

# SAFETY DATA SHEET

## HILLYARD® Foaming Hand Sanitizer without Alcohol

Version	Revision Date:	MSDS Number:	Date of last issue: -
1.0	05.03.2015	71754-00001	Date of first issue: 05.03.2015

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### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : HILLYARD® Foaming Hand Sanitizer without Alcohol

Product code : HIL0126103

#### Manufacturer or supplier's details

Company name of supplier : HILLYARD INDUSTRIES, INC.

Address : 302 North Fourth Street  
St. Joseph, MO 64501

Telephone : 1-816-233-1321 EXT 8285

Emergency telephone : 1-800-424-9300

#### Recommended use of the chemical and restrictions on use

Recommended use : Antibacterial Soap

Restrictions on use : This is a personal care or cosmetic product that is safe for consumers and other users under normal and reasonably foreseeable use. Cosmetics and consumer products, specifically defined by regulations around the world, are exempt from the requirement of an SDS for the consumer. While this material is not considered hazardous, this SDS contains valuable information critical to the safe handling and proper use of the product for industrial workplace conditions as well as unusual and unintended exposures such as large spills. This SDS should be retained and available for employees and other users of this product. For specific intended-use guidance, please refer to the information provided on the package or instruction sheet.

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### SECTION 2. HAZARDS IDENTIFICATION

#### GHS Classification

Acute aquatic toxicity : Category 3

#### GHS Label element

Hazard Statements : H402 Harmful to aquatic life.

Precautionary Statements : **Prevention:**  
P273 Avoid release to the environment.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

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### Other hazards which do not result in classification

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Hazardous ingredients

Chemical Name	CAS-No.	Concentration (%)
Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides	68391-01-5	$\geq 0.1$ - $< 1$

## SECTION 4. FIRST AID MEASURES

If inhaled	: If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In case of skin contact	: Wash with water and soap as a precaution. Get medical attention if symptoms occur.
In case of eye contact	: Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
If swallowed	: If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	: None known.
Protection of first-aiders	: No special precautions are necessary for first aid responders.
Notes to physician	: Treat symptomatically and supportively.

## SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	: Water spray Alcohol-resistant foam Dry chemical Carbon dioxide (CO <sub>2</sub> )
Unsuitable extinguishing media	: None known.
Specific hazards during fire fighting	: Exposure to combustion products may be a hazard to health.
Hazardous combustion products	: No hazardous combustion products are known

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| Specific extinguishing methods                 | : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.<br>Use water spray to cool unopened containers.<br>Remove undamaged containers from fire area if it is safe to do so.<br>Evacuate area. |
| Special protective equipment for fire-fighters | : Wear self-contained breathing apparatus for firefighting if necessary.<br>Use personal protective equipment.  |
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### SECTION 6. ACCIDENTAL RELEASE MEASURES

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|---|---|
| Personal precautions, protective equipment and emergency procedures | : Follow safe handling advice and personal protective equipment recommendations.  |
| Environmental precautions   | : Discharge into the environment must be avoided.<br>Prevent further leakage or spillage if safe to do so.<br>Prevent spreading over a wide area (e.g. by containment or oil barriers).<br>Retain and dispose of contaminated wash water.<br>Local authorities should be advised if significant spillages cannot be contained.  |
| Methods and materials for containment and cleaning up               | : Soak up with inert absorbent material.<br>For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container.<br>Clean up remaining materials from spill with suitable absorbent.<br>Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.<br>Sections 13 and 15 of this SDS provide information regarding certain local or national requirements. |
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### SECTION 7. HANDLING AND STORAGE

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|-------------------------|---|
| Technical measures      | : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.   |
| Local/Total ventilation | : Use only with adequate ventilation.   |
| Advice on safe handling | : Handle in accordance with good industrial hygiene and safety practice.<br>Take care to prevent spills, waste and minimize release to the environment. |

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Hygiene measures	: Ensure that eye flushing systems and safety showers are located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.
Conditions for safe storage	: Keep in properly labeled containers. Store in accordance with the particular national regulations.
Materials to avoid	: Do not store with the following product types: Strong oxidizing agents

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### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

<b>Engineering measures</b>	: Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.
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#### Personal protective equipment

Respiratory protection	: No personal respiratory protective equipment normally required.
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Hand protection

Remarks	: Wash hands before breaks and at the end of workday.
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Eye protection	: Wear the following personal protective equipment: Safety glasses
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Skin and body protection	: Skin should be washed after contact.
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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Color	: clear, cloudy, Colorless to pale yellow
Odor	: soapy
Odor Threshold	: No data available
pH	: 5.5 - 8.5
Melting point/freezing point	: No data available
Initial boiling point and boiling range	: 95 °C

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Flash point	: > 100 °C
Evaporation rate	: No data available
Flammability (solid, gas)	: Not applicable
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapor pressure	: No data available
Relative vapor density	: No data available
Density	: 1 g/cm3
Solubility(ies) Water solubility	: soluble
Partition coefficient: n-octanol/water	: Not applicable
Autoignition temperature	: No data available
Decomposition temperature	: The substance or mixture is not classified self-reactive.
Viscosity Viscosity, kinematic	: 10 - 20 mm2/s (20 °C)
Explosive properties	: Not explosive
Oxidizing properties	: The substance or mixture is not classified as oxidizing.

### SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Not classified as a reactivity hazard.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Can react with strong oxidizing agents.
Conditions to avoid	: None known.
Incompatible materials	: Oxidizing agents
Hazardous decomposition products	: No hazardous decomposition products are known.

### SECTION 11. TOXICOLOGICAL INFORMATION

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Information on likely routes of exposure : Inhalation  
Skin contact  
Ingestion  
Eye contact

### Acute toxicity

Not classified based on available information.

### Ingredients:

**Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides:**

Acute oral toxicity : LD50 (Rat): 850 mg/kg

Acute dermal toxicity : LD50 (Rat): 2,300 mg/kg

### Skin corrosion/irritation

Not classified based on available information.

### Product:

Result: No skin irritation

### Ingredients:

**Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides:**

Species: Rabbit

Result: Corrosive after 3 minutes to 1 hour of exposure

Remarks: Based on data from similar materials

### Serious eye damage/eye irritation

Not classified based on available information.

### Ingredients:

**Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides:**

Species: Rabbit

Result: Irreversible effects on the eye

Remarks: Based on data from similar materials

### Respiratory or skin sensitization

Skin sensitization: Not classified based on available information.

Respiratory sensitization: Not classified based on available information.

### Product:

Assessment: Does not cause skin sensitization.

### Ingredients:

**Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides:**

Test Type: Buehler Test

Routes of exposure: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406

Result: negative

Remarks: Based on data from similar materials

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### Germ cell mutagenicity

Not classified based on available information.

#### Ingredients:

##### **Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides:**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471  
Result: negative  
Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)  
Species: Mouse  
Application Route: Ingestion  
Method: OECD Test Guideline 474  
Result: negative  
Remarks: Based on data from similar materials

### Carcinogenicity

Not classified based on available information.

### Reproductive toxicity

Not classified based on available information.

#### Ingredients:

##### **Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides:**

Effects on fertility : Test Type: Two-generation reproduction toxicity study  
Species: Rat  
Application Route: Ingestion  
Result: negative  
Remarks: Based on data from similar materials

Effects on fetal development : Test Type: Embryo-fetal development  
Species: Rat  
Application Route: Ingestion  
Result: negative  
Remarks: Based on data from similar materials

### STOT-single exposure

Not classified based on available information.

### STOT-repeated exposure

Not classified based on available information.

### Repeated dose toxicity

#### Ingredients:

##### **Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides:**

Species: Mouse  
NOAEL: 192 mg/kg  
Application Route: Ingestion  
Exposure time: 94 d

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Remarks: Based on data from similar materials

### Aspiration toxicity

Not classified based on available information.

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Ingredients:

#### **Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides:**

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| Toxicity to fish   | : LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.515 mg/l<br>Exposure time: 96 h<br>Remarks: Based on data from similar materials   |
| Toxicity to daphnia and other aquatic invertebrates                    | : EC50 (Daphnia magna (Water flea)): 0.016 mg/l<br>Exposure time: 48 h<br>Method: Directive 67/548/EEC, Annex V, C.2.<br>Remarks: Based on data from similar materials  |
| Toxicity to algae  | : ErC50 (Selenastrum capricornutum (green algae)): 0.049 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201<br>Remarks: Based on data from similar materials<br><br>EC10 (Selenastrum capricornutum (green algae)): 0.009 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201<br>Remarks: Based on data from similar materials |
| M-Factor (Acute aquatic toxicity)                                      | : 10  |
| Toxicity to fish (Chronic toxicity)                                    | : NOEC (Pimephales promelas (fathead minnow)): 0.0322 mg/l<br>Exposure time: 34 d<br>Remarks: Based on data from similar materials  |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : NOEC (Daphnia magna (Water flea)): 0.0125 mg/l<br>Exposure time: 21 d<br>Method: OECD Test Guideline 211<br>Remarks: Based on data from similar materials   |
| M-Factor (Chronic aquatic toxicity)                                    | : 1   |

### Persistence and degradability

#### Ingredients:

#### **Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides:**

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| Biodegradability | : Result: Readily biodegradable.<br>Biodegradation: 72 %<br>Exposure time: 28 d |
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### Bioaccumulative potential

#### Ingredients:

#### Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides:

Partition coefficient: n- : log Pow: 2.75

octanol/water

Remarks: Based on data from similar materials

### Mobility in soil

No data available

### Other adverse effects

No data available

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## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : Dispose of in accordance with local regulations.

Contaminated packaging : Dispose of as unused product.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.

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## SECTION 14. TRANSPORT INFORMATION

### International Regulation

#### UNRTDG

Not regulated as a dangerous good

#### IATA-DGR

Not regulated as a dangerous good

#### IMDG-Code

Not regulated as a dangerous good

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### Domestic regulation

#### NOM-002-SCT

Not regulated as a dangerous good

### Special precautions for user

Not applicable

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## SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

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Federal Law for the control of chemical precursors, essential chemical products and machinery for producing capsules, tablets and pills. : Not applicable

### The ingredients of this product are reported in the following inventories:

REACH	: All ingredients (pre-)registered or exempt.
TSCA	: All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.
DSL	: All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or exempt from listing on the Canadian Domestic Substances List (DSL).
AICS	: All ingredients listed or exempt.

### Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

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## SECTION 16. OTHER INFORMATION

### Further information

Sources of key data used to compile the Material Safety Data Sheet	: Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a>
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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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