SAFETY DATA SHEET

PROVON® 3~in~1 Wash Cream

SECTION 1. IDENTIFICATION

Product name : PROVON® 3~in~1 Wash Cream

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 : Skin-care
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
Specific target organ systemic toxicity - repeated exposure (Oral) : Category 2 (Gastrointestinal tract)

GHS Label element
Hazard pictograms :

Signal Word : Warning
Hazard Statements : H319 Causes serious eye irritation.
H373 May cause damage to organs (Gastrointestinal tract) through prolonged or repeated exposure if swallowed.

Precautionary Statements:

**Prevention:**
P260 Do not breathe mist or vapors.
P264 Wash skin thoroughly after handling.
P280 Wear eye protection/face protection.

**Response:**
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P314 Get medical advice/attention if you feel unwell.
P337 + P313 If eye irritation persists: Get medical advice/attention.

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

**Other hazards**
None known.

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

**Substance / Mixture:** Mixture

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerine</td>
<td>56-81-5</td>
<td>&gt;= 5 - &lt; 10</td>
</tr>
<tr>
<td>White mineral oil (petroleum)</td>
<td>8042-47-5</td>
<td>&gt;= 1 - &lt; 5</td>
</tr>
<tr>
<td>Petrolatum</td>
<td>8009-03-8</td>
<td>&gt;= 1 - &lt; 5</td>
</tr>
<tr>
<td>Behenyltrimethylammonium Methyl Sulfate</td>
<td>81646-13-1</td>
<td>&gt;= 1 - &lt; 5</td>
</tr>
<tr>
<td>Hexadecyltrimethyl ammonium chloride</td>
<td>112-02-7</td>
<td>&gt;= 0.1 - &lt; 1</td>
</tr>
</tbody>
</table>

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**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.

**If swallowed:** If swallowed, DO NOT induce vomiting.
Get medical attention if symptoms occur.
Rinse mouth thoroughly with water.

<table>
<thead>
<tr>
<th>Most important symptoms and effects, both acute and delayed</th>
<th>Causes serious eye irritation. May cause damage to organs through prolonged or repeated exposure if swallowed.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protection of first-aiders</td>
<td>First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists.</td>
</tr>
<tr>
<td>Notes to physician</td>
<td>Treat symptomatically and supportively.</td>
</tr>
</tbody>
</table>

**SECTION 5. FIRE-FIGHTING MEASURES**

| Suitable extinguishing media               | Water spray  
|                                          | Alcohol-resistant foam  
|                                          | Dry chemical  
|                                          | Carbon dioxide (CO2) |
| Unsuitable extinguishing media            | None known. |
| Specific hazards during fire fighting     | Exposure to combustion products may be a hazard to health. |
| Hazardous combustion products            | Carbon oxides  
|                                          | Nitrogen oxides (NOx)  
|                                          | Sulfur oxides |
| 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 | 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. |
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Methods and materials for containment and cleaning up:

Soak up with inert absorbent material.
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 only with adequate 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.
Take care to prevent spills, waste and minimize release to the environment.

Conditions for safe storage:
Keep in properly labeled containers.
Store in accordance with the particular national regulations.

Materials to avoid:
Do not store with the following product types:
Strong oxidizing agents

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>Glycerine</td>
<td>56-81-5</td>
<td>TWA (mist, respirable fraction)</td>
<td>5 mg/m3</td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (mist, total dust)</td>
<td>15 mg/m3</td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td>White mineral oil (petroleum)</td>
<td>8042-47-5</td>
<td>TWA (Mist)</td>
<td>5 mg/m3</td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (Inhal-)</td>
<td>5 mg/m3</td>
<td>ACGIH</td>
</tr>
</tbody>
</table>
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Version 1.0
Revision Date: 02/26/2015
MSDS Number: 66073-00001
Date of last issue: -
Date of first issue: 02/26/2015

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</table>

Hazardous components without workplace control parameters

Engineering measures: Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.

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
Material: Impervious 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: Wear the following personal protective equipment: Safety goggles

Skin and body protection: Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential. 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:  white, opaque
Odor:  floral
Odor Threshold:  No data available
pH:  3.0 - 7.5
Melting point/freezing point:  No data available
Initial boiling point and boiling range:  No data available
Flash point:  > 100 °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:  0.9960 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:  2,000 - 30,000 mm2/s (20 °C)

Explosive properties:  Not explosive
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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 reactions: Can react with strong oxidizing agents.

Conditions to avoid: None known.

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

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

Ingredients:
Glycerine:
Acute oral toxicity: LD50 (Rat): > 5,000 mg/kg

White mineral oil (petroleum):
Acute oral toxicity: LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity: LC50 (Rat): > 5 mg/l
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
Petrolatum:
Acute oral toxicity: LD50 (Rat): > 5,000 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

Behenyltrimethylammonium Methyl Sulfate:
Acute oral toxicity: LD50 (Rat): 3,190 mg/kg
   Remarks: Based on data from similar materials

Hexadecyltrimethyl ammonium chloride:
Acute oral toxicity: LD50 (Rat): 699 mg/kg
   Method: OECD Test Guideline 401

Acute dermal toxicity: LD50 (Rabbit): 528 mg/kg
   Method: OECD Test Guideline 402
   Remarks: Based on data from similar materials

Skin corrosion/irritation
Not classified based on available information.

Product:
Result: No skin irritation

Ingredients:
Glycerine:
Result: No skin irritation

White mineral oil (petroleum):
Species: Rabbit
Result: No skin irritation

Petrolatum:
Species: Rabbit
Method: OECD Test Guideline 404
Result: No skin irritation
Remarks: Based on data from similar materials

Behenyltrimethylammonium Methyl Sulfate:
Species: Rabbit
Method: OECD Test Guideline 404
Result: Skin irritation
Remarks: Based on data from similar materials

Hexadecyltrimethyl ammonium chloride:
Species: Rabbit
Result: Corrosive after 1 to 4 hours of exposure
Remarks: Based on data from similar materials
Serious eye damage/eye irritation
Causes serious eye irritation.

**Ingredients:**

**Glycerine:**
Result: No eye irritation

**White mineral oil (petroleum):**
Species: Rabbit
Result: No eye irritation

**Petrolatum:**
Species: Rabbit
Result: No eye irritation
Method: OECD Test Guideline 405
Remarks: Based on data from similar materials

**Behenyltrimethylammonium Methyl Sulfate:**
Species: Rabbit
Result: Irreversible effects on the eye
Method: OECD Test Guideline 405
Remarks: Based on data from similar materials

**Hexadecyltrimethyl ammonium chloride:**
Species: Rabbit
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:**

**White mineral oil (petroleum):**
Test Type: Buehler Test
Routes of exposure: Skin contact
Species: Guinea pig
Result: negative

**Petrolatum:**
Test Type: Buehler Test
Routes of exposure: Skin contact
Species: Guinea pig
Result: negative
Remarks: Based on data from similar materials

**Behenyltrimethylammonium Methyl Sulfate:**
Test Type: Maximization Test (GPMT)
Routes of exposure: Skin contact
Species: Guinea pig
Method: OECD Test Guideline 406
Result: negative
Hexadecyltrimethyl ammonium chloride:
Test Type: Buehler Test
Routes of exposure: Skin contact
Species: Guinea pig
Method: OECD Test Guideline 406
Result: negative

Germ cell mutagenicity
Not classified based on available information.

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

White mineral oil (petroleum):
Genotoxicity in vitro: Test Type: In vitro mammalian cell gene mutation test
Result: negative
Genotoxicity in vivo: Test Type: Mammalian erythrocyte micronucleus test (in vivo
cytogenetic assay)
Species: Mouse
Application Route: Intraperitoneal injection
Method: OECD Test Guideline 474
Result: negative
Remarks: Based on data from similar materials

Petrolatum:
Genotoxicity in vitro: Test Type: Chromosome aberration test in vitro
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: Intraperitoneal injection
Method: OECD Test Guideline 474
Result: negative
Remarks: Based on data from similar materials

Behenyltrimethylammonium Methyl Sulfate:
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

Hexadecyltrimethyl ammonium chloride:
Genotoxicity in vitro: Test Type: Chromosome aberration test in vitro
Method: OECD Test Guideline 473
Result: negative
Carcinogenicity
Not classified based on available information.

Ingredients:
Glycerine:
Species: Rat
Application Route: Ingestion
Exposure time: 2 Years
Result: negative

White mineral oil (petroleum):
Species: Rat
Application Route: Ingestion
Exposure time: 24 Months
Result: negative

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

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

White mineral oil (petroleum):
Effects on fertility : Test Type: One-generation reproduction toxicity study
Species: Rat
Application Route: Skin contact
Result: negative
Effects on fetal development: Test Type: Embryo-fetal development
   Species: Rat
   Application Route: Ingestion
   Result: negative

**Petrolatum:**
Effects on fertility: Test Type: Reproduction/Developmental toxicity screening test
   Species: Rat
   Application Route: Ingestion
   Result: negative
   Remarks: Based on data from similar materials

Effects on fetal development: Test Type: Embryo-fetal development
   Species: Rat
   Application Route: Skin contact
   Result: negative
   Remarks: Based on data from similar materials

**Behenyltrimethylammonium Methyl Sulfate:**
Effects on fertility: Test Type: Reproduction/Developmental toxicity screening test
   Species: Rat
   Application Route: Ingestion
   Result: negative
   Remarks: Based on data from similar materials

**Hexadecyltrimethyl ammonium chloride:**
Effects on fertility: Test Type: Two-generation reproduction toxicity study
   Species: Rat
   Application Route: Ingestion
   Method: OECD Test Guideline 416
   Result: negative
   Remarks: Based on data from similar materials

Effects on fetal development: Test Type: Embryo-fetal development
   Species: Rabbit
   Application Route: Skin contact
   Result: negative

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

**STOT-repeated exposure**
May cause damage to organs (Gastrointestinal tract) through prolonged or repeated exposure if swallowed.

**Ingredients:**
**Behenyltrimethylammonium Methyl Sulfate:**
Routes of exposure: Ingestion
Target Organs: Gastrointestinal tract
Assessment: Shown to produce significant health effects in animals at concentrations of >10 to 100 mg/kg bw.
Repeated dose toxicity

**Ingredients:**

**Glycerine:**
Species: Rat  
NOAEL: 167 mg/m3  
LOAEL: 660 mg/m3  
Application Route: inhalation (dust/mist/fume)  
Exposure time: 13 w  
Symptoms: Local irritation

**White mineral oil (petroleum):**
Species: Rat  
LOAEL: 160 mg/kg  
Application Route: Ingestion  
Exposure time: 90 d

**Petrolatum:**
Species: Rat  
NOAEL: 5,000 mg/kg  
Application Route: Ingestion  
Exposure time: 2 y

**Behenyltrimethylammonium Methyl Sulfate:**
Species: Rat  
NOAEL: 10 mg/kg  
LOAEL: 50 mg/kg  
Application Route: Ingestion  
Exposure time: 28 d  
Method: OECD Test Guideline 407  
Remarks: Based on data from similar materials

**Hexadecyltrimethyl ammonium chloride:**
Species: Rat  
NOAEL: 300 mg/kg  
Application Route: Ingestion  
Exposure time: 28 d

Aspiration toxicity
Not classified based on available information.

**Ingredients:**

**White mineral oil (petroleum):**
The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.
SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

**Ingredients:**

**Glycerine:**
- Toxicity to fish: LC50 (Oncorhynchus mykiss (rainbow trout)): 54,000 mg/l
  Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (Water flea)): 1,955 mg/l
  Exposure time: 48 h
- Toxicity to bacteria: NOEC (Pseudomonas putida): > 10,000 mg/l
  Exposure time: 16 h

**White mineral oil (petroleum):**
- Toxicity to fish: LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l
  Exposure time: 96 h
  Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (Water flea)): > 100 mg/l
  Exposure time: 48 h
  Method: OECD Test Guideline 202
- Toxicity to algae: NOEC (Pseudokirchneriella subcapitata (green algae)): 100 mg/l
  Exposure time: 72 h
  Method: OECD Test Guideline 201
- Toxicity to fish (Chronic toxicity): NOEC (Oncorhynchus mykiss (rainbow trout)): 1,000 mg/l
  Exposure time: 28 d
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity): NOEC (Daphnia magna (Water flea)): 1,000 mg/l
  Exposure time: 21 d

**Petrolatum:**
- Toxicity to fish: LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l
  Exposure time: 96 h
  Test substance: Water Accommodated Fraction
  Method: OECD Test Guideline 203
  Remarks: Based on data from similar materials
- Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (Water flea)): > 10,000 mg/l
  Exposure time: 48 h
  Test substance: Water Accommodated Fraction
  Remarks: Based on data from similar materials
- Toxicity to algae: NOEL (Pseudokirchneriella subcapitata (green algae)): >= 100 mg/l
  Exposure time: 72 h
  Test substance: Water Accommodated Fraction
  Method: OECD Test Guideline 201
  Remarks: Based on data from similar materials
### Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)
- **NOEC (Daphnia magna (Water flea)):** 10 mg/l
- **Exposure time:** 21 d
- **Test substance:** Water Accommodated Fraction
- **Remarks:** Based on data from similar materials

### Behenyltrimethylammonium Methyl Sulfate:

#### Toxicity to fish
- **LC50 (Danio rerio (zebra fish)):** 0.5 - 1 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)):** 1.39 mg/l
- **Exposure time:** 48 h
- **Method:** OECD Test Guideline 202
- **Remarks:** Based on data from similar materials

#### Toxicity to algae
- **EC50 (Desmodesmus subspicatus (green algae)):** 3.48 mg/l
- **Exposure time:** 72 h
- **Method:** OECD Test Guideline 201
  - **EC10 (Desmodesmus subspicatus (green algae)):** 0.78 mg/l
  - **Exposure time:** 72 h
  - **Method:** OECD Test Guideline 201
  - **Remarks:** Based on data from similar materials

### M-Factor (Acute aquatic toxicity)
- **1**

#### Toxicity to fish (Chronic toxicity)
- **NOEC (Danio rerio (zebra fish)):** 0.24 mg/l
- **Exposure time:** 9 d
- **Remarks:** Based on data from similar materials

#### Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)
- **NOEC (Daphnia magna (Water flea)):** 128 µg/l
- **Exposure time:** 21 d
- **Method:** OECD Test Guideline 211
- **Remarks:** Based on data from similar materials

#### Toxicity to bacteria
- **EC50:** 43 mg/l
- **Exposure time:** 3 h
- **Method:** OECD Test Guideline 209
- **Remarks:** Based on data from similar materials

### Hexadecyltrimethyl ammonium chloride:

#### Toxicity to fish
- **LC50 (Danio rerio (zebra fish)):** 0.19 mg/l
- **Exposure time:** 96 h
- **Method:** OECD Test Guideline 203

#### Toxicity to daphnia and other aquatic invertebrates
- **EC50 (Daphnia magna (Water flea)):** 0.09 mg/l
- **Exposure time:** 48 h
- **Remarks:** Based on data from similar materials

#### Toxicity to algae
- **EC50 (Pseudokirchneriella subcapitata (green algae)):** 0.05 mg/l
Exposure time: 72 h  
Method: OECD Test Guideline 201

EC10 (Pseudokirchneriella subcapitata (green algae)): 0.047 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

**M-Factor (Acute aquatic toxicity):** 10

**Toxicity to fish (Chronic toxicity):**  
NOEC (Pimephales promelas (fathead minnow)): 32.2 µg/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)): 6.8 µg/l  
Exposure time: 21 d  
Remarks: Based on data from similar materials

**M-Factor (Chronic aquatic toxicity):** 1

**Toxicity to bacteria:**  
EC50 (Pseudomonas putida): 0.96 mg/l  
Exposure time: 16 h  
Method: DIN 38 412 Part 8

**Persistence and degradability**

**Ingredients:**

**Glycerine:**  
Biodegradability: Result: Readily biodegradable.  
Biodegradation: 94 %  
Exposure time: 1 d

**White mineral oil (petroleum):**  
Biodegradability: Result: Not readily biodegradable.  
Biodegradation: 31 %  
Exposure time: 28 d

**Petrolatum:**  
Biodegradability: Result: Not readily biodegradable.  
Biodegradation: 31 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F  
Remarks: Based on data from similar materials

**Behenyltrimethylammonium Methyl Sulfate:**  
Biodegradability: Result: Not readily biodegradable.  
Biodegradation: 21 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B  
Remarks: Based on data from similar materials

**Hexadecyltrimethyl ammonium chloride:**  
Biodegradability: Result: Readily biodegradable.
Biodegradation: 93.5 %
Exposure time: 28 d
Method: OECD Test Guideline 301D

Bioaccumulative potential

Ingredients:
Glycerine:
Partition coefficient: n-octanol/water : log Pow: -1.76

Hexadecyltrimethyl ammonium chloride:
Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)
Bioconcentration factor (BCF): 33 - 160
Remarks: Based on data from similar materials

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.

SECTION 14. TRANSPORT INFORMATION

International Regulation

UNRTDG
Not regulated as a dangerous good

IATA-DGR
Not regulated as a dangerous good

IMDG-Code
Not regulated as a dangerous good

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
Not regulated as a dangerous good
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 : Acute Health Hazard
Chronic 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

Water 7732-18-5 70 - 90 %
Glycerine 56-81-5 5 - 10 %
White mineral oil (petroleum) 8042-47-5 1 - 5 %
C16-C18 Alcohol 67762-27-0 1 - 5 %
Petrolatum 8009-03-8 1 - 5 %

New Jersey Right To Know

Water 7732-18-5 70 - 90 %
Glycerine 56-81-5 5 - 10 %
White mineral oil (petroleum) 8042-47-5 1 - 5 %
C16-C18 Alcohol 67762-27-0 1 - 5 %
Petrolatum 8009-03-8 1 - 5 %

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:

REACH : All ingredients (pre-)registered or exempt.
TSCA : All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.
DSL : All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or exempt from listing on the Canadian Domestic Substances List (DSL).
SECTION 16. OTHER INFORMATION

Further information

**NFPA:**

- Flammability: 1
- Health: 2
- Physical Hazard: 0
- Instability: 0

**HMIS III:**

- Health: 2*
- Flammability: 1
- Physical Hazard: 0

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

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
- ACGIH / TWA: 8-hour, time-weighted average
- NIOSH REL / TWA: Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
- NIOSH REL / ST: STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
- OSHA Z-1 / TWA: 8-hour time weighted average

Sources of key data used to compile the Material Safety Data Sheet:


Revision Date: 02/26/2015

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 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, in-
including an assessment of the appropriateness of the SDS material in the user’s end product, if applicable.

US / Z8