SECTION 1. IDENTIFICATION

Product name : GOJO® E2 Foam Sanitizing 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 : 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 : ![Flammable liquid and eye damage 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.

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**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Hazardous components**

<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;= 10 - &lt; 20</td>
</tr>
<tr>
<td>Lauric Acid</td>
<td>143-07-7</td>
<td>&gt;= 5 - &lt; 10</td>
</tr>
<tr>
<td>Propylene Glycol</td>
<td>57-55-6</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>Disodium Cocoamphodiacetate</td>
<td>68650-39-5</td>
<td>&gt;= 1 - &lt; 5</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:

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

<table>
<thead>
<tr>
<th>Suitable extinguishing media</th>
<th>Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unsuitable extinguishing media</td>
<td>High volume water jet</td>
</tr>
<tr>
<td>Specific hazards during firefighting</td>
<td>Do not use a solid water stream as it may scatter and spread fire.</td>
</tr>
<tr>
<td></td>
<td>Cool closed containers exposed to fire with water spray.</td>
</tr>
<tr>
<td></td>
<td>Flash back possible over considerable distance.</td>
</tr>
<tr>
<td></td>
<td>May form explosive mixtures in air.</td>
</tr>
<tr>
<td></td>
<td>Exposure to decomposition products may be a hazard to health.</td>
</tr>
<tr>
<td></td>
<td>Carbon oxides</td>
</tr>
<tr>
<td></td>
<td>Nitrogen oxides (NOx)</td>
</tr>
<tr>
<td></td>
<td>Metal oxides</td>
</tr>
</tbody>
</table>

| Hazardous combustion products         | Carbon oxides                                                             |
|                                       | Nitrogen oxides (NOx)                                                    |
|                                       | Metal oxides                                                              |

<table>
<thead>
<tr>
<th>Specific extinguishing methods</th>
<th>Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Further information</td>
<td>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.</td>
</tr>
</tbody>
</table>

| Special protective equipment for firefighters | In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. |

SECTION 6. ACCIDENTAL RELEASE MEASURES

<table>
<thead>
<tr>
<th>Personal precautions, protective equipment and emergency procedures</th>
<th>Use personal protective equipment. 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.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environmental precautions</td>
<td>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.</td>
</tr>
<tr>
<td>Methods and materials for containment and cleaning up</td>
<td>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.</td>
</tr>
</tbody>
</table>
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/PERSOAL 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>Propylene Glycol</td>
<td>57-55-6</td>
<td>TWA</td>
<td>10 mg/m3</td>
<td>US WEEL</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>
<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>

Hazardous components without workplace control parameters

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
SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid
Colour : clear, light yellow, yellow
Odour : slight, alcohol-like
Odour Threshold : No data available
pH : 7.8 - 9.8, (20 °C)
Melting point/freezing point : No data available
Initial boiling point and boiling range : 77.00 °C
Flash point : 40.00 °C
Evaporation rate : No data available
Flammability (solid, gas) : Not applicable
Flammability (liquids) : Does not sustain combustion.
Upper explosion limit : No data available
Lower explosion limit : No data available
Vapour pressure : No data available
Relative vapour density : No data available
Density : 0.9869 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 : 10 - 20 mm2/s (20 °C)
Explosive properties : Not explosive
Oxidizing properties : The substance or mixture is not classified as oxidizing.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not classified as a reactivity hazard.
Chemical stability : Stable under normal conditions.
Possibility of hazardous : Vapours may form explosive mixture with air.
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
Eye contact
Skin contact

Acute toxicity
Not classified based on available information.

Product:
Acute oral toxicity: Acute toxicity estimate: > 5,000 mg/kg
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

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

**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

**Disodium Cocoamphodiacetate:**
Acute oral toxicity: LD50 (Rat, male): > 5,000 mg/kg
Remarks: Based on data from similar materials

Acute dermal toxicity: LD50 (Rabbit): > 5,000 mg/kg
Method: OECD Test Guideline 402
Remarks: Based on data from similar materials

**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

**Propylene Glycol:**
Species: Rabbit
Method: OECD Test Guideline 404
Result: No skin irritation

**Ethanolamine:**
Species: Rabbit
Result: Corrosive after 3 minutes to 1 hour of exposure
Disodium Cocoamphodiacetate:
Species: Rabbit
Method: OECD Test Guideline 404
Result: No skin irritation
Remarks: Based on data from similar materials

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

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

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

Disodium Cocoamphodiacetate:
Species: Rabbit
Result: Irreversible effects on the eye
Method: OECD Test Guideline 405
Remarks: Based on data from similar materials

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

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

Propylene Glycol:
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  

**Disodium Cocoamphodiacetate:**  
Test Type: Maximisation Test (GPMT)  
Exposure routes: Skin contact  
Species: Guinea pig  
Method: OECD Test Guideline 406  
Result: negative  
Remarks: Based on data from similar materials  

**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)  
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  

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

Genotoxicity in vivo: Test Type: In vivo micronucleus test  
Test species: Mouse  
Application Route: Intraperitoneal injection  
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: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)  
Test species: Mouse  
Application Route: Ingestion  
Method: OECD Test Guideline 474  
Result: negative
Disodium Cocoamphodiacetate:
Genotoxicity in vitro:
- Test Type: Chromosome aberration test in vitro
  Method: OECD Test Guideline 473
  Result: negative
  Remarks: Based on data from similar materials
- Test Type: Bacterial reverse mutation assay (AMES)
  Result: negative
  Remarks: Based on data from similar materials
- Test Type: In vitro mammalian cell gene mutation test
  Method: OECD Test Guideline 476
  Result: negative
  Remarks: Based on data from similar materials

Carcinogenicity
Not classified based on available information.

Components:

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

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:

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 reproductive/developmental toxicity screening test
  Species: Rat
  Application Route: Ingestion
SAFETY DATA SHEET

GOJO® E2 Foam Sanitizing Soap

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Method: OECD Test Guideline 422
Result: negative
Remarks: Based on data from similar materials

Effects on foetal development:
- 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

**Propylene Glycol:**

Effects on fertility:
- Species: Mouse
- Application Route: Ingestion
- Result: negative

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

**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**

**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

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

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

**Disodium Cocoamphodiacetate:**  
Species: Rat, female  
NOAEL: 250 mg/kg  
LOAEL: 500 mg/kg  
Application Route: Ingestion  
Exposure time: 28 d  
Remarks: Based on data from similar materials

**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
- 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
**Lauric Acid:**

- **Toxicity to fish:**
  - LC50 (Oryzias latipes (Japanese medaka)): 5 mg/l
  - Exposure time: 96 h
  - Method: OECD Test Guideline 203

- **Toxicity to daphnia and other aquatic invertebrates:**
  - EC50 (Daphnia magna (Water flea)): 3.6 mg/l
  - Exposure time: 48 h
  - Method: OECD Test Guideline 202

- **Toxicity to algae:**
  - EC50 (Selenastrum capricornutum (green algae)): > 7.6 mg/l
  - Exposure time: 72 h
  - Method: OECD Test Guideline 201
  - Remarks: No toxicity at the limit of solubility

- **Toxicity to fish (Chronic toxicity):**
  - NOEC (Danio rerio (zebra fish)): 2 mg/l
  - Exposure time: 28 d
  - Remarks: Based on data from similar materials

- **Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity):**
  - NOEC (Daphnia magna (Water flea)): 0.47 mg/l
  - Exposure time: 21 d
  - Method: OECD Test Guideline 211

- **Toxicity to bacteria:**
  - EC10 (Pseudomonas putida): > 1,000 mg/l
  - Exposure time: 30 min
  - Method: OECD Test Guideline 209

**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

**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 (Selenastrum capricornutum (green algae)): 2.8 mg/l
       Exposure time: 72 h

       NOEC (Scenedesmus capricornutum (fresh water 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

Disodium Cocoamphodiacetate:
Toxicity to fish: LC50 (Onchorhynchus mykiss (rainbow trout)): 4.2 mg/l
       Exposure time: 96 h
       Method: OECD Test Guideline 203
       Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (Water flea)): 17.9 mg/l
       Exposure time: 48 h
       Method: OECD Test Guideline 202
       Remarks: Based on data from similar materials

Toxicity to algae: ErC50 (Pseudokirchneriella subcapitata (green algae)): 10 mg/l
       Exposure time: 72 h
       Remarks: Based on data from similar materials

       NOEC (Pseudokirchneriella subcapitata (green algae)): 3.2 mg/l
       Exposure time: 72 h
       Remarks: Based on data from similar materials

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

Propylene Glycol:

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

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

Disodium Cocoamphodiacetate:
Biodegradability: Result: Readily biodegradable.
Biodegradation: 79 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
Remarks: Based on data from similar materials

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

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

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

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 1170
- Proper shipping name: Ethanol solution
- Class: 3
- Packing group: III
- Packing instruction (cargo aircraft): 366
- Packing instruction (passenger aircraft): 355

**IMDG-Code**
- UN number: UN 1170
- Proper shipping name: ETHANOL SOLUTION (Triclosan)
- Class: 3
- Packing group: III
- Labels: 3
- EmS Code: F-E, S-D
- Marine pollutant: yes

**National Regulations**

**49 CFR**
- UN/ID/NA number: UN 1170
- Proper shipping name: Ethanol solutions
- Class: 3
- Packing group: III
- ERG Code: 127
- Marine pollutant: yes (Triclosan)

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**
- 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 13.215 %
- Propylene Glycol 57-55-6 5 %
- Ethanolamine 141-43-5 1.9 %
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 10 - 20 %
- 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 10 - 20 %
- Lauric Acid 143-07-7 5 - 10 %
- Propylene Glycol 57-55-6 5 - 10 %
- Ethanolamine 141-43-5 1 - 5 %
- Isopropyl Alcohol 67-63-0 0.1 - 1 %
- Sodium Metabisulfite 7681-57-4 0 - 0.1 %
- Sodium Hydroxide 1310-73-2 0 - 0.1 %

New Jersey Right To Know
- Water (Aqua) 7732-18-5 70 - 90 %
- Ethyl Alcohol 64-17-5 10 - 20 %
- Lauric Acid 143-07-7 5 - 10 %
- Propylene Glycol 57-55-6 5 - 10 %
- Ethanolamine 141-43-5 1 - 5 %

California Prop 65 : This product does not require a warning label under California Proposition 65.

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

NFPA:

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

Special hazard.

HMIS III:

| HEALTH | 3 |
| FLAMMABILITY | 2 |
| PHYSICAL HAZARD | 0 |

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

Revision Date: 07/08/2019

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.