SECTION 1. IDENTIFICATION

Product name : GOJO® Premium Foam Antibacterial Handwash

Manufacturer or supplier’s details
Company name of supplier : GOJO Industries, Inc.
Address : One GOJO Plaza, Suite 500
           Akron OH 44311
Telephone : 1 (330) 255-6000
Emergency telephone : 1-800-424-9300 CHEMTREC

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.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification
Flammable liquids : Category 3
Serious eye damage : Category 1

GHS Label element
Hazard pictograms :

Signal Word : Danger
Hazard Statements : H226 Flammable liquid and vapor.
SAFETY DATA SHEET

GOJO® Premium Foam Antibacterial Hand-wash

Precautionary Statements:

Prevention:
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233 Keep container tightly closed.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P280 Wear protective gloves/ eye protection/ face protection.

Response:
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.

Storage:
P403 + P235 Store in a well-ventilated place. Keep cool.

Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards
Vapors may form explosive mixture with air.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture: Mixture

Hazardous ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>64-17-5</td>
<td>&gt;= 1 - &lt; 5</td>
</tr>
<tr>
<td>Alpha-Sulfo-omega-(dodecylxy)-poly(oxy-1,2-ethanediyl), Ammonium salt</td>
<td>67762-19-0</td>
<td>&gt;= 1 - &lt; 5</td>
</tr>
<tr>
<td>Ammonium dodecyl sulphate</td>
<td>2235-54-3</td>
<td>&gt;= 1 - &lt; 5</td>
</tr>
<tr>
<td>Propylene glycol</td>
<td>57-55-6</td>
<td>&gt;= 1 - &lt; 5</td>
</tr>
<tr>
<td>4-chloro-3,5-dimethylphenol</td>
<td>88-04-0</td>
<td>&gt;= 0.1 - &lt; 1</td>
</tr>
</tbody>
</table>

SECTION 4. FIRST AID MEASURES

General advice: In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.

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: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention immediately.

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: Causes serious eye damage.

Protection of first-aiders: First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists.

Notes to physician: Treat symptomatically and supportively.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Water spray
Alcohol-resistant foam
Dry chemical
Carbon dioxide (CO2)

Unsuitable extinguishing media: High volume water jet

Specific hazards during fire fighting: Do not use a solid water stream as it may scatter and spread fire. Flash back possible over considerable distance. Vapors may form explosive mixtures with air. Exposure to combustion products may be a hazard to health.

Hazardous combustion products: Carbon oxides
Sulfur oxides
Nitrogen oxides (NOx)

Specific extinguishing methods: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.

Special protective equipment for fire-fighters: In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:
Remove all sources of ignition.
Use personal protective equipment.
Follow safe handling advice and personal protective equipment recommendations.

Environmental precautions:
Discharge into the environment must be avoided.
Prevent further leakage or spillage if safe to do so.
Prevent spreading over a wide area (e.g. by containment or oil barriers).
Retain and dispose of contaminated wash water.
Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up:
Non-sparking tools should be used.
Soak up with inert absorbent material.
Suppress (knock down) gases/vapors/mists with a water spray jet.
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.
Clean up remaining materials from spill with suitable absorbent.
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.
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures:
See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation:
Use with local exhaust ventilation.
Use only in an area equipped with explosion proof exhaust ventilation.

Advice on safe handling:
Avoid inhalation of vapor or mist.
Do not swallow.
Do not get in eyes.
Avoid prolonged or repeated contact with skin.
Handle in accordance with good industrial hygiene and safety practice.
Non-sparking tools should be used.
Keep container tightly closed.
Keep away from heat and sources of ignition.
Take precautionary measures against static discharges.
Take care to prevent spills, waste and minimize release to the
Conditions for safe storage: Keep in properly labeled containers. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations. Keep away from heat and sources of ignition.

Materials to avoid: Do not store with the following product types:
- Strong oxidizing agents
- Organic peroxides
- Flammable solids
- Pyrophoric liquids
- Pyrophoric solids
- Self-heating substances and mixtures
- Substances and mixtures which in contact with water emit flammable gases
- Explosives
- Gases

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters / Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>64-17-5</td>
<td>TWA</td>
<td>1,000 ppm 1,900 mg/m³</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>1,000 ppm 1,900 mg/m³</td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td>Propylene glycol</td>
<td>57-55-6</td>
<td>STEL</td>
<td>1,000 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>10 mg/m³</td>
<td>US WEEL</td>
</tr>
</tbody>
</table>

Hazards components without workplace control parameters

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alpha-Sulfo-omega-(dodecyloxy)-poly(oxy-1,2-ethanediyl), Ammonium salt</td>
<td>67762-19-0</td>
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<tr>
<td>4-chloro-3,5-dimethylphenol</td>
<td>88-04-0</td>
</tr>
</tbody>
</table>

Engineering measures: Minimize workplace exposure concentrations. Use only in an area equipped with explosion proof exhaust ventilation. Use with local exhaust ventilation. Dust formation may be relevant in the processing of this product. In addition to substance-specific OELs, general limitations of concentrations of particulates in the air at workplaces have to be considered in workplace risk assessment. Relevant limits include: OSHA PEL for Particulates Not Otherwise Regulated of 15 mg/m³ - total
dust, 5 mg/m³ - respirable fraction; and ACGIH TWA for
Particles (insoluble or poorly soluble) Not Otherwise
Specified of 3 mg/m³ - respirable particles, 10 mg/m³ -
inhalable particles.

### Personal protective equipment

**Respiratory protection**: General and local exhaust ventilation is recommended to
maintain vapor exposures below recommended limits. Where
concentrations are above recommended limits or are
unknown, appropriate respiratory protection should be worn.
Follow OSHA respirator regulations (29 CFR 1910.134) and
use NIOSH/MSHA approved respirators. Protection provided
by air purifying respirators against exposure to any
hazardous chemical is limited. Use a positive pressure air
supplied respirator if there is any potential for uncontrolled
release, exposure levels are unknown, or any other
circumstance where air purifying respirators may not provide
adequate protection.

**Hand protection**: Impervious gloves

**Material**: Impervious gloves

**Material**: Flame retardant gloves

**Remarks**: Choose gloves to protect hands against chemicals depending
on the concentration specific to place of work. Breakthrough
time is not determined for the product. Change gloves often!
For special applications, we recommend clarifying the
resistance to chemicals of the aforementioned protective
gloves with the glove manufacturer. Wash hands before
breaks and at the end of workday.

**Eye protection**: Chemical resistant goggles must be worn.
If splashes are likely to occur, wear:
Face-shield

**Skin and body protection**: Select appropriate protective clothing based on chemical
resistance data and an assessment of the local exposure
potential.
Wear the following personal protective equipment:
Flame retardant antistatic protective clothing.
Skin contact must be avoided by using impervious protective
clothing (gloves, aprons, boots, etc).

**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.
SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid
Color : clear, amber, brown
Odor : fruity
Odor Threshold : No data available
pH : 4.5 - 8.5
Melting point/freezing point : No data available
Initial boiling point and boiling range : No data available
Flash point : 26.00 °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 : 1.00 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.
Reactivity: Not classified as a reactivity hazard.

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions:
- Flammable liquid and vapor.
- Vapors may form explosive mixture with air.
- Can react with strong oxidizing agents.

Conditions to avoid:
- Heat, flames and sparks.

Incompatible materials:
- Oxidizing agents

Hazardous decomposition products:
- No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

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

Acute toxicity:
Not classified based on available information.

Product:
- Acute oral toxicity: Acute toxicity estimate: > 5,000 mg/kg
  Method: Calculation method

Ingredients:

Ethanol:
- Acute oral toxicity: LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity:
- LC50 (Rat): 124.7 mg/l
  Exposure time: 4 h
  Test atmosphere: vapor

Alpha-Sulfo-omega-(dodecyloxy)-poly(oxy-1,2-ethanediyl), Ammonium salt:
- Acute oral toxicity: LD50 (Rat): 4,100 mg/kg
  Method: OECD Test Guideline 401
  Remarks: Based on data from similar materials

- Acute dermal toxicity: LD50 (Rat): > 2,000 mg/kg
  Method: OECD Test Guideline 402
  Assessment: The substance or mixture has no acute dermal toxicity
  Remarks: Based on data from similar materials

Ammonium dodecyl sulphate:
- Acute oral toxicity: LD50 (Rat): 2,000 mg/kg
  Method: EC Directive 92/69/EEC B.1 Acute Toxicity (Oral)
  Remarks: Based on data from similar materials
SAFETY DATA SHEET
GOJO® Premium Foam Antibacterial Hand-wash

<table>
<thead>
<tr>
<th>Version</th>
<th>Revision Date</th>
<th>MSDS Number</th>
<th>Date of last issue</th>
<th>Date of first issue</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.2</td>
<td>02/18/2015</td>
<td>31378-00003</td>
<td>02/10/2015</td>
<td>12/11/2014</td>
</tr>
</tbody>
</table>

**Propylene glycol:**
- Acute oral toxicity: LD50 (Rat): > 5,000 mg/kg
- Acute inhalation toxicity:
  - LC50 (Rabbit): > 159 mg/l, > 51091 ppm
  - Exposure time: 4 h
  - Test atmosphere: dust/mist
  - Assessment: The substance or mixture has no acute inhalation toxicity
- Acute dermal toxicity:
  - LD50 (Rabbit): > 2,000 mg/kg
  - Assessment: The substance or mixture has no acute dermal toxicity

**4-chloro-3,5-dimethylphenol:**
- Acute oral toxicity: Acute toxicity estimate: 500 mg/kg
  - Method: Expert judgment
  - Remarks: Based on harmonised classification in EU regulation 1272/2008, Annex VI
- Acute inhalation toxicity:
  - LC50 (Rat): > 6.29 mg/l
  - Test atmosphere: dust/mist
- Acute dermal toxicity:
  - LD50 (Rat): > 2,000 mg/kg

**Skin corrosion/irritation**
Not classified based on available information.

**Product:**
Result: No skin irritation

**Ingredients:**

**Ethanol:**
- Species: Rabbit
- Method: OECD Test Guideline 404
- Result: No skin irritation

**Alpha-Sulfo-omega-(dodecylxy)-poly(oxy-1,2-ethanediyl), Ammonium salt:**
- Species: Rabbit
- Method: OECD Test Guideline 404
- Result: Skin irritation
- Remarks: Based on data from similar materials

**Ammonium dodecyl sulphate:**
- Species: Rabbit
- Method: OECD Test Guideline 404
- Result: Skin irritation

**Propylene glycol:**
- Species: Rabbit
- Method: OECD Test Guideline 404
- Result: No skin irritation
SAFETY DATA SHEET

GOJO® Premium Foam Antibacterial Handwash

Version 1.2  Revision Date: 02/18/2015  MSDS Number: 31378-00003  Date of last issue: 02/10/2015  Date of first issue: 12/11/2014

4-chloro-3,5-dimethylphenol:
Result: Skin irritation
Remarks: Based on harmonised classification in EU regulation 1272/2008, Annex VI

Serious eye damage/eye irritation
Causes serious eye damage.

Ingredients:
Ethanol:
Species: Rabbit
Result: Irritation to eyes, reversing within 21 days
Method: OECD Test Guideline 405

Alpha-Sulfo-omega-(dodecyloxy)-poly(oxy-1,2-ethanediyl), Ammonium salt:
Species: Rabbit
Result: Irreversible effects on the eye
Remarks: Based on data from similar materials

Ammonium dodecyl sulphate:
Species: Rabbit
Result: Irreversible effects on the eye
Method: OECD Test Guideline 405

Propylene glycol:
Species: Rabbit
Result: No eye irritation
Method: OECD Test Guideline 405

4-chloro-3,5-dimethylphenol:
Result: Irreversible effects on the eye

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:
Ethanol:
Test Type: Local lymph node assay (LLNA)
Routes of exposure: Skin contact
Species: Mouse
Result: negative

Alpha-Sulfo-omega-(dodecyloxy)-poly(oxy-1,2-ethanediyl), Ammonium salt:
Test Type: Maximization Test (GPMT)
Routes of exposure: Skin contact
Species: Guinea pig
Method: OECD Test Guideline 406
Result: negative
Remarks: Based on data from similar materials

Ammonium dodecyl sulphate:
Test Type: Maximization Test (GPMT)
Routes of exposure: Skin contact
Species: Guinea pig
Result: negative
Remarks: Based on data from similar materials

Propylene glycol:
Test Type: Maximization Test (GPMT)
Routes of exposure: Skin contact
Species: Guinea pig
Result: negative

4-chloro-3,5-dimethylphenol:
Assessment: Probability or evidence of skin sensitization in humans
Remarks: Based on harmonised classification in EU regulation 1272/2008, Annex VI

Germ cell mutagenicity
Not classified based on available information.

Ingredients:
Ethanol:
Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test
Result: negative

Genotoxicity in vivo : Test Type: Rodent dominant lethal test (germ cell) (in vivo)
Species: Mouse
Application Route: Ingestion
Result: negative

Alpha-Sulfo-omega-(dodecyloxy)-poly(oxy-1,2-ethanediyl), Ammonium salt:
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: In vitro mammalian cell gene mutation test
Method: OECD Test Guideline 476
Result: negative
Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis)
Species: Mouse
Application Route: Ingestion
Method: OECD Test Guideline 475
Result: negative
Remarks: Based on data from similar materials

Ammonium dodecyl sulphate:
Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test
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

Propylene glycol:
Genotoxicity in vitro: Test Type: Bacterial reverse mutation assay (AMES)
Result: negative

Genotoxicity in vivo: Test Type: In vivo micronucleus test
Species: Mouse
Application Route: Intraperitoneal injection
Result: negative

4-chloro-3,5-dimethylphenol:
Genotoxicity in vitro: Test Type: Bacterial reverse mutation assay (AMES)
Result: negative

Carcinogenicity
Not classified based on available information.

Ingredients:
Ammonium dodecyl sulphate:
Species: Rat
Application Route: Ingestion
Exposure time: 2 Years
Result: negative
Remarks: Based on data from similar materials

Propylene glycol:
Species: Rat
Application Route: Ingestion
Exposure time: 2 Years
Result: negative

IARC
No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA
No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP
No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
Reproductive toxicity
Not classified based on available information.

Ingredients:
Ethanol:
Effects on fertility : Test Type: Two-generation reproduction toxicity study
Species: Mouse
Application Route: Ingestion
Method: OECD Test Guideline 416
Result: negative

Alpha-Sulfo-omega-(dodecyloxy)-poly(oxy-1,2-ethanediyl), Ammonium salt:
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: Two-generation reproduction toxicity study
Species: Rat
Application Route: Ingestion
Result: negative
Remarks: Based on data from similar materials

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

Propylene glycol:
Effects on fertility : Species: Mouse
Application Route: Ingestion
Result: negative

Effects on fetal development : Test Type: Embryo-fetal development
Species: Mouse
Application Route: Ingestion
Result: negative

STOT-single exposure
Not classified based on available information.

STOT-repeated exposure
Not classified based on available information.

Repeated dose toxicity

Ingredients:
Ethanol:
Species: Rat
NOAEL: 2,400 mg/kg
Application Route: Ingestion
Exposure time: 2 y

**Alpha-Sulfo-omega-(dodecyloxy)-poly(oxy-1,2-ethanediyl), Ammonium salt:**
Species: Rat
NOAEL: > 225 mg/kg
Application Route: Ingestion
Exposure time: 90 d
Method: OECD Test Guideline 408
Remarks: Based on data from similar materials

**Propylene glycol:**
Species: Rat
NOAEL: 1,700 mg/kg
Application Route: Ingestion
Exposure time: 2 y

**4-chloro-3,5-dimethylphenol:**
Species: Rabbit
LOAEL: 180 mg/kg
Application Route: Skin contact
Exposure time: 90 d

Aspiration toxicity
Not classified based on available information.

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**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Ingredients:**

**Ethanol:**
- Toxicity to fish: LC50 (Pimephales promelas (fathead minnow)): > 1,000 mg/l
  Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (Water flea)): > 1,000 mg/l
  Exposure time: 48 h
- Toxicity to algae: EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l
  Exposure time: 72 h
  Method: OECD Test Guideline 201
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity): NOEC (Daphnia magna (Water flea)): 9.6 mg/l
  Exposure time: 9 d
- Toxicity to bacteria: EC50 (Photobacterium phosphoreum): 32.1 mg/l
  Exposure time: 0.25 h

**Alpha-Sulfo-omega-(dodecyloxy)-poly(oxy-1,2-ethanediyl), Ammonium salt:**
- Toxicity to fish: LC50 (Danio rerio (zebra fish)): 7.1 mg/l
  Exposure time: 96 h
  Method: OECD Test Guideline 203
<table>
<thead>
<tr>
<th>Remarks: Based on data from similar materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toxicity to daphnia and other aquatic invertebrates</td>
</tr>
<tr>
<td>EC50 (Daphnia magna (Water flea)): 7.4 mg/l</td>
</tr>
<tr>
<td>Exposure time: 48 h</td>
</tr>
<tr>
<td>Method: OECD Test Guideline 202</td>
</tr>
<tr>
<td>Remarks: Based on data from similar materials</td>
</tr>
<tr>
<td>Toxicity to algae</td>
</tr>
<tr>
<td>ErC50 (Desmodesmus subspicatus (green algae)): 27.7 mg/l</td>
</tr>
<tr>
<td>Exposure time: 72 h</td>
</tr>
<tr>
<td>Method: OECD Test Guideline 201</td>
</tr>
<tr>
<td>Remarks: Based on data from similar materials</td>
</tr>
<tr>
<td>NOEC (Desmodesmus subspicatus (green algae)): 0.95 mg/l</td>
</tr>
<tr>
<td>Exposure time: 72 h</td>
</tr>
<tr>
<td>Method: OECD Test Guideline 201</td>
</tr>
<tr>
<td>Remarks: Based on data from similar materials</td>
</tr>
<tr>
<td>Toxicity to fish (Chronic toxicity)</td>
</tr>
<tr>
<td>NOEC (Oncorhynchus mykiss (rainbow trout)): 0.14 mg/l</td>
</tr>
<tr>
<td>Exposure time: 28 d</td>
</tr>
<tr>
<td>Method: OECD Test Guideline 204</td>
</tr>
<tr>
<td>Remarks: Based on data from similar materials</td>
</tr>
<tr>
<td>Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)</td>
</tr>
<tr>
<td>NOEC (Daphnia magna (Water flea)): 0.27 mg/l</td>
</tr>
<tr>
<td>Exposure time: 21 d</td>
</tr>
<tr>
<td>Remarks: Based on data from similar materials</td>
</tr>
<tr>
<td>Toxicity to bacteria</td>
</tr>
<tr>
<td>EC10 (Pseudomonas putida): &gt; 10 g/l</td>
</tr>
<tr>
<td>Exposure time: 16 h</td>
</tr>
<tr>
<td>Method: DIN 38 412 Part 8</td>
</tr>
<tr>
<td>Remarks: Based on data from similar materials</td>
</tr>
</tbody>
</table>

**Ammonium dodecyl sulphate:**

<table>
<thead>
<tr>
<th>Remarks: Based on data from similar materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toxicity to fish</td>
</tr>
<tr>
<td>LC50 (Oncorhynchus mykiss (rainbow trout)): 3.6 mg/l</td>
</tr>
<tr>
<td>Exposure time: 96 h</td>
</tr>
<tr>
<td>Method: OECD Test Guideline 203</td>
</tr>
<tr>
<td>Remarks: Based on data from similar materials</td>
</tr>
<tr>
<td>Toxicity to daphnia and other aquatic invertebrates</td>
</tr>
<tr>
<td>EC50 (Daphnia magna (Water flea)): 4.7 mg/l</td>
</tr>
<tr>
<td>Exposure time: 48 h</td>
</tr>
<tr>
<td>Method: Tested according to Directive 92/69/EEC.</td>
</tr>
<tr>
<td>Remarks: Based on data from similar materials</td>
</tr>
<tr>
<td>Toxicity to algae</td>
</tr>
<tr>
<td>ErC50 (Desmodesmus subspicatus (green algae)): &gt; 20 mg/l</td>
</tr>
<tr>
<td>Exposure time: 72 h</td>
</tr>
<tr>
<td>Remarks: Based on data from similar materials</td>
</tr>
<tr>
<td>EC10 (Desmodesmus subspicatus (green algae)): 5.4 mg/l</td>
</tr>
<tr>
<td>Exposure time: 72 h</td>
</tr>
<tr>
<td>Remarks: Based on data from similar materials</td>
</tr>
<tr>
<td>Toxicity to daphnia and other aquatic invertebrates</td>
</tr>
<tr>
<td>NOEC (Ceriodaphnia dubia (water flea)): 0.88 mg/l</td>
</tr>
<tr>
<td>Exposure time: 7 d</td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET

GOJO® Premium Foam Antibacterial Hand-wash

Version: 1.2  Revision Date: 02/18/2015  MSDS Number: 31378-00003  Date of last issue: 02/10/2015  Date of first issue: 12/11/2014

(Chronic toxicity)  Remarks: Based on data from similar materials

Toxicity to bacteria  :  EC0 (Pseudomonas putida): 409 mg/l
                      Exposure time: 16 h
                      Method: DIN 38 412 Part 8
                      Remarks: Based on data from similar materials

Propylene glycol:
Toxicity to fish  :  LC50 (Oncorhynchus mykiss (rainbow trout)): 40,613 mg/l
                     Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates  :  EC50 (Ceriodaphnia dubia (water flea)): 18,340 mg/l
                                                        Exposure time: 48 h

Toxicity to algae  :  EC50 (Skeletonema costatum (marine diatom)): 19,000 mg/l
                       Exposure time: 48 h
                       Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity)  :  Chronic Toxicity Value: 2,500 mg/l
                                      Exposure time: 30 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)  :  NOEC (Ceriodaphnia dubia (water flea)): 29,000 mg/l
                                                                       Exposure time: 7 d

Toxicity to bacteria  :  NOEC (Pseudomonas putida): > 20,000 mg/l
                         Exposure time: 18 h

4-chloro-3,5-dimethylphenol:
Toxicity to fish  :  LC50 (Oncorhynchus mykiss (rainbow trout)): 0.76 mg/l
                     Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates  :  EC50 (Daphnia magna (Water flea)): 7.7 mg/l
                                                       Exposure time: 48 h

M-Factor (Acute aquatic toxicity)  :  1

Persistence and degradability

Ingredients:

Ethanol:
Biodegradability  :  Result: Readily biodegradable.
                   Biodegradation: 84 %
                   Exposure time: 20 d

Alpha-Sulfo-omega-(dodecylxylo)-poly(oxy-1,2-ethanediyl), Ammonium salt:
Biodegradability  :  Result: Readily biodegradable.
                   Biodegradation: 100 %
                   Exposure time: 28 d
                   Remarks: Based on data from similar materials
Ammonium dodecyl sulphate:
Biodegradability: Result: Readily biodegradable.
Biodegradation: 75.7 %
Exposure time: 28 d
Method: OECD Test Guideline 301B
Remarks: Based on data from similar materials

Propylene glycol:
Biodegradability: Result: Readily biodegradable.
Biodegradation: 98.3 %
Exposure time: 28 d
Method: OECD Test Guideline 301F

Bioaccumulative potential

Ingredients:

Ethanol:
Partition coefficient: n-octanol/water: log Pow: -0.35

Alpha-Sulfo-omega-(dodecylomega)-poly(oxy-1,2-ethanediyl), Ammonium salt:
Partition coefficient: n-octanol/water: log Pow: 0.3

Ammonium dodecyl sulphate:
Partition coefficient: n-octanol/water: log Pow: 0.8 - 0.91

Propylene glycol:
Partition coefficient: n-octanol/water: log Pow: -1.07

4-chloro-3,5-dimethylphenol:
Partition coefficient: n-octanol/water: log Pow: 3.27

Mobility in soil
No data available

Other adverse effects
No data available

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.
Do not burn, or use a cutting torch on, the empty drum.
SECTION 14. TRANSPORT INFORMATION

International Regulation

UNRTDG
UN number : UN 1987
Proper shipping name : ALCOHOLS, N.O.S.
   (Ethanol, Propan-2-ol)
Class : 3
Packing group : III
Labels : 3

IATA-DGR
UN/ID No. : UN 1987
Proper shipping name : Alcohols, n.o.s.
   (Ethanol, Propan-2-ol)
Class : 3
Packing group : III
Labels : Flammable Liquids
Packing instruction (cargo aircraft) : 366
Packing instruction (passenger aircraft) : 355

IMDG-Code
UN number : UN 1987
Proper shipping name : ALCOHOLS, N.O.S.
   (Ethanol, Propan-2-ol)
Class : 3
Packing group : III
Labels : 3
EmS Code : F-E, S-D
Marine pollutant : no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

Domestic regulation

49 CFR
UN/ID/NA number : UN 1987
Proper shipping name : ALCOHOLS, N.O.S.
Class : 3
Packing group : III
Labels : FLAMMABLE LIQUID
ERG Code : 127
Marine pollutant : no
SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity
This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity
This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Fire Hazard
                      Acute Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

Pennsylvania Right To Know
<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS Number</th>
<th>% in the formulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>70 - 90 %</td>
</tr>
<tr>
<td>Ethanol</td>
<td>64-17-5</td>
<td>1 - 5 %</td>
</tr>
<tr>
<td>Ammonium dodecyl sulphate</td>
<td>2235-54-3</td>
<td>1 - 5 %</td>
</tr>
<tr>
<td>Alpha-Sulfo-omega-(dodecyloxy)-poly(oxy-1,2-ethanediyl), Ammonium salt</td>
<td>67762-19-0</td>
<td>1 - 5 %</td>
</tr>
<tr>
<td>Propylene glycol</td>
<td>57-55-6</td>
<td>1 - 5 %</td>
</tr>
<tr>
<td>Ammonium sulfate</td>
<td>7783-20-2</td>
<td>0.1 - 1 %</td>
</tr>
<tr>
<td>Propan-2-ol</td>
<td>67-63-0</td>
<td>0.1 - 1 %</td>
</tr>
</tbody>
</table>

New Jersey Right To Know
<table>
<thead>
<tr>
<th>Ingredient</th>
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</tr>
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</tr>
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<td>Propylene glycol</td>
<td>57-55-6</td>
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</tr>
</tbody>
</table>

California Prop 65 : This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

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

AICS : All ingredients listed or exempt.

Inventories
SAFETY DATA SHEET

GOJO® Premium Foam Antibacterial Hand-wash

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

SECTION 16. OTHER INFORMATION

Further information

NFPA:  Health  Flammability  Instability

HMIS III:

HEALTH  FLAMMABILITY  PHYSICAL HAZARD

0 = not significant, 1 = Slight, 2 = Moderate, 3 = High, 4 = Extreme, * = Chronic

Special hazard.

Full text of other abbreviations

ACGIH  :  USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL  :  USA. NIOSH Recommended Exposure Limits
OSHA Z-1  :  USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
US WEEL  :  USA. Workplace Environmental Exposure Levels (WEEL)
ACGIH / STEL  :  Short-term exposure limit
NIOSH REL / TWA  :  Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
OSHA Z-1 / TWA  :  8-hour time weighted average
US WEEL / TWA  :  8-hr TWA


Revision Date  :  02/18/2015

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.