

**1. Identification**

**Product identifier** Citrus Foaming Antimicrobial Soap  
**Other means of identification**  
     **SDS number** 13SAM02123A  
     **Product code** HIL00408  
**Recommended use** Antimicrobial Hand Soap  
**Recommended restrictions** For Labeled Use Only

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.

**Manufacturer/Importer/Supplier/Distributor information**

**Manufacturer**  
**Company name** HILLYARD INDUSTRIES  
**Address** 302 North Fourth St.  
 St. Joseph, MO 64501

**Contact person** Regulatory Affairs  
**Telephone number** (816) 233-1321 (Ext. 8285)  
**Fax** (816) 383-8485  
**E-mail** regulatoryaffairs@hillyard.com  
**Emergency telephone #** (800) 424-9300  
 (Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident involving chemicals)

**2. Hazard(s) identification**

**Physical hazards** Flammable liquids Category 4  
**Health hazards** Serious eye damage/eye irritation Category 2B  
 Sensitization, skin Category 1B  
**Environmental hazards** Not classified.  
**OSHA defined hazards** Not classified.

**Label elements**



**Signal word** Warning  
**Hazard statement** Combustible liquid. May cause an allergic skin reaction. Causes eye irritation.  
**Precautionary statement**  
     **Prevention** Observe good industrial hygiene practices.  
     **Response** If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Wash contaminated clothing before reuse. In case of fire: Use appropriate media to extinguish. If skin irritation or rash occurs, discontinue use.  
     **Storage** Store in a well-ventilated place. Keep cool. Store away from incompatible materials.

**Disposal**

Dispose of contents/container in accordance with local/regional/national/international regulations. Buyer assumes all risk and liability associated with disposal of this product (original concentration or dilution) in violation of applicable law. Waste from normal use may be sewer to a public-owned treatment works in compliance with applicable federal, state and local requirements.

**Hazard(s) not otherwise classified (HNOC)**

None known.

**Supplemental information**

15.74% of the mixture consists of component(s) of unknown acute oral toxicity. 17.59% of the mixture consists of component(s) of unknown acute dermal toxicity. 15.74% of the mixture consists of component(s) of unknown acute inhalation toxicity.

**3. Composition/information on ingredients****Mixtures**

| Chemical name                            | Common name and synonyms | CAS number | %        |
|--|--------------------------|------------|----------|
| 1-propanol                               |                          | 71-23-8    | 1 - < 3  |
| Ethanol                                  |                          | 64-17-5    | 1 - < 3  |
| Chloroxylenol                            |                          | 88-04-0    | 0.5      |
| Other components below reportable levels |                          |            | 90 - 100 |

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

**4. First-aid measures****Inhalation**

Move to fresh air. Call a physician if symptoms develop or persist.

**Skin contact**

Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. If skin irritation or rash occurs, discontinue use.

**Eye contact**

Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Ingestion**

In the unlikely event of swallowing contact a physician or poison control center. Rinse mouth.

**Most important symptoms/effects, acute and delayed**

Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort. May cause an allergic skin reaction. Dermatitis. Rash.

**Indication of immediate medical attention and special treatment needed**

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

**General information**

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

**5. Fire-fighting measures****Suitable extinguishing media**

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media**

Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical**

The product is combustible, and heating may generate vapors which may form explosive vapor/air mixtures. During fire, gases hazardous to health may be formed.

**Special protective equipment and precautions for firefighters**

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Fire fighting equipment/instructions**

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

**Specific methods**

Use standard firefighting procedures and consider the hazards of other involved materials.

**General fire hazards**

Combustible liquid.

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures**

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

**Methods and materials for containment and cleaning up**

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

**Environmental precautions**

Avoid discharge into drains, water courses or onto the ground.

**7. Handling and storage****Precautions for safe handling**

Keep away from open flames, hot surfaces and sources of ignition. When using do not smoke. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

**Conditions for safe storage, including any incompatibilities**

Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

**8. Exposure controls/personal protection****Occupational exposure limits**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

| Components               | Type | Value                  |
|--------------------------|------|------------------------|
| 1-propanol (CAS 71-23-8) | PEL  | 500 mg/m3<br>200 ppm   |
| Ethanol (CAS 64-17-5)    | PEL  | 1900 mg/m3<br>1000 ppm |

**US. ACGIH Threshold Limit Values**

| Components               | Type | Value    |
|--------------------------|------|----------|
| 1-propanol (CAS 71-23-8) | TWA  | 100 ppm  |
| Ethanol (CAS 64-17-5)    | STEL | 1000 ppm |

**US. NIOSH: Pocket Guide to Chemical Hazards**

| Components               | Type | Value                  |
|--------------------------|------|------------------------|
| 1-propanol (CAS 71-23-8) | STEL | 625 mg/m3<br>250 ppm   |
|                          | TWA  | 500 mg/m3<br>200 ppm   |
| Ethanol (CAS 64-17-5)    | TWA  | 1900 mg/m3<br>1000 ppm |

**Biological limit values**

No biological exposure limits noted for the ingredient(s).

**Exposure guidelines****US - California OELs: Skin designation**

1-propanol (CAS 71-23-8) Can be absorbed through the skin.

**US - Minnesota Haz Subs: Skin designation applies**

1-propanol (CAS 71-23-8) Skin designation applies.

**US NIOSH Pocket Guide to Chemical Hazards: Skin designation**

1-propanol (CAS 71-23-8) Can be absorbed through the skin.

**Appropriate engineering controls**

General ventilation normally adequate.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Avoid contact with eyes.

**Skin protection**

**Hand protection** Not applicable.

|                                       |  |
|---------------------------------------|--|
| <b>Other</b>                          | Not applicable.  |
| <b>Respiratory protection</b>         | Not applicable.  |
| <b>Thermal hazards</b>                | None known.  |
| <b>General hygiene considerations</b> | When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace. |

## 9. Physical and chemical properties

|   |                                   |
|---|-----------------------------------|
| <b>Appearance</b>                                   | Clear, orange liquid              |
| <b>Physical state</b>                               | Liquid.                           |
| <b>Form</b>   | Liquid.                           |
| <b>Color</b>  | Orange.                           |
| <b>Odor</b>   | Citrus / Medicinal fragrance      |
| <b>Odor threshold</b>                               | Not available.                    |
| <b>pH</b>   | 8 - 9.5                           |
| <b>Melting point/freezing point</b>                 | Not applicable / Not available    |
| <b>Initial boiling point and boiling range</b>      | 209 °F (98.33 °C)                 |
| <b>Flash point</b>                                  | 149.0 °F (65.0 °C) Tag Closed Cup |
| <b>Evaporation rate</b>                             | < 1 Ethyl ether=1                 |
| <b>Flammability (solid, gas)</b>                    | Not applicable.                   |
| <b>Upper/lower flammability or explosive limits</b> |                                   |
| <b>Explosive limit - lower (%)</b>                  | Not available.                    |
| <b>Explosive limit - upper (%)</b>                  | Not available.                    |
| <b>Vapor pressure</b>                               | 17.78 mm Hg                       |
| <b>Vapor density</b>                                | 0.7357 Air=1                      |
| <b>Relative density</b>                             | 1.0112                            |
| <b>Solubility(ies)</b>                              |                                   |
| <b>Solubility (water)</b>                           | 100 %                             |
| <b>Partition coefficient (n-octanol/water)</b>      | Not available.                    |
| <b>Auto-ignition temperature</b>                    | Not available.                    |
| <b>Decomposition temperature</b>                    | Not available.                    |
| <b>Viscosity</b>                                    | Not available.                    |
| <b>Other information</b>                            |                                   |
| <b>Density</b>                                      | 8.38 - 8.46 lb/gal                |
| <b>Explosive properties</b>                         | Not explosive.                    |
| <b>Oxidizing properties</b>                         | Not oxidizing.                    |
| <b>Percent volatile</b>                             | 88.5 - 90.5 %                     |
| <b>VOC</b>  | 3.1 % CARB VOC<br>6.92 % EPA VOC  |

## 10. Stability and reactivity

|   |  |
|---|--|
| <b>Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport.  |
| <b>Chemical stability</b>                 | Material is stable under normal conditions.  |
| <b>Possibility of hazardous reactions</b> | No dangerous reaction known under conditions of normal use.  |
| <b>Conditions to avoid</b>                | Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials. |
| <b>Incompatible materials</b>             | Strong oxidizing agents.   |
| <b>Hazardous decomposition products</b>   | No hazardous decomposition products are known.   |

## 11. Toxicological information

### Information on likely routes of exposure

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | Under normal conditions of intended use, this material is not expected to be an inhalation hazard. |
| <b>Skin contact</b> | May cause an allergic skin reaction.   |
| <b>Eye contact</b>  | Causes eye irritation.   |
| <b>Ingestion</b>    | Health injuries are not known or expected under normal use.  |

**Symptoms related to the physical, chemical and toxicological characteristics** Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort. May cause an allergic skin reaction. Dermatitis. Rash.

### Information on toxicological effects

**Acute toxicity** Not known.

| Components | Species | Test Results |
|------------|---------|--------------|
|------------|---------|--------------|

Chloroxylenol (CAS 88-04-0)

#### Acute

##### **Dermal**

|      |     |          |
|------|-----|----------|
| LD50 | Rat | > 2 g/kg |
|------|-----|----------|

\* Estimates for product may be based on additional component data not shown.

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation.

**Serious eye damage/eye irritation** Causes eye irritation.

### Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** May cause an allergic skin reaction.

**Germ cell mutagenicity** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity** Not classifiable as to carcinogenicity to humans.

#### **IARC Monographs. Overall Evaluation of Carcinogenicity**

Not listed.

#### **US. National Toxicology Program (NTP) Report on Carcinogens**

Not listed.

#### **US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not regulated.

**Reproductive toxicity** This product is not expected to cause reproductive or developmental effects.

**Specific target organ toxicity - single exposure** Not classified.

**Specific target organ toxicity - repeated exposure** Not classified.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful.

## 12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

| Product                           | Species | Test Results |                                   |
|-----------------------------------|---------|--------------|-----------------------------------|
| Citrus Foaming Antimicrobial Soap |         |              |                                   |
| <b>Aquatic</b>                    |         |              |                                   |
| Crustacea                         | EC50    | Daphnia      | 51.3615 mg/l, 48 hours estimated  |
| Fish                              | LC50    | Fish         | 823.4442 mg/l, 96 hours estimated |

| Components               | Species |                                      | Test Results               |
|--------------------------|---------|--------------------------------------|----------------------------|
| 1-propanol (CAS 71-23-8) |         |                                      |                            |
| <b>Aquatic</b>           |         |                                      |                            |
| Crustacea                | EC50    | Water flea (Daphnia magna)           | 3339 - 3977 mg/l, 48 hours |
| Fish                     | LC50    | Bleak (Alburnus alburnus)            | 3000 - 4000 mg/l, 96 hours |
| Ethanol (CAS 64-17-5)    |         |                                      |                            |
| <b>Aquatic</b>           |         |                                      |                            |
| Crustacea                | EC50    | Water flea (Daphnia magna)           | 7.7 - 11.2 mg/l, 48 hours  |
| Fish                     | LC50    | Fathead minnow (Pimephales promelas) | > 100 mg/l, 96 hours       |

\* Estimates for product may be based on additional component data not shown.

**Persistence and degradability** No data is available on the degradability of this product.

**Bioaccumulative potential**

**Partition coefficient n-octanol / water (log Kow)**

|            |       |
|------------|-------|
| 1-propanol | 0.25  |
| Ethanol    | -0.31 |

**Mobility in soil** No data available.

**Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

**13. Disposal considerations**

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations. Buyer assumes all risk and liability associated with disposal of this product (original concentration or dilution) in violation of applicable law.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code** This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Waste from residues / unused products** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner. Waste from normal product use may be sewer to a public owned treatment works (POTW) in compliance with applicable Federal, State, and local pretreatment requirements.

**Contaminated packaging** Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Triple rinse (or equivalent). Then offer clean, dry container for recycling or reconditioning.

**14. Transport information**

**DOT**

Not regulated as dangerous goods.

**IATA**

Not regulated as dangerous goods.

**IMDG**

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not established.

**15. Regulatory information**

**US federal regulations** This product is regulated by the FDA as an Over the Counter Drug Product. It is labeled in accordance with FDA regulations. This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List or Exempt.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

**SARA 304 Emergency release notification**

Not regulated.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not regulated.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories** Immediate Hazard - Yes  
 Delayed Hazard - No  
 Fire Hazard - Yes  
 Pressure Hazard - No  
 Reactivity Hazard - No

**SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous chemical** No

**SARA 313 (TRI reporting)**  
 Not regulated.

**Other federal regulations**

**Safe Drinking Water Act (SDWA)** Not regulated.

**FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

1-propanol (CAS 71-23-8) Low priority  
 Ethanol (CAS 64-17-5) Low priority

**US state regulations** California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

**International Inventories**

| Country(s) or region        | Inventory name                                | On inventory (yes/no)* |
|-----------------------------|---|------------------------|
| Canada                      | Domestic Substances List (DSL)                | Yes                    |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes                    |

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)  
 A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

**16. Other information, including date of preparation or last revision**

**Issue date** 07-21-2015  
**Revision date** 05-05-2017  
**Version #** 03  
**HMIS® ratings** Health: 2  
 Flammability: 2  
 Physical hazard: 0

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**Revision information** Physical & Chemical Properties: Multiple Properties  
 Regulatory information: US state regulations