



VI·JON[®] Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Light Moisturizing Hand Soap
Item Number: 4X9AC
Recommended Use: Personal Care
Supplier Address: Vi-Jon, Inc.
8515 Page Avenue
Saint Louis, MO 63114

General Information Contact: Phone: 314-427-1000 (M-F 8am-4pm CST)
Email: info@vijon.com

In Case of Spill Emergency Contact: Chemtrec: 1-800-424-9300 (24-Hour)

2. HAZARDS IDENTIFICATION FOR INDUSTRIAL SETTING

CAUTION!

Emergency Overview

May cause eye irritation

Appearance: Clear, light orange viscous liquid

Physical State: Viscous liquid

Odor: Floral

Potential Health Effects

Primary Routes of Exposure

Skin contact.

Acute Toxicity

Eyes

May cause irritation.

Skin

Prolonged or repeated contact may dry skin and cause irritation.

Inhalation

No known effect based on information supplied.

Ingestion

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic Effects

No known effect based on information supplied.

Aggravated Medical Conditions

None known.

Environmental Hazard

See Section 12 for additional Ecological Information. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS-No | Weight % |
|---|------------|----------|
| Water | 7732-18-5 | 50-100 |
| Sodium Laureth Sulfate | 1335-72-4 | 0-10 |
| Sodium Lauryl Sulfate | 151-21-3 | 0-10 |
| Cocamidopropyl Betaine | 61789-40-0 | 0-10 |
| Sodium Chloride | 7647-14-5 | 0-10 |
| Glycerin | 56-81-5 | 0-10 |
| Fragrance (Irritating to the eyes and skin) | Fragrance | 0-10 |
| Cocamide MEA | 68140-00-1 | 0-10 |
| Benzyl Alcohol | 100-51-6 | 0-10 |
| Polyquaternium-7 | 26590-05-6 | 0-10 |
| Tetrasodium EDTA | 64-02-8 | 0-10 |
| Citric Acid | 77-92-9 | 0-10 |
| Aloe barbadensis Extract | 85507-69-3 | 0-10 |
| Hydrolyzed Silk | 96690-41-4 | 0-10 |
| FD&C Red No. 40 | 25956-17-6 | 0-10 |
| FD&C Yellow No. 5 | 1934-21-0 | 0-10 |
| Red 33 | 3567-66-6 | 0-10 |

4. FIRST AID MEASURES

| | |
|---------------------------|---|
| Eye Contact | Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician. |
| Skin Contact | Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician. |
| Inhalation | In an industrial setting, move to fresh air. If symptoms persist, call a physician. |
| Ingestion | Rinse mouth. Drink plenty of water. Do NOT induce vomiting. If symptoms persist, call a physician. |
| Notes to Physician | Treat symptomatically. |

5. FIRE-FIGHTING MEASURES

| | |
|---------------------------------------|--|
| Flammable Properties | Not flammable. |
| Flash Point | > 93 C / > 199 F |
| Suitable Extinguishing Media | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use: Dry chemical. Carbon dioxide (CO ₂). Water spray. Alcohol-resistant foam. |
| Unsuitable Extinguishing Media | Do not use a solid water stream as it may scatter and spread fire. |
| Hazardous Combustion Products | Carbon oxides. |
| Explosion Data | |
| Sensitivity to Mechanical Impact | No. |
| Sensitivity to Static Discharge | No. |

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

| | | | | |
|-------------|------------------------|-----------------------|--------------------|---|
| NFPA | Health Hazard 1 | Flammability 0 | Stability 0 | Physical and Chemical Hazards - NONE |
|-------------|------------------------|-----------------------|--------------------|---|

6. ACCIDENTAL RELEASE MEASURES FOR INDUSTRIAL SETTING

| | |
|----------------------------------|--|
| Personal Precautions | Avoid contact with eyes. Use personal protective equipment. |
| Environmental Precautions | Refer to protective measures listed in Sections 7 and 8. |
| Methods for Containment | Prevent further leakage or spillage if safe to do so. |
| Methods for Cleaning Up | Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly. |

7. HANDLING AND STORAGE FOR INDUSTRIAL SETTING

Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION FOR INDUSTRIAL SETTING

Exposure Guidelines

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---------------------|--------------------------------|--|------------|
| Glycerin 56-81-5 | TWA: 10 mg/m ³ mist | TWA: 15 mg/m ³ mist, total particulate TWA: 5 mg/m ³ mist, respirable fraction (vacated) TWA: 10 mg/m ³ mist, total particulate (vacated) TWA: 5 mg/m ³ mist, respirable fraction | |

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Engineering Measures Showers
Eyewash stations
Ventilation systems

Personal Protective Equipment

Eye/Face Protection Safety glasses with side-shields.
Skin and Body Protection Protective gloves.
Respiratory Protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|-----------------------------------|------------------------------------|---------------------------------|--------------------------|
| Appearance | Clear, light orange viscous liquid | Odor | Floral |
| Odor Threshold | No information available | Physical State | Viscous liquid |
| pH | 6.9 | Autoignition Temperature | No information available |
| Flash Point | > 199 F / > 93 C | Boiling Point/Range | No information available |
| Decomposition Temperature | No information available | Explosion Limits | No information available |
| Melting Point/Range | No information available | Solubility | No information available |
| Flammability Limits in Air | No information available | Vapor Pressure | No data available |
| Water Solubility | Miscible with water | VOC Content (%) | 0.9099 |
| Evaporation Rate | No information available | | |
| Vapor Density | No data available | | |

10. STABILITY AND REACTIVITY

Stability Stable under recommended storage conditions.

Incompatible Products None known.

Conditions to Avoid None known.

Hazardous Decomposition Products Carbon oxides.

Hazardous Polymerization Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION FOR INDUSTRIAL SETTING

Acute Toxicity

Product Information

| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|------------------------|-----------------------|-------------------------|--------------------------------------|
| Water | > 90 mL/kg (Rat) | - | - |
| Sodium Laureth Sulfate | = 1288 mg/kg (Rat) | = 580 mg/kg (Rabbit) | > 3900 mg/m ³ (Rat) 1 h |
| Sodium Lauryl Sulfate | = 1288 mg/kg (Rat) | = 580 mg/kg (Rabbit) | > 3900 mg/m ³ (Rat) 1 h |
| Cocamidopropyl Betaine | = 4900 mg/kg (Rat) | - | - |
| Sodium Chloride | 3 g/kg (Rat) | > 10 g/kg (Rabbit) | > 42 g/m ³ (Rat) 1 h |
| Glycerin | = 12600 mg/kg (Rat) | > 21900 mg/kg (Rat) | 570 mg/m ³ (Rat) 1 h |
| Cocamide MEA | = 3300 mg/kg (Rat) | - | - |
| Benzyl Alcohol | = 1230 mg/kg (Rat) | = 2000 mg/kg (Rabbit) | = 8.8 mg/L (Rat) 4 h |
| Tetrasodium EDTA | = 10 g/kg (Rat) | - | - |
| Citric Acid | = 3000 mg/kg (Rat) | - | - |
| FD&C Red No. 40 | > 10 g/kg (Rat) | > 10 g/kg (Rabbit) | - |

Chronic Toxicity

Chronic Toxicity No known effect based on information supplied.

Carcinogenicity None known.

Target Organ Effects None known.

12. ECOLOGICAL INFORMATION FOR INDUSTRIAL SETTING

Ecotoxicity

The environmental impact of this product has not been fully investigated. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

| Chemical Name | Toxicity to Algae | Toxicity to Fish | Toxicity to Microorganisms | Daphnia Magna (Water Flea) |
|------------------------|---|---|----------------------------|--|
| Sodium Laureth Sulfate | EC50: 3.59 - 15.6 mg/L (96 h static) <i>Pseudokirchneriella subcapitata</i> EC50: 30 - 100 mg/L (96 h) <i>Desmodesmus subspicatus</i> EC50: 117 mg/L (96 h) <i>Pseudokirchneriella subcapitata</i> EC50: 53 mg/L (72 h) <i>Desmodesmus subspicatus</i> | LC50: 9.9-20.1 mg/L (96 h semi-static) <i>Brachydanio rerio</i> LC50: 5.8-7.5 mg/L (96 h static) <i>Pimephales promelas</i> LC50: 22.1-22.8 mg/L (96 h static) <i>Pimephales promelas</i> LC50: 4.2-4.8 mg/L (96 h flow-through) <i>Lepomis macrochirus</i> LC50: 7.97 mg/L (96 h flow-through) <i>Brachydanio rerio</i> LC50: 10.2-22.5 mg/L (96 h semi-static) <i>Pimephales promelas</i> LC50: 4.5 mg/L (96 h) <i>Lepomis macrochirus</i> LC50: 13.5-18.3 mg/L (96 h semi-static) <i>Poecilia reticulata</i> LC50: 4.62 mg/L (96 h flow-through) <i>Oncorhynchus mykiss</i> LC50: 10.8-16.6 mg/L (96 h static) <i>Poecilia reticulata</i> LC50: 4.06-5.75 mg/L (96 h static) <i>Lepomis macrochirus</i> LC50: 6.2-9.6 mg/L (96 h) <i>Pimephales promelas</i> LC50: 8-12.5 mg/L (96 h static) <i>Pimephales promelas</i> LC50: 1.31 mg/L (96 h semi-static) <i>Cyprinus carpio</i> LC50: 4.2 mg/L (96 h) <i>Oncorhynchus mykiss</i> LC50: 15-18.9 mg/L (96 h static) <i>Pimephales promelas</i> LC50: 4.3-8.5 mg/L (96 h static) <i>Oncorhynchus mykiss</i> | | EC50: 1.8 mg/L (48 h) <i>Daphnia magna</i> |

Product Number: 4X9AC
 Issuing Date: February 5, 2012

Revision Date: None

Product Name: Light Moisturizing Hand Soap
 Revision Number: 0

| Chemical Name | Toxicity to Algae | Toxicity to Fish | Toxicity to Microorganisms | Daphnia Magna (Water Flea) |
|------------------------|--|---|--|--|
| Sodium Lauryl Sulfate | EC50: 3.59 - 15.6 mg/L (96 h static) Pseudokirchneriella subcapitata EC50: 30 - 100 mg/L (96 h) Desmodesmus subspicatus EC50: 117 mg/L (96 h) Pseudokirchneriella subcapitata EC50: 53 mg/L (72 h) Desmodesmus subspicatus | LC50: 10.2-22.5 mg/L (96 h semi-static) Pimephales promelas LC50: 10.8-16.6 mg/L (96 h static) Poecilia reticulata LC50: 22.1-22.8 mg/L (96 h static) Pimephales promelas LC50: 6.2-9.6 mg/L (96 h) Pimephales promelas LC50: 7.97 mg/L (96 h flow-through) Brachydanio rerio LC50: 4.06-5.75 mg/L (96 h static) Lepomis macrochirus LC50: 4.3-8.5 mg/L (96 h static) Oncorhynchus mykiss LC50: 1.31 mg/L (96 h semi-static) Cyprinus carpio LC50: 5.8-7.5 mg/L (96 h static) Pimephales promelas LC50: 9.9-20.1 mg/L (96 h semi-static) Brachydanio rerio LC50: 13.5-18.3 mg/L (96 h semi-static) Poecilia reticulata LC50: 4.5 mg/L (96 h) Lepomis macrochirus LC50: 4.62 mg/L (96 h flow-through) Oncorhynchus mykiss LC50: 8-12.5 mg/L (96 h static) Pimephales promelas LC50: 15-18.9 mg/L (96 h static) Pimephales promelas LC50: 4.2-4.8 mg/L (96 h flow-through) Lepomis macrochirus LC50: 4.2 mg/L (96 h) Oncorhynchus mykiss | EC50 = 0.46 mg/L 30 min EC50 = 0.72 mg/L 15 min EC50 = 1.19 mg/L 5 min | EC50: 1.8 mg/L (48 h) Daphnia magna |
| Cocamidopropyl Betaine | EC50: 1.0 - 10.0 mg/L (72 h) Desmodesmus subspicatus EC50: 0.55 mg/L (96 h) Desmodesmus subspicatus | LC50: 1.0-10.0 mg/L (96 h) Brachydanio rerio LC50: 2 mg/L (96 h semi-static) Brachydanio rerio | | EC50: 6.5 mg/L (48 h) Daphnia magna |
| Sodium Chloride | | LC50: 5560-6080 mg/L Lepomis macrochirus 96 h flow-through LC50: 12946 mg/L Lepomis macrochirus 96 h static LC50: 6020-7070 mg/L Pimephales promelas 96 h static LC50: 7050 mg/L Pimephales promelas 96 h semi-static LC50: 6420-6700 mg/L Pimephales promelas 96 h static LC50: 4747-7824 mg/L Oncorhynchus mykiss 96 h flow-through | | EC50: 340.7 - 469.2 mg/L (48 h Static) Daphnia magna EC50: 1000 mg/L (48 h) Daphnia magna |
| Glycerin | | LC50: 51 - 57 mg/L (96 h static) Oncorhynchus mykiss | | EC50: > 500 mg/L (24 h) Daphnia magna |
| Cocamide MEA | | LC50: 31 mg/L (96 h) Brachydanio rerio LC50: 28.5 mg/L (96 h semi-static) Brachydanio rerio | | EC50: 10 mg/L (24 h) Daphnia magna |
| Benzyl Alcohol | EC50: 35 mg/L (3 h) Anabaena variabilis | LC50: 10 mg/L (96 h static) Lepomis macrochirus LC50: 460 mg/L (96 h static) Pimephales promelas | EC50 = 50 mg/L 5 min EC50 = 63.7 mg/L 15 min EC50 = 63.7 mg/L 5 min EC50 = 71.4 mg/L 30 min | EC50: 23 mg/L (48 h) water flea |
| Tetrasodium EDTA | EC50: 1.01 mg/L (72 h) Desmodesmus subspicatus | LC50: 59.8 mg/L (96 h static) Pimephales promelas LC50: 41 mg/L (96 h static) Lepomis macrochirus | | EC50: 610 mg/L (24 h) Daphnia magna |

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| Chemical Name | Toxicity to Algae | Toxicity to Fish | Toxicity to Microorganisms | Daphnia Magna (Water Flea) |
|---------------|-------------------|--|----------------------------|---|
| Citric Acid | | LC50: 1516 mg/L (96 h static) Lepomis macrochirus | | EC50: 120 mg/L (72 h) Daphnia magna |

| Chemical Name | Log Pow |
|------------------------|---------|
| Sodium Laureth Sulfate | 1.6 |
| Sodium Lauryl Sulfate | 1.6 |
| Glycerin | -1.76 |
| Cocamide MEA | 3.89 |
| Benzyl Alcohol | 1.1 |
| Citric Acid | -1.72 |

13. DISPOSAL CONSIDERATIONS FOR INDUSTRIAL SETTING

Waste Disposal Methods

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated Packaging

Dispose of in accordance with local regulations.

| Chemical Name | RCRA | RCRA - Basis for Listing | RCRA - D Series Wastes | RCRA - U Series Wastes |
|---------------|------|--------------------------|------------------------|------------------------|
| N/A | N/A | N/A | N/A | N/A |

California Hazardous Waste Codes 561

This product contains one or more substances that are listed with the State of California as a hazardous waste.

| Chemical Name | California EHW | California Carc | California Hazardous Waste | California Waste - Part 2 |
|---------------|----------------|-----------------|----------------------------|---------------------------|
| N/A | N/A | N/A | N/A | N/A |

14. TRANSPORT INFORMATION

| | |
|-----------------|---------------|
| <u>DOT</u> | Not regulated |
| <u>TDG</u> | Not regulated |
| <u>MEX</u> | Not regulated |
| <u>ICAO</u> | Not regulated |
| <u>IATA</u> | Not regulated |
| <u>IMDG/IMO</u> | Not regulated |

15. REGULATORY INFORMATION FOR INDUSTRIAL SETTING

International Inventories

TSCA Exempt
DSL Does not Comply

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

| Chemical Name | CAS-No | Weight % | SARA 313 - Threshold Values % |
|---------------|--------|----------|-------------------------------|
| N/A | N/A | N/A | N/A |

SARA 311/312 Hazard Categories

Acute Health Hazard Yes (eyes, see above)
Chronic Health Hazard No
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard No

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

| Chemical Name | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|---------------|-----------------------------|------------------------|---------------------------|----------------------------|
| N/A | N/A | N/A | N/A | N/A |

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following substances which are listed hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act:

| Chemical Name | CAS-No | Weight % | HAPS data | VOC Chemicals | Class 1 Ozone Depletors | Class 2 Ozone Depletors |
|----------------|----------|----------|-----------|---------------|-------------------------|-------------------------|
| Glycerin | 56-81-5 | 0-10 | | Group II | | |
| Benzyl Alcohol | 100-51-6 | 0-10 | | Group III | | |

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

| Chemical Name | Hazardous Substances RQs | Extremely Hazardous Substances RQs |
|---------------|--------------------------|------------------------------------|
| N/A | N/A | N/A |

U.S. State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals: **NONE**

U.S. State Right-to-Know Regulations for Industrial Setting

International Regulations

Mexico - Grade Slight risk, Grade 1

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

D2A



Legend

NPRI - National Pollutant Release Inventory

16. OTHER INFORMATION

Issuing Date February 5, 2012

Revision Date None

Revision Note None

MSDS Prepared by WERCS Professional Services, LLC

General Disclaimer

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

Approved and Updated by Vi-Jon, Inc.

Disclaimer:

The information and recommendations contained in the Material Safety Data Sheet (MSDS) are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. The information and recommendations set forth herein are presented in good faith and believed to be correct as of this date hereof.

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End of Safety Data Sheet