

Hazard Statements (GHS-US): H319 - Causes serious eye irritation.

Precautionary Statements (GHS-US): P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 - If eye irritation persists: Get medical advice/attention.

2.3. Other Hazards
Other Hazards: May cause an allergic reaction in sensitive individuals.

2.4. Unknown Acute Toxicity (GHS-US)
No data available

SECTION 3: Composition/Information On Ingredients

3.1. Substance
Not applicable

3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification (GHS-US)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,4-Pentanediol, 2-methyl-</td>
<td>(CAS No) 107-41-5</td>
<td>5</td>
<td>Skin Irrit. 2, H315</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Irrit. 2A, H319</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Acute Tox. 4 (Oral), H302</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Skin Corr. 1A, H314</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Dam. 1, H318</td>
</tr>
</tbody>
</table>

*Used only as a pH adjustment if needed

Full text of H-phrases: see section 16

SECTION 4: First Aid Measures

4.1. Description of First Aid Measures
First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

First-aid Measures After Inhalation: When symptoms occur: go into open air and ventilate suspected area. Call a POISON CENTER or doctor/physician if you feel unwell. First-aid Measures After Skin Contact: Seek medical attention immediately in the rare case that irritation or rash develops or persists. First-aid Measures After Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Obtain medical attention if irritation persists. First-aid Measures After Ingestion: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed
Symptoms/Injuries: Causes serious eye irritation. Symptoms/Injuries After Inhalation: None expected under normal conditions of use. Symptoms/Injuries After Skin Contact: None expected under normal conditions of use. Symptoms/Injuries After Eye Contact: Causes serious eye irritation. Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects. Chronic Symptoms: None known.

4.3. Indication of any immediate medical attention and special treatment needed
If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing Media
Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire. Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special Hazards Arising From The Substance or Mixture
Fire Hazard: Not considered flammable but will burn at high temperatures. Explosion Hazard: Product is not explosive. Reactivity: Hazardous reactions will not occur under normal conditions.

5.3. Advice for Firefighters
Precautionary Measures Fire: Exercise caution when fighting any chemical fire. Under fire conditions, hazardous fumes will be present. Fighting Instructions: Use water spray or fog for cooling exposed containers. Remove containers from fire area if this can be done without risk. Do not breathe fumes from fires or vapors from decomposition. Do not allow run-off from firefighting to enter drains or water courses. Protection During Fighting: Do not enter fire area without proper protective equipment, including respiratory protection. Hazardous Combustion Products: Carbon oxides (CO, CO$_2$), Sodium oxides. Potassium oxides. Irritating fumes.

SECTION 6: Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures
General Measures: Handle in accordance with good industrial hygiene and safety practice.

6.1.1. For Non-emergency Personnel
Protective Equipment: Use appropriate personal protection equipment (PPE).

6.1.2. For Emergency Responders
Protective Equipment: Use appropriate personal protection equipment (PPE).

6.2. Environmental Precautions
Prevent entry to sewers and public waters.

6.3. Methods and Material for Containment and Cleaning Up
For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material, then place in suitable container. If spilled directly onto the ground, remove sufficient soil to ensure material is fully recovered. Contact competent authorities after a spill.

6.4. Reference to Other Sections
See Section 8: Exposure Controls and Personal Protection.

SECTION 7: Handling And Storage

7.1. Precautions for Safe Handling
Additional Hazards When Processed: Practice good housekeeping - spillage can be slippery on smooth surface either wet or dry. Precautions for Safe Handling: Avoid all contact with eyes. Do not handle until all safety precautions have been read and understood. Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

7.3. Specific End Use(s)
Foaming Handwash. For professional use only.

SECTION 8: Exposure Controls/Personal Protection

8.1. Control Parameters
For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.
### SECTION 8: Exposure Controls

<table>
<thead>
<tr>
<th>Source</th>
<th>Ceiling (mg/m³)</th>
<th>Ceiling (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>USA ACGIH</td>
<td></td>
<td></td>
</tr>
<tr>
<td>USA NIOSH</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alberta OEL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>British Columbia OEL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>New Brunswick OEL</td>
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<td></td>
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<tr>
<td>New Brunswick OEL</td>
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<td></td>
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<tr>
<td>Newfoundland &amp; Labrador OEL</td>
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<td></td>
</tr>
<tr>
<td>Nova Scotia OEL</td>
<td></td>
<td></td>
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<tr>
<td>Nunavut OEL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Northwest Territories OEL</td>
<td></td>
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<tr>
<td>Prince Edward Island OEL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Québec OEL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Saskatchewan OEL</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### 8.2 Exposure Controls

**Appropriate Engineering Controls**: Not generally required. Site-specific risk assessments should be conducted to determine the appropriate exposure control measures.

**Personal Protective Equipment**: Not generally required. The use of personal protective equipment may be necessary as conditions warrant.

**Other Information**: When using, do not eat, drink or smoke.

### SECTION 9: Physical And Chemical Properties

#### 9.1 Information on Basic Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear to light yellow</td>
</tr>
<tr>
<td>Odor</td>
<td>Citrus floral</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>≈ 6.5</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting Point</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash Point</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition Temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative Vapor Density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative Density</td>
<td>No data available</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>≈ 1.008 g/ml</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble in water</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive Properties</td>
<td>Product is not explosive</td>
</tr>
<tr>
<td>Explosion Data – Sensitivity to Mechanical Impact</td>
<td>Not expected to present an explosion hazard due to mechanical impact</td>
</tr>
<tr>
<td>Explosion Data – Sensitivity to Static Discharge</td>
<td>Not expected to present an explosion hazard due to static discharge</td>
</tr>
</tbody>
</table>

#### 9.2 Other Information

No additional information available

### SECTION 10: Stability And Reactivity

**10.1 Reactivity**: Hazardous reactions will not occur under normal conditions.

**10.2 Chemical Stability**: Stable under normal conditions.

**10.3 Possibility of Hazardous Reactions**: Hazardous polymerization will not occur.
10.4 Conditions to Avoid:
Direct sunlight. Extremely high or low temperatures. Incompatible materials.

10.5 Incompatible Materials:

10.6 Hazardous Decomposition Products:

SECTION 11: Toxicological Information

11.1 Information On Toxicological Effects
Acute Toxicity: Not classified

Kindest Kare® Foaming Handwash

<table>
<thead>
<tr>
<th>LD₅₀ Oral Rat</th>
<th>&gt; 2000 mg/kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD₅₀ Dermal Rat</td>
<td>&gt; 2000 mg/kg</td>
</tr>
</tbody>
</table>

Additional information: The estimated acute oral and dermal toxicity (LD₅₀) values for the handwash are both >2000 mg/kg for the rat. No acute inhalation LC₅₀ value can be estimated for the handwash, but the handwash is not considered to be harmful by inhalation. The handwash is not considered classifiable under GHS for acute oral, dermal, or inhalation toxicity.

2,4-Pentanediol, 2-methyl- (107-41-5)

<table>
<thead>
<tr>
<th>LD₅₀ Oral Rat</th>
<th>3692 mg/kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD₅₀ Dermal Rat</td>
<td>&gt; 2000 mg/kg</td>
</tr>
<tr>
<td>LC₅₀ Inhalation Rat</td>
<td>310 mg/m³ (Exposure time: 1 h)</td>
</tr>
</tbody>
</table>

Skin Corrosion/Irritation: Not classified as a primary skin irritant.

pH: ≈ 6.5

Serious Eye Damage/Irritation: Causes serious eye irritation.

pH: ≈ 6.5

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Teratogenicity: Not classified

Carcinogenicity: Not classified

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: None expected under normal conditions of use.

Symptoms/Injuries After Skin Contact: None expected under normal conditions of use.

Symptoms/Injuries After Eye Contact: Causes serious eye irritation.

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: None known.

SECTION 12: Ecological Information

12.1 Toxicity

2,4-Pentanediol, 2-methyl- (107-41-5)

<table>
<thead>
<tr>
<th>LC₅₀ Fish 1</th>
<th>10500 (10500 - 11000) mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC₅₀ Daphnia 1</td>
<td>2700 (2700 - 3700) mg/l (Exposure time: 48 h - Species: Daphnia magna)</td>
</tr>
<tr>
<td>LC₅₀ 50 Fish 2</td>
<td>10000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])</td>
</tr>
</tbody>
</table>

12.2 Persistence and Degradability

Kindest Kare® Foaming Handwash

Persistence and Degradability: Not established.

12.3 Bioaccumulative Potential

Kindest Kare® Foaming Handwash

Bioaccumulative Potential: Not established.

2,4-Pentanediol, 2-methyl- (107-41-5)

Log Pow: < 0.14

12.4 Mobility in Soil

No additional information available

12.5 Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: Disposal Considerations

13.1 Waste treatment methods

Sewage Disposal Recommendations: This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

SECTION 14: Transport Information

14.1 In Accordance with DOT
Kindest Kare® Foaming Handwash
Safety Data Sheet
According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Not regulated for transport

SECTION 14: Transport Information

- In Accordance with IMDG
- In Accordance with IATA
- In Accordance with TDG

SECTION 15: Regulatory Information

15.1 US Federal Regulations
- Kindest Kare® Foaming Handwash
- SARA Section 311/312 Hazard Classes: Immediate (acute) health hazard

15.2 US State Regulations
- 2,4-Pentanediol, 2-methyl- (107-41-5)
  - U.S. - Massachusetts - Right To Know List
  - U.S. - New Jersey - Right to Know Hazardous Substance List
  - U.S. - Pennsylvania - RTK (Right to Know) List

15.3. Canadian Regulations
- Listed on the Canadian DSL (Domestic Substances List)
- Listed on the Canadian IDL (Ingredient Disclosure List)
- IDL Concentration 1%

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all of the information required by HPR.

SECTION 16: Other Information

Revision date: 11/30/2015
This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:
- Eye Irrit. 2A: Serious eye damage/eye irritation Category 2A
- Skin Irrit. 2: Skin corrosion/irritation Category 2
- H319: Causes serious eye irritation

NFPA Health Hazard: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.
NFPA Fire Hazard: 0 - Materials that will not burn.
NFPA Reactivity: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

Party Responsible for the Preparation of This Document
STERIS Corporation

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.