



# Alcare Plus<sup>®</sup> Foamed Antiseptic Handrub

## Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations  
Date of issue: 05/12/2015

Version: 1.0

### SECTION 1: Identification

#### 1.1. Product Identifier

Product Form: Mixture  
Product Name: Alcare Plus<sup>®</sup>  
Foamed Antiseptic Handrub  
Product Code: 6399

#### 1.2. Intended Use of the Product

Use of the substance/mixture: Hand Sanitizer. 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)

Flam. Aerosol 2 H223, H229

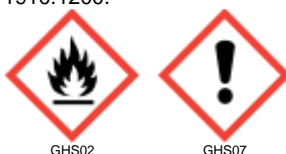
Eye Irrit. 2A H319

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) :



Signal Word (GHS-US) :

Warning

Hazard Statements (GHS-US) :

H223 - Flammable aerosol.  
H229 - Pressurized containers; may burst if heated.  
H319 - Causes serious eye irritation.

Precautionary Statements (GHS-US) :

P210 - Keep away from heat, sparks, open flames, hot surfaces. - No smoking.  
P251 - Pressurized container: Do not pierce or burn, even after use.  
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.  
P370+P378 - In case of fire: Use appropriate media to extinguish.  
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 49 °C/120 °F.  
P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

#### 2.3. Other Hazards

Other Hazards: No additional information available

#### 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) |
|------|--------------------|---|-------------------------|
|------|--------------------|---|-------------------------|

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|                    |                  |                             |   |
|--------------------|------------------|-----------------------------|---|
| Ethyl alcohol      | (CAS No) 64-17-5 | 30-60<br>(62% by<br>volume) | Fam. Liq. 2, H225<br>Eye Irrit. 2A, H319                |
| 1,1-Difluoroethane | (CAS No) 75-37-6 | 1-5                         | Simple Asphy<br>Fam. Gas 1, H220<br>Liquefied gas, H280 |
| Isobutane          | (CAS No) 75-28-5 | 1-5                         | Simple Asphy<br>Fam. Gas 1, H220<br>Liquefied gas, H280 |

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).

First-aid Measures After Inhalation: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

First-aid Measures After Skin Contact: Obtain medical attention if irritation 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. Continue rinsing. Obtain medical attention.

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 irritation.

Symptoms/Injuries After Inhalation: Not expected to be a primary route of exposure. May cause respiratory irritation.

Symptoms/Injuries After Skin Contact: Not a primary skin irritant.

Symptoms/Injuries After Eye Contact: Direct spray will cause eye irritation.

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

Chronic Symptoms: None expected under normal conditions of use.

### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If you feel unwell, seek medical advice (show the label where possible).

## SECTION 5: Fire-Fighting Measures

### 5.1. Extinguishing Media

Suitable Extinguishing Media: Dry powder, alcohol-resistant foam, water in large amounts, carbon dioxide.

Unsuitable Extinguishing Media: Do not use a heavy water stream. A heavy water stream may spread burning liquid.

### 5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Highly flammable liquid and vapor. Extremely flammable aerosol.

Explosion Hazard: May form flammable/explosive vapor-air mixture.

Reactivity: Reacts with strong oxidants causing fire and explosion hazard.

### 5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Do not allow run-off from fire fighting to enter drains or water sources. Do not breathe fumes from fires or vapours from decomposition. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

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>).

## SECTION 6: Accidental Release Measures

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Use special care to avoid static electric charges. Keep away from heat, sparks, open flames, hot surfaces. – No smoking.

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: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

### 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. Do not take up in combustible material such as: saw dust or cellulosic material. Use only non-sparking tools.

### 6.4. Reference to Other Sections

See Section 8, Exposure Controls and Personal Protection. See Section 13, Disposal Considerations.

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## SECTION 7: Handling And Storage

### 7.1. Precautions for Safe Handling

Additional Hazards When Processed: Handle empty containers with care because residual vapors are flammable. Pressurized container: Do not pierce or burn, even after use.

Precautions for Safe Handling: Use only non-sparking tools. Keep away from heat, sparks, open flames, hot surfaces. – No smoking. Wear recommended personal protective equipment.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Not applicable

Storage Conditions: Store and use at 55-85°F (13-29°C), but not above 120°F (49°C). Close container after use. Store at normal room temperature for 24-48 hours following any prolonged exposure to the cold.

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

Incompatible Materials: Heat sources.

### 7.3. Specific End Use(s) No additional information available

## 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.

| Ethyl alcohol (64-17-5) |                                      |  |
|-------------------------|--------------------------------------|--|
| USA ACGIH               | ACGIH STEL (ppm)                     | 1000 ppm   |
| USA ACGIH               | ACGIH chemical category              | Confirmed Animal Carcinogen with Unknown Relevance to Humans |
| USA OSHA                | OSHA PEL (TWA) (mg/m <sup>3</sup> )  | 1900 mg/m <sup>3</sup>                                       |
| USA OSHA                | OSHA PEL (TWA) (ppm)                 | 1000 ppm   |
| USA NIOSH               | NIOSH REL (TWA) (mg/m <sup>3</sup> ) | 1900 mg/m <sup>3</sup>                                       |
| USA NIOSH               | NIOSH REL (TWA) (ppm)                | 1000 ppm   |
| USA IDLH                | US IDLH (ppm)                        | 3300 ppm (10% LEL)   |
| Isobutane (75-28-5)     |                                      |  |
| USA ACGIH               | ACGIH STEL (ppm)                     | 1000 ppm   |
| USA NIOSH               | NIOSH REL (TWA) (mg/m <sup>3</sup> ) | 1900 mg/m <sup>3</sup>                                       |
| USA NIOSH               | NIOSH REL (TWA) (ppm)                | 800 ppm  |

### 8.2. Exposure Controls

Appropriate Engineering Controls : Ensure all national/local regulations are observed. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Personal Protective Equipment : Not applicable.

Materials for Protective Clothing : Not required under normal use conditions.

Hand Protection : Not applicable.

Eye Protection : Not applicable.

Skin and Body Protection : Wear suitable protective clothing.

Respiratory Protection : Normal room ventilation.

Consumer Exposure Controls : Do not eat, drink or smoke during use.

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                      | : White Foam (Aerosol) |
| Odor                            | : Mild alcohol odor    |
| Odor Threshold                  | : No data available    |
| pH                              | : No data available    |
| 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    |

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|   |   |
|---|---|
| Solubility  | : Completely soluble in water   |
| Partition coefficient: n-octanol/water            | : No data available   |
| Viscosity   | : No data available   |
| 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:

Reacts with strong oxidants causing fire and explosion hazard.

#### 10.2 Chemical Stability:

Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

#### 10.3 Possibility of Hazardous Reactions:

Hazardous polymerization will not occur.

#### 10.4 Conditions to Avoid:

Direct sunlight, extremely high or low temperatures, open flames, sources of ignition and incompatible materials. Do not freeze.

#### 10.5 Incompatible Materials:

Strong acids. Strong bases. Strong oxidizers.

#### 10.6 Hazardous Decomposition Products:

Carbon oxides (CO, CO<sub>2</sub>).

### SECTION 11: Toxicological Information

#### 11.1. Information On Toxicological Effects

Acute Toxicity: Not classified

| Alcare Plus <sup>®</sup><br>Foamed Antiseptic Handrub |               |
|---|---------------|
| LD50 Oral Rat   | >5,000 mg/kg  |
| Ethyl alcohol (64-17-5)                               |               |
| LD50 Oral Rat   | 10470 mg/kg   |
| LD50 Dermal Rat                                       | 20 ml/kg      |
| LC50 Inhalation Rat                                   | 124.7 mg/l/4h |
| Isobutane (75-28-5)                                   |               |
| LC50 Inhalation Rat                                   | 658 mg/l/4h   |

Skin Corrosion/Irritation: Not a primary skin irritant.

Serious Eye Damage/Irritation: Causes serious eye irritation.

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Teratogenicity: No data available

Carcinogenicity: Not classified

| Ethyl alcohol (64-17-5)                   |   |
|---|---|
| OSHA Hazard Communication Carcinogen List | In OSHA Hazard Communication Carcinogen list. |

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: Not expected to be a primary route of exposure. May cause respiratory irritation.

Symptoms/Injuries After Skin Contact: Repeated or prolonged skin contact may cause dermatitis and defatting.

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 expected under normal conditions of use.

### SECTION 12: Ecological Information

#### 12.1. Toxicity

Ecology - General : Not classified.

| Ethyl alcohol (64-17-5) |  |
|-------------------------|--|
| LC50 Fish 1             | 12.0 - 16.0 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static]) |
| EC50 Daphnia 1          | 9268 - 14221 mg/l (Exposure time: 48 h - Species: Daphnia magna)               |
| LC 50 Fish 2            | > 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])       |

#### 12.2. Persistence and Degradability

| Alcare <sup>®</sup> Plus<br>Foamed Antiseptic Handrub |                  |
|---|------------------|
| Persistence and Degradability                         | Not established. |

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|                                |                  |
|--------------------------------|------------------|
| <b>Ethyl alcohol (64-17-5)</b> |                  |
| Persistence and Degradability  | Not established. |

#### 12.3. Bioaccumulative Potential

|                                  |                  |
|----------------------------------|------------------|
| <b>Alcare Plus<sup>®</sup></b>   |                  |
| <b>Foamed Antiseptic Handrub</b> |                  |
| Bioaccumulative Potential        | Not established. |

|                                |                  |
|--------------------------------|------------------|
| <b>Ethyl alcohol (64-17-5)</b> |                  |
| Log Pow                        | -0.32            |
| Bioaccumulative Potential      | Not established. |

|                            |                 |
|----------------------------|-----------------|
| <b>Isobutane (75-28-5)</b> |                 |
| BCF fish 1                 | 1.57 - 1.97     |
| Log Pow                    | 2.88 (at 20 °C) |

#### 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

Waste Disposal Recommendations: Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional Information: Handle empty containers with care because residual vapors are flammable. Do not puncture or incinerate container.

### SECTION 14: Transport Information

#### 14.1 In Accordance with DOT

Proper Shipping Name : AEROSOLSflammable, (each not exceeding 1 L capacity)  
Hazard Class : 2.1  
Identification Number : UN1950  
Label Codes : 2.1  
LTD QTY  
ERG Number : 126



#### 14.2 In Accordance with IMDG

Proper Shipping Name : AEROSOLS  
Hazard Class : 2  
Identification Number : UN1950  
Label Codes : 2.1  
LTD QTY  
EmS-No. (Fire) : F-D  
EmS-No. (Spillage) : S-U



#### 14.3 In Accordance with IATA

Proper Shipping Name : AEROSOLS, FLAMMABLE  
Identification Number : UN1950  
Hazard Class : 2  
Label Codes : 2.1  
LTD QTY



ERG Code (IATA) : 10L  
Appropriate markings/labels not supplied on case – case requires full shipping name and flammable diamond.

#### 14.4 In Accordance with TDG

Proper Shipping Name : AEROSOLSflammable, (each not exceeding 1 L capacity)  
Hazard Class : 2.1  
Identification Number : UN1950  
Label Codes : 2.1  
LTD QTY  
ERG Number : 126



### SECTION 15: Regulatory Information

#### 15.1 US Federal Regulations

|                                     |  |
|-------------------------------------|--|
| <b>Alcare Plus<sup>®</sup></b>      |  |
| <b>Foamed Antiseptic Handrub</b>    |  |
| SARA Section 311/312 Hazard Classes | Fire hazard<br>Immediate (acute) health hazard |

|   |  |
|---|--|
| <b>Ethyl alcohol (64-17-5)</b>  |  |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |  |

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|   |
|---|
| <b>1,1-Difluoroethane (75-37-6)</b>                                       |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |

|   |
|---|
| <b>Isobutane (75-28-5)</b>  |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |

#### 15.2 US State Regulations

|  |
|--|
| <b>Ethyl alcohol (64-17-5)</b>                             |
| 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             |

|  |
|--|
| <b>1,1-Difluoroethane (75-37-6)</b>                        |
| U.S. - Massachusetts - Right To Know List                  |
| U.S. - New Jersey - Right to Know Hazardous Substance List |

|  |
|--|
| <b>Isobutane (75-28-5)</b>                                 |
| 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

Not applicable.

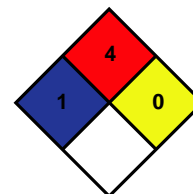
### SECTION 16: Other Information, Including Date Of Preparation Or Last Revision

Revision date : 05/12/2015  
 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      |
| Flam. Aerosol 1 | Flammable aerosol Category 1                       |
| Flam. Gas 1     | Flammable gases Category 1                         |
| Flam. Liq. 2    | Flammable liquids Category 2                       |
| Liquefied gas   | Gases under pressure Liquefied gas                 |
| Simple Asphy    | Simple Asphyxiant                                  |
| Skin Irrit. 2   | Skin corrosion/irritation Category 2               |
| H220            | Extremely flammable gas                            |
| H222            | Extremely flammable aerosol                        |
| H225            | Highly flammable liquid and vapor                  |
| H280            | Contains gas under pressure; may explode if heated |
| 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 : 4 - Will rapidly or completely vaporize at normal atmospheric pressure and temperature, or is readily dispersed in air and will burn readily  
 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.*

SDS NA, GHS