SECTION 1. IDENTIFICATION

Product name : GOJO® E2 Foam Handwash with PCMX

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 : CHEMTREC 1-800-424-9300
                                CHEMTREC +1-703-527-3887: Outside USA & CANADA

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 elements
Hazard pictograms :

Signal word : Danger
Hazard statements: H226 Flammable liquid and vapour. H318 Causes serious eye damage.

Precautionary statements:
- Prevention:
  - P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
  - P233 Keep container tightly closed.
  - P240 Ground/bond container and receiving equipment.
  - P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
  - P242 Use only non-sparking tools.
  - P243 Take precautionary measures against static discharge.
  - P280 Wear eye protection/ face protection.
- Response:
  - 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.
  - P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
- 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
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>Ethyl Alcohol</td>
<td>64-17-5</td>
<td>&gt;= 5 - &lt; 10</td>
</tr>
<tr>
<td>Lauric Acid</td>
<td>143-07-7</td>
<td>&gt;= 5 - &lt; 10</td>
</tr>
<tr>
<td>Ethanolamine</td>
<td>141-43-5</td>
<td>&gt;= 1 - &lt; 5</td>
</tr>
<tr>
<td>Lactic Acid</td>
<td>79-33-4</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 immediately if irritation develops and persists.
SAFETY DATA SHEET

GOJO® E2 Foam Handwash with PCMX

Version 1.1    SDS Number: 400000000156    Revision Date: 03/19/2019

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 damage.

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

Unsuitable extinguishing media: High volume water jet

Specific hazards during firefighting: Do not use a solid water stream as it may scatter and spread fire. Cool closed containers exposed to fire with water spray. Flash back possible over considerable distance. May form explosive mixtures in air. Exposure to decomposition products may be a hazard to health. Carbon oxides Nitrogen oxides (NOx)

Hazardous combustion products: Carbon 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: Use personal protective equipment.
SAFETY DATA SHEET

GOJO® E2 Foam Handwash with PCMX

Version 1.1  SDS Number: 400000000156  Revision Date: 03/19/2019

protective equipment and emergency procedures
Ensure adequate ventilation.
Remove all sources of ignition.
Evacuate personnel to safe areas.
Keep people away from and upwind of spill/leak.
Material can create slippery conditions.

Environmental precautions
Discharge into the environment must be avoided.
Prevent further leakage or spillage if safe to do so.
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/vapours/mists with a water spray jet.
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.
Keep away from heat.
Use with local exhaust ventilation.
Avoid contact with eyes.

Conditions for safe storage
Take measures to prevent the build up of electrostatic charge.
Keep in properly labelled containers.
Keep containers tightly closed in a dry, cool 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>Ethyl Alcohol</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></td>
<td></td>
<td>STEL</td>
<td>1,000 ppm</td>
<td>ACGIH</td>
</tr>
<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>TWA</td>
<td>3 ppm 8 mg/m3</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ST</td>
<td>6 ppm 15 mg/m3</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>3 ppm 6 mg/m3</td>
<td>OSHA Z-1</td>
</tr>
</tbody>
</table>
GOJO® E2 Foam Handwash with PCMX

Version 1.1  SDS Number: 400000000156  Revision Date: 03/19/2019

<table>
<thead>
<tr>
<th>STEL</th>
<th>6 ppm 15 mg/m³</th>
<th>OSHA P0</th>
</tr>
</thead>
<tbody>
<tr>
<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.

Hand protection

Remarks: No special protective equipment required.

Eye protection: 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, light yellow
- **Odour**: like soap
- **Odour Threshold**: No data available
- **pH**: 7.8 - 9.7, (20 °C)
- **Melting point/freezing point**: No data available
- **Initial boiling point and boiling range**: < 100 °C
- **Flash point**: 45.60 °C
- **Evaporation rate**: No data available
- **Flammability (solid, gas)**: Not applicable
- **Flammability (liquids)**: No data available
- **Upper explosion limit**: No data available
Gojo® E2 Foam Handwash with PCMX

Version 1.1  SDS Number: 400000000156  Revision Date: 03/19/2019

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lower explosion limit</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapour density</td>
<td>No data available</td>
</tr>
<tr>
<td>Density</td>
<td>0.9998 g/cm³</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td></td>
</tr>
<tr>
<td>Water solubility</td>
<td>soluble</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Thermal decomposition</td>
<td>The substance or mixture is not classified self-reactive.</td>
</tr>
<tr>
<td>Viscosity</td>
<td></td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>10 - 20 mm²/s (20 °C)</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not explosive</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>The substance or mixture is not classified as oxidizing.</td>
</tr>
</tbody>
</table>

SECTION 10. STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reactivity</td>
<td>Not classified as a reactivity hazard.</td>
</tr>
<tr>
<td>Chemical stability</td>
<td>Stable under normal conditions.</td>
</tr>
<tr>
<td>Possibility of hazardous reactions</td>
<td>Vapours may form explosive mixture with air.</td>
</tr>
<tr>
<td>Conditions to avoid</td>
<td>Heat, flames and sparks.</td>
</tr>
<tr>
<td>Incompatible materials</td>
<td>Oxidizing agents</td>
</tr>
<tr>
<td>Hazardous decomposition products</td>
<td>No hazardous decomposition products are known.</td>
</tr>
</tbody>
</table>

SECTION 11. TOXICOLOGICAL INFORMATION

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

**Acute toxicity**
Not classified based on available information.

**Product:**
- Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg
SAFETY DATA SHEET

GOJO® E2 Foam Handwash with PCMX

Version 1.1  SDS Number: 400000000156  Revision Date: 03/19/2019

Method: Calculation method

Acute inhalation toxicity: Acute toxicity estimate : > 200 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Acute dermal toxicity: Acute toxicity estimate : > 5,000 mg/kg
Method: Calculation method

**Components:**

**Ethyl Alcohol:**
- Acute oral toxicity: LD50 (Rat): > 5,000 mg/kg
- Acute inhalation toxicity: LC50 (Rat): 124.7 mg/l
  Exposure time: 4 h
  Test atmosphere: vapour

**Lauric Acid:**
- Acute oral toxicity: LD50 (Rat): > 5,000 mg/kg
  Method: OECD Test Guideline 401
- Acute inhalation toxicity: LC50 (Rat): > 0.162 mg/l
  Exposure time: 4 h
  Test atmosphere: vapour
  Remarks: Based on data from similar materials
- Acute dermal toxicity: LD50 (Rabbit): > 2,000 mg/kg
  Assessment: The substance or mixture has no acute dermal toxicity
  Remarks: Based on data from similar materials

**Ethanolamine:**
- Acute oral toxicity: LD50 (Rat): 1,515 mg/kg
- Acute inhalation toxicity: Acute toxicity estimate : 11 mg/l
  Test atmosphere: vapour
  Method: Expert judgement
  Remarks: Based on harmonised classification in EU regulation 1272/2008, Annex VI
- Acute dermal toxicity: LD50 (Rabbit): 1,025 mg/kg

**Lactic Acid:**
- Acute oral toxicity: LD50 (Rat, female): 3,543 mg/kg
- Acute inhalation toxicity: LC50 (Rat): > 7.94 mg/l
  Exposure time: 4 h
  Test atmosphere: dust/mist
  Method: OECD Test Guideline 403
- Acute dermal toxicity: LD50 (Rabbit): > 2,000 mg/kg

**Chloroxylenol:**
- Acute oral toxicity: Acute toxicity estimate : 500 mg/kg
  Method: Expert judgement
SAFETY DATA SHEET

GOJO® E2 Foam Handwash with PCMX

Version 1.1  SDS Number: 400000000156  Revision Date: 03/19/2019

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:
Assessment: Not irritating when applied to human skin.
Result: No skin irritation

Components:
Ethyl Alcohol:
Species: Rabbit
Method: OECD Test Guideline 404
Result: No skin irritation

Lauric Acid:
Species: Rabbit
Method: OECD Test Guideline 404
Result: No skin irritation

Ethanolamine:
Species: Rabbit
Result: Corrosive after 3 minutes to 1 hour of exposure

Lactic Acid:
Species: Rabbit
Result: Skin irritation

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

Serious eye damage/eye irritation
Causes serious eye damage.

Components:
Ethyl Alcohol:
Species: Rabbit
Result: Irritation to eyes, reversing within 21 days
Method: OECD Test Guideline 405

Lauric Acid:
Species: Rabbit
Result: Irreversible effects on the eye
Method: OECD Test Guideline 405

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

**Lactic Acid:**
Species: Chicken eye
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:**

**Ethyl Alcohol:**
Test Type: Local lymph node assay (LLNA)
Exposure routes: Skin contact
Species: Mouse
Result: negative

**Lauric Acid:**
Test Type: Maximisation Test (GPMT)
Exposure routes: Skin contact
Species: Guinea pig
Result: negative

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

**Lactic Acid:**
Test Type: Buehler Test
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:**

**Ethyl Alcohol:**
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)
SAFETY DATA SHEET

GOJO® E2 Foam Handwash with PCMX

Version 1.1  SDS Number: 400000000156  Revision Date: 03/19/2019

Test species: Mouse
Application Route: Ingestion
Result: negative

**Lauric Acid:**
Genotoxicity in vitro: 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: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)
Test species: Mouse
Application Route: Ingestion
Method: OECD Test Guideline 474
Result: negative

**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: Test Type: Bacterial reverse mutation assay (AMES)
Metabolic activation: with and without metabolic activation
Result: negative

**Lactic Acid:**
Genotoxicity in vitro: Test Type: Chromosome aberration test in vitro
Metabolic activation: with and without metabolic activation
Result: negative
Remarks: Based on data from similar materials

Chloroxylenol: Test Type: Bacterial reverse mutation assay (AMES)
Metabolic activation: with and without metabolic activation
Result: negative

Carcinogenicity
Not classified based on available information.

**Components:**
**Lactic Acid:**
Species: Rat
Application Route: Ingestion
Exposure time: 2 Years
Result: negative
Remarks: Based on data from similar materials

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.
SAFETY DATA SHEET

GOJO® E2 Foam Handwash with PCMX

Version 1.1  SDS Number: 400000000156  Revision Date: 03/19/2019

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:

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

Lauric Acid:
Effects on fertility
Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 422
Result: negative
Remarks: Based on data from similar materials

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

Ethanolamine:
Effects on foetal development
Test Type: Embryo-foetal development
Species: Rat
Application Route: Ingestion
Result: negative

STOT - single exposure
Not classified based on available information.

Components:

Ethanolamine:
Assessment: May cause respiratory irritation.

Lactic Acid:
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

Components:
Ethyl Alcohol:
Species: Rat
NOAEL: 2,400 mg/kg
Application Route: Ingestion
Exposure time: 2 y

Lauric Acid:
Species: Rat
NOAEL: 10,000 mg/kg
Application Route: Ingestion
Exposure time: 18 w

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

Lactic Acid:
Species: Rat
NOAEL: >= 886 mg/kg
Application Route: Skin contact
Exposure time: 13 w

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:
Ethyl Alcohol:
Toxicity to fish: LC50 (Pimephales promelas (fathead minnow)): > 1,000 mg/l
Exposure time: 96 h
<table>
<thead>
<tr>
<th>Toxidity to daphnia and other aquatic invertebrates</th>
<th>EC50 (Daphnia magna (Water flea)): &gt; 1,000 mg/l Exposure time: 48 h</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toxidity to algae</td>
<td>EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l Exposure time: 72 h Method: OECD Test Guideline 201</td>
</tr>
<tr>
<td>Toxidity to daphnia and other aquatic invertebrates (Chronic toxicity)</td>
<td>NOEC (Daphnia magna (Water flea)): 9.6 mg/l Exposure time: 9 d</td>
</tr>
<tr>
<td>Toxidity to bacteria</td>
<td>EC50 (Photobacterium phosphoreum): 32.1 mg/l Exposure time: 0.25 h</td>
</tr>
<tr>
<td><strong>Lauric Acid:</strong></td>
<td></td>
</tr>
<tr>
<td>Toxidity to fish</td>
<td>LC50 (Oryzias latipes (Japanese medaka)): 5 mg/l Exposure time: 96 h Method: OECD Test Guideline 203</td>
</tr>
<tr>
<td>Toxidity to daphnia and other aquatic invertebrates</td>
<td>EC50 (Daphnia magna (Water flea)): 3.6 mg/l Exposure time: 48 h Method: OECD Test Guideline 202</td>
</tr>
<tr>
<td>Toxidity to algae</td>
<td>EC50 (Selenastrum capricornutum (green algae)): &gt; 7.6 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: No toxicity at the limit of solubility NOEC (Selenastrum capricornutum (green algae)): &gt; 7.6 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: No toxicity at the limit of solubility</td>
</tr>
<tr>
<td>Toxidity to fish (Chronic toxicity)</td>
<td>NOEC (Danio rerio (zebra fish)): 2 mg/l Exposure time: 28 d Remarks: Based on data from similar materials</td>
</tr>
<tr>
<td>Toxidity to daphnia and other aquatic invertebrates (Chronic toxicity)</td>
<td>NOEC (Daphnia magna (Water flea)): 0.47 mg/l Exposure time: 21 d Method: OECD Test Guideline 211</td>
</tr>
<tr>
<td>Toxidity to bacteria</td>
<td>EC10 (Pseudomonas putida): &gt; 1,000 mg/l Exposure time: 30 min Method: OECD Test Guideline 209</td>
</tr>
<tr>
<td><strong>Ethanolamine:</strong></td>
<td></td>
</tr>
<tr>
<td>Toxidity to fish</td>
<td>LC50 (Cyprinus carpio (Carp)): 349 mg/l Exposure time: 96 h</td>
</tr>
<tr>
<td>Toxidity to daphnia and other aquatic invertebrates</td>
<td>EC50 (Daphnia magna (Water flea)): 65 mg/l Exposure time: 48 h</td>
</tr>
<tr>
<td>Toxidity to algae</td>
<td>EC50 (Selenastrum capricornutum (green algae)): 2.8 mg/l Exposure time: 72 h NOEC (Scenedesmus capricornutum (fresh water algae)): 1 mg/l</td>
</tr>
<tr>
<td>Component</td>
<td>Toxicity to fish (Chronic toxicity)</td>
</tr>
<tr>
<td>----------------------------</td>
<td>-------------------------------------</td>
</tr>
<tr>
<td>Ethyl Alcohol</td>
<td>NOEC (Oryzias latipes (Orange-red killifish)): 1.24 mg/l Exposure time: 41 d</td>
</tr>
<tr>
<td>Lactic Acid:</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| Chloroxylenol:             | LC50 (Oncorhynchus mykiss (rainbow trout)): 0.76 mg/l Exposure time: 96 h | EC50 (Daphnia magna (Water flea)): 7.7 mg/l Exposure time: 48 h |                      | LC50 (Onco

**Persistence and degradability**

**Components:**

**Ethyl Alcohol:**
Biodegradability: Result: Readily biodegradable. Biodegradation: 84 % Exposure time: 20 d

**Lauric Acid:**
Biodegradability: Result: Readily biodegradable. Biodegradation: 86 % Exposure time: 30 d Method: OECD Test Guideline 301D
Ethanolamine:
Biodegradability : Result: Readily biodegradable.
Biodegradation: > 90 %
Exposure time: 21 d

Lactic Acid:
Biodegradability : Result: Not readily biodegradable.
Biodegradation: 67 %
Exposure time: 20 d

Bioaccumulative potential

Components:

Ethyl Alcohol:
Partition coefficient: n-octanol/water : log Pow: -0.35

Lauric Acid:
Bioaccumulation : Species: Fish
Bioconcentration factor (BCF): 234 - 288
Remarks: Based on data from similar materials

Partition coefficient: n-octanol/water : Pow: 4.6

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

Lactic Acid:
Partition coefficient: n-octanol/water : log Pow: -0.6

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
UN/ID No. : UN 1993
Proper shipping name : Flammable liquid, n.o.s. (Ethanol)
Class : 3
Packing group : III
Packing instruction (cargo aircraft) : 366
Packing instruction (passenger aircraft) : 355

IMDG-Code
UN number : UN 1993
Proper shipping name : FLAMMABLE LIQUID, N.O.S. (Ethanol)
Class : 3
Packing group : III
Labels : 3
EmS Code : F-E, S-E
Marine pollutant : no

National Regulations
49 CFR
UN/ID/NA number : NA 1993
Proper shipping name : Combustible Liquid, n.o.s. (Ethanol)
Class : CBL
Packing group : III
ERG Code : 128
Marine pollutant : no
Remarks : Above applies only to containers over 119 gallons or 450 liters. Not regulated if shipped in packages less than or equal to 119 gallons (450 liters).

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act
SAFETY DATA SHEET

GOJO® E2 Foam Handwash with PCMX

Version 1.1   SDS Number: 400000000156   Revision Date: 03/19/2019

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.

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):
- Ethyl Alcohol 64-17-5  8.81 %
- Ethanolamine 141-43-5  3.833 %
- Dipropylene Glycol 25265-71-8  3 %
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

US State Regulations

Massachusetts Right To Know
- Ethyl Alcohol 64-17-5  5 - 10 %
- Ethanolamine 141-43-5  1 - 5 %
- Sodium Metabisulfite 7681-57-4  0 - 0.1 %

Pennsylvania Right To Know
- Water (Aqua) 7732-18-5  70 - 90 %
- Ethyl Alcohol 64-17-5  5 - 10 %
- Lauric Acid 143-07-7  5 - 10 %
- Ethanolamine 141-43-5  1 - 5 %
- Dipropylene Glycol 25265-71-8  1 - 5 %
- Isopropyl Alcohol 67-63-0  0.1 - 1 %
- Sodium Metabisulfite 7681-57-4  0 - 0.1 %

New Jersey Right To Know
- Water (Aqua) 7732-18-5  70 - 90 %
- Ethyl Alcohol 64-17-5  5 - 10 %
- Lauric Acid 143-07-7  5 - 10 %
- Ethanolamine 141-43-5  1 - 5 %
- Dipropylene Glycol 25265-71-8  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:

<table>
<thead>
<tr>
<th>Inventory</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSCA</td>
<td>On TSCA Inventory</td>
</tr>
<tr>
<td>AICS</td>
<td>On the inventory, or in compliance with the inventory</td>
</tr>
<tr>
<td>DSL</td>
<td>All components of this product are on the Canadian DSL.</td>
</tr>
<tr>
<td>ENCS</td>
<td>On the inventory, or in compliance with the inventory</td>
</tr>
<tr>
<td>ISHL</td>
<td>On the inventory, or in compliance with the inventory</td>
</tr>
<tr>
<td>KECI</td>
<td>On the inventory, or in compliance with the inventory</td>
</tr>
<tr>
<td>PICCS</td>
<td>On the inventory, or in compliance with the inventory</td>
</tr>
<tr>
<td>IECSC</td>
<td>On the inventory, or in compliance with the inventory</td>
</tr>
<tr>
<td>NZIoC</td>
<td>On the inventory, or in compliance with the inventory</td>
</tr>
</tbody>
</table>

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

NFPA:

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Reactivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>2</td>
<td>0</td>
</tr>
</tbody>
</table>

Special hazard.

HMIS III:

<table>
<thead>
<tr>
<th>HEALTH</th>
<th>FLAMMABILITY</th>
<th>PHYSICAL HAZARD</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>2</td>
<td>0</td>
</tr>
</tbody>
</table>

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

Revision Date: 03/19/2019

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.