

### SECTION 1: Identification

#### 1.1. Product Identifier

Product Form: Mixture  
 Product Name: Kindest Kare<sup>®</sup> 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](http://www.steris.com)  
 email: [asksteris\\_msds@steris.com](mailto: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) :



GHS07

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

Name	Product identifier	%	Classification (GHS-US)
2,4-Pentanediol, 2-methyl-	(CAS No) 107-41-5	5	Skin Irrit. 2, H315 Eye Irrit. 2A, H319
Potassium hydroxide	(CAS No) 1310-58-3	*Used only as a pH adjustment if needed	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314 Eye Dam. 1, H318

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).

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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.

Firefighting 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 Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Carbon oxides (CO, CO<sub>2</sub>). 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).

Emergency Procedures: Evacuate unnecessary personnel.

#### 6.1.2. For Emergency Responders

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Ventilate area. Evacuate unnecessary personnel. Stop leak if safe to do so.

### 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

Technical Measures: Store according to competent authority. Comply with applicable regulations.

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Incompatible Products: Strong acids. Strong bases. Strong oxidizers. Reducing agents.

### 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.

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2,4-Pentanediol, 2-methyl- (107-41-5)		
USA ACGIH	ACGIH Ceiling (ppm)	25 ppm
USA NIOSH	NIOSH REL (ceiling) (mg/m <sup>3</sup> )	125 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (ceiling) (ppm)	25 ppm
Alberta	OEL Ceiling (mg/m <sup>3</sup> )	121 mg/m <sup>3</sup>
Alberta	OEL Ceiling (ppm)	25 ppm
British Columbia	OEL Ceiling (ppm)	25 ppm
Manitoba	OEL Ceiling (ppm)	25 ppm
New Brunswick	OEL Ceiling (mg/m <sup>3</sup> )	121 mg/m <sup>3</sup>
New Brunswick	OEL Ceiling (ppm)	25 ppm
Newfoundland & Labrador	OEL Ceiling (ppm)	25 ppm
Nova Scotia	OEL Ceiling (ppm)	25 ppm
Nunavut	OEL Ceiling (mg/m <sup>3</sup> )	120 mg/m <sup>3</sup>
Nunavut	OEL Ceiling (ppm)	25 ppm
Northwest Territories	OEL Ceiling (mg/m <sup>3</sup> )	120 mg/m <sup>3</sup>
Northwest Territories	OEL Ceiling (ppm)	25 ppm
Ontario	OEL Ceiling (ppm)	25 ppm
Prince Edward Island	OEL Ceiling (ppm)	25 ppm
Québec	PLAFOND (mg/m <sup>3</sup> )	121 mg/m <sup>3</sup>
Québec	PLAFOND (ppm)	25 ppm
Saskatchewan	OEL Ceiling (ppm)	25 ppm

### 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

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

### 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.

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### 10.4 Conditions to Avoid:

Direct sunlight. Extremely high or low temperatures. Incompatible materials.

### 10.5 Incompatible Materials:

Strong acids. Strong bases. Strong oxidizers. Reducing agents.

### 10.6 Hazardous Decomposition Products:

Carbon oxides (CO, CO<sub>2</sub>). Sodium oxides. Potassium oxides. Irritating fumes.

## SECTION 11: Toxicological Information

### 11.1. Information On Toxicological Effects

Acute Toxicity: Not classified

Kindest Kare <sup>®</sup> Foaming Handwash	
LD50 Oral Rat	> 2000 mg/kg
LD50 Dermal Rat	> 2000 mg/kg
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)

LD50 Oral Rat	3692 mg/kg
LD50 Dermal Rat	> 2000 mg/kg
LC50 Inhalation Rat	310 mg/m <sup>3</sup> (Exposure time: 1 h)

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)	
LC50 Fish 1	10500 (10500 - 11000) mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	2700 (2700 - 3700) mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC 50 Fish 2	10000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])

### 12.2. Persistence and Degradability

Kindest Kare <sup>®</sup> Foaming Handwash	
Persistence and Degradability	Not established.

### 12.3. Bioaccumulative Potential

Kindest Kare <sup>®</sup> 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

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Not regulated for transport

### 14.2 In Accordance with IMDG

Not regulated for transport

### 14.3 In Accordance with IATA

Not regulated for transport

### 14.4 In Accordance with TDG

Not regulated for transport

## SECTION 15: Regulatory Information

### 15.1 US Federal Regulations

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SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
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### 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

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

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.

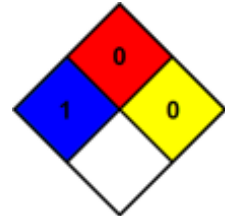
## SECTION 16: Other Information

Revision date : 11/30/2015  
Other Information : 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.*

STERIS SDS NA, WHMIS, GHS