SECTION 1. IDENTIFICATION

Product name: GOJO® Gold & Klean Antimicrobial Lotion Soap

Manufacturer or supplier’s details
Company name of supplier: GOJO Industries, Inc.
Address: One GOJO Plaza, Suite 500
Akron, Ohio 44311
Telephone: 1 (330) 255-6000
Emergency telephone number: 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
Eye irritation: Category 2A

GHS label elements
Hazard pictograms: ![Eye Irritation Symbol]

Signal word: Warning
Hazard statements: H319 Causes serious eye irritation.
Precautionary statements: Prevention:
Other hazards
None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanolamine</td>
<td>141-43-5</td>
<td>&gt;= 1 - &lt; 5</td>
</tr>
<tr>
<td>Chloroxylenol</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. If symptoms persist, call a physician.

In case of skin contact: Wash with water and soap as a precaution. Get medical attention if irritation develops and persists.

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. Seek medical advice.

If swallowed: If swallowed, DO NOT induce vomiting. Rinse mouth with water. Obtain medical attention.

Most important symptoms and effects, both acute and delayed: Causes serious eye irritation.

Protection of first-aiders: First Aid responders should pay attention to self-protection and use the recommended protective clothing.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
SAFETY DATA SHEET

GOJO® Gold & Klean Antimicrobial Lotion Soap

Version 1.0  SDS Number: 400000000169  Revision Date: 08/24/2017

Unsuitable extinguishing media : None known.

Hazardous combustion products : Carbon oxides
                              Metal oxides
                              Sulphur 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.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
                      Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for firefighters : 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 : Use personal protective equipment.
                                                                       Ensure adequate ventilation.
                                                                       Evacuate personnel to safe areas.
                                                                       Material can create slippery conditions.

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 : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
                                                             Keep in suitable, closed containers for disposal.
                                                             Clean contaminated floors and objects thoroughly while observing environmental regulations.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : For personal protection see section 8.
                          Do not swallow.
                          Avoid contact with eyes.
                          Keep container closed when not in use.

Conditions for safe storage : Keep in properly labelled containers.
                              Keep container tightly closed in a dry and well-ventilated place.
                              Store in accordance with the particular national regulations.
SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

<table>
<thead>
<tr>
<th>Components</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>Ethanolamine</td>
<td>141-43-5</td>
<td>TWA</td>
<td>3 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>6 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>3 ppm 8 mg/m³</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>6 ppm 15 mg/m³</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>3 ppm 6 mg/m³</td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>6 ppm 15 mg/m³</td>
<td>OSHA P0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>3 ppm 8 mg/m³</td>
<td>OSHA P0</td>
</tr>
</tbody>
</table>

Personal protective equipment

Respiratory protection: No personal respiratory protective equipment normally required.

Eye protection: No special measures necessary provided product is used correctly. Wear face-shield and protective suit for abnormal processing problems.

Skin and body protection: No special measures necessary provided product is used correctly.

Protective measures: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Ensure that eye flushing systems and safety showers are located close to the working place.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: liquid

Colour: clear, colourless, yellow

Odour: floral

Odour Threshold: No data available
SAFETY DATA SHEET

GOJO® Gold & Klean Antimicrobial Lotion Soap

Version 1.0  SDS Number: 4000000000169  Revision Date: 08/24/2017

pH : 7.0 - 10.0, (20 °C)

Melting point/freezing point : No data available

Initial boiling point and boiling range : 91 °C

Flash point : > 100 °C

Evaporation rate : No data available

Flammability (solid, gas) : Not applicable

Flammability (liquids) :

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

Density : 1.0261 g/cm³

Solubility(ies)
  Water solubility : soluble

Partition coefficient: n-octanol/water : Not applicable

Auto-ignition temperature : No data available

Thermal decomposition : The substance or mixture is not classified self-reactive.

Viscosity
  Viscosity, kinematic : 1000 - 20000 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.

Conditions to avoid : None known.

Incompatible materials : Strong oxidizing agents

Hazardous decomposition : No hazardous decomposition products are known.
SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure
Inhalation
Eye contact
Skin contact

Acute toxicity
Not classified based on available information.

Product:

<table>
<thead>
<tr>
<th>Route</th>
<th>Acute toxicity estimate</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute oral toxicity</td>
<td>&gt; 5,000 mg/kg</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Acute inhalation toxicity</td>
<td>&gt; 200 mg/l</td>
<td>Calculation method</td>
</tr>
<tr>
<td></td>
<td>Exposure time: 4 h</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Test atmosphere: vapour</td>
<td></td>
</tr>
<tr>
<td>Acute dermal toxicity</td>
<td>&gt; 5,000 mg/kg</td>
<td>Calculation method</td>
</tr>
</tbody>
</table>

Components:

Ethanolamine:

<table>
<thead>
<tr>
<th>Route</th>
<th>Acute toxicity estimate</th>
<th>Method</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute oral toxicity</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>LD50 (Rat): 1,515 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Acute inhalation toxicity</td>
<td></td>
<td>Expert judgement</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>LD50 (Rabbit): 1,025 mg/kg</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Expert judgement</td>
<td></td>
</tr>
</tbody>
</table>

Chloroxylenol:

<table>
<thead>
<tr>
<th>Route</th>
<th>Acute toxicity estimate</th>
<th>Method</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute oral toxicity</td>
<td></td>
<td>Expert judgement</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>LD50 (Rat): 500 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Acute inhalation toxicity</td>
<td></td>
<td>Expert judgement</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>LC50 (Rat): &gt; 6.29 mg/l</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>dust/mist</td>
<td></td>
</tr>
<tr>
<td>Acute dermal toxicity</td>
<td></td>
<td>Expert judgement</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>LD50 (Rat): &gt; 2,000 mg/kg</td>
<td></td>
</tr>
</tbody>
</table>

Skin corrosion/irritation
Not classified based on available information.

Product:
Assessment: Not irritating when applied to human skin.
Result: No skin irritation
Components:
Ethanolamine:
Species: Rabbit
Result: Corrosive after 3 minutes to 1 hour of exposure

Chloroxylenol:
Result: Skin irritation
Remarks: Based on harmonised classification in EU regulation 1272/2008, Annex VI

Serious eye damage/eye irritation
Causes serious eye irritation.

Components:
Ethanolamine:
Species: Rabbit
Result: Irreversible effects on the eye

Chloroxylenol:
Result: Irreversible effects on the eye

Respiratory or skin sensitisation
Skin sensitisation: Not classified based on available information.
Respiratory sensitisation: Not classified based on available information.

Product:
Result: Does not cause skin sensitisation.
Remarks: Patch test on human volunteers did not demonstrate sensitisation properties.

Components:
Ethanolamine:
Test Type: Maximisation Test (GPMT)
Exposure routes: Skin contact
Species: Guinea pig
Result: negative

Chloroxylenol:
Assessment: Probability or evidence of skin sensitisation in humans
Remarks: Based on harmonised classification in EU regulation 1272/2008, Annex VI

Germ cell mutagenicity
Not classified based on available information.

Components:
Ethanolamine:
Genotoxicity in vitro: Test Type: In vitro mammalian cell gene mutation test
Method: OECD Test Guideline 476
Result: negative

Genotoxicity in vivo: Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)
Test species: Mouse
Application Route: Ingestion
**SAFETY DATA SHEET**

**GOJO® Gold & Klean Antimicrobial Lotion Soap**

Version 1.0  
SDS Number: 4000000000169  
Revision Date: 08/24/2017

Method: OECD Test Guideline 474  
Result: negative

**Chloroxylenol:**  
Genotoxicity in vitro  
: Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative

**Carcinogenicity**  
Not classified based on available information.

**IARC**  
No component 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 component 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 component 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.

**Components:**

**Ethanolamine:**  
Effects on fertility  
: Test Type: Two-generation reproduction toxicity study  
Species: Rat  
Application Route: Ingestion  
Result: negative

Effects on foetal development  
: Test Type: Embryo-foetal development  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 414  
Result: negative

**STOT - single exposure**  
Not classified based on available information.

**Components:**

**Ethanolamine:**  
Assessment: May cause respiratory irritation.

**STOT - repeated exposure**  
Not classified based on available information.

**Components:**

**Ethanolamine:**  
Exposure routes: inhalation (dust/mist/fume)  
Assessment: No significant health effects observed in animals at concentrations of 0.2 mg/l/6h/d or less.
Repeated dose toxicity

**Ethanolamine:**
Species: Rat  
NOAEL: 150 mg/m3  
Application Route: inhalation (dust/mist/fume)  
Exposure time: 28 d

**Chloroxylenol:**
Species: Rabbit  
LOAEL: 180 mg/kg  
Application Route: Skin contact  
Exposure time: 90 d

Aspiration toxicity  
Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

**Components:**

**Ethanolamine:**
- Toxicity to fish:  
  LC50 (Cyprinus carpio (Carp)): 349 mg/l  
  Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates:  
  EC50 (Daphnia magna (Water flea)): 65 mg/l  
  Exposure time: 48 h
- Toxicity to algae:  
  ErC50 (Scenedesmus capricornutum (green algae)): 1 mg/l  
  Exposure time: 72 h
- Toxicity to fish (Chronic toxicity):  
  NOEC (Oryzias latipes (Orange-red killifish)): 1.24 mg/l  
  Exposure time: 41 d
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity):  
  NOEC (Daphnia magna (Water flea)): 0.85 mg/l  
  Exposure time: 21 d
- Toxicity to bacteria:  
  EC50 (Pseudomonas putida): 110 mg/l  
  Exposure time: 17 h

**Chloroxylenol:**
- 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): 1
SAFETY DATA SHEET

GOJO® Gold & Klean Antimicrobial Lotion Soap

Version 1.0  SDS Number: 400000000169  Revision Date: 08/24/2017

toxicity)

Persistence and degradability

Components:

**Ethanolamine:**
- Biodegradability: Result: Readily biodegradable.
- Biodegradation: > 90 %
- Exposure time: 21 d

Bioaccumulative potential

Components:

**Ethanolamine:**
- Partition coefficient: n-octanol/water: log Pow: -1.91

**Chloroxylenol:**
- Partition coefficient: n-octanol/water: log Pow: 3.27

Mobility in soil
- No data available

Other adverse effects
- No data available

Product:

- Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
- Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

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.

SECTION 14. TRANSPORT INFORMATION

International Regulation

**IATA-DGR**
- Not regulated as a dangerous good

**IMDG-Code**
- Not regulated as a dangerous good
SAFETY DATA SHEET

GOJO® Gold & Klean Antimicrobial Lotion Soap

Version 1.0  SDS Number: 400000000169  Revision Date: 08/24/2017

National Regulations
49 CFR
Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

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 : 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.

Clean Air Act
This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).
This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).
The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC’s (40 CFR 60.489):
- Ethanolamine 141-43-5 2.576 %
This product does not contain any VOC exemptions listed under the U.S. Clean Air Act Section 450.

Clean Water Act
This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

Massachusetts Right To Know

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Sulfate</td>
<td>7757-82-6</td>
<td>1 - 5 %</td>
</tr>
<tr>
<td>Ethanolamine</td>
<td>141-43-5</td>
<td>1 - 5 %</td>
</tr>
</tbody>
</table>

Pennsylvania Right To Know

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water (Aqua)</td>
<td>7732-18-5</td>
<td>70 - 90 %</td>
</tr>
<tr>
<td>Coconut Acid</td>
<td>61788-47-4</td>
<td>5 - 10 %</td>
</tr>
<tr>
<td>Oleic Acid</td>
<td>112-80-1</td>
<td>1 - 5 %</td>
</tr>
<tr>
<td>Sodium Sulfate</td>
<td>7757-82-6</td>
<td>1 - 5 %</td>
</tr>
<tr>
<td>Ethanolamine</td>
<td>141-43-5</td>
<td>1 - 5 %</td>
</tr>
</tbody>
</table>

New Jersey Right To Know

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water (Aqua)</td>
<td>7732-18-5</td>
<td>70 - 90 %</td>
</tr>
<tr>
<td>Coconut Acid</td>
<td>61788-47-4</td>
<td>5 - 10 %</td>
</tr>
<tr>
<td>Oleic Acid</td>
<td>112-80-1</td>
<td>1 - 5 %</td>
</tr>
<tr>
<td>Sodium Sulfate</td>
<td>7757-82-6</td>
<td>1 - 5 %</td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET

GOJO® Gold & Klean Antimicrobial Lotion Soap

Version 1.0          SDS Number: 400000000169          Revision Date: 08/24/2017

Ethanolamine  141-43-5  1 - 5 %

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

The components of this product are reported in the following inventories:
- TSCA : On TSCA Inventory
- AICS : On the inventory, or in compliance with the inventory
- DSL : On the inventory, or in compliance with the inventory
- ENCS : On the inventory, or in compliance with the inventory
- ISHL : On the inventory, or in compliance with the inventory
- KECI : On the inventory, or in compliance with the inventory
- PICCS : On the inventory, or in compliance with the inventory
- IECSC : On the inventory, or in compliance with the inventory
- NZIoC : On the inventory, or in compliance with the inventory

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)

SECTION 16. OTHER INFORMATION

Further information

<table>
<thead>
<tr>
<th>NFPA</th>
<th>HMIS III</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>FLAMMABILITY</td>
</tr>
<tr>
<td>Flammability</td>
<td>PHYSICAL HAZARD</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Special hazard.

Revision Date  : 08/24/2017

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 given is designed only as
a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.