



VI-JON® Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Fresh Citrus Liquid Hand Soap
Item Number: 5W6AB
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 yellow, slightly viscous liquid with bronze colored beads **Physical State:** Slightly viscous liquid with beads **Odor:** Lemon, citrus

Potential Health Effects

Primary Routes of Exposure

Skin contact.

Acute Toxicity

Eyes

May cause irritation.

Skin

Prolonged or repeated contact may 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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Water	7732-18-5	50-100
Sodium Laureth Sulfate	1335-72-4	10-50
Acrylates Copolymer	25035-69-2	0-10
Cocamidopropyl Betaine	61789-40-0	0-10
Methyl Gluceth-10	53026-67-8	0-10
PPG-10 Methyl Glucose Ether	61849-72-7	0-10
Fragrance	Fragrance	0-10
Sodium Hydroxide	1310-73-2	0-10
DMDM Hydantoin	6440-58-0	0-10
Zea Mays (Corn) Oil	8001-30-7	0-10
Butyrospermum Parkii (Shea) Butter	194043-92-0	0-10
Tetrasodium EDTA	64-02-8	0-10
Gelatin	9000-70-8	0-10
Acacia Senegal Gum	9000-01-5	0-10
Mica	12001-26-2	0-10
Sodium Chloride	7647-14-5	0-10
Xanthan Gum	11138-66-2	0-10
Citric Acid	77-92-9	0-10
Titanium Dioxide	13463-67-7	0-10
Iron Oxides	1309-37-1	0-10
Beta-carotene	7235-40-7	0-10
Phenoxyethanol	122-99-6	0-10
Benzoic Acid	65-85-0	0-10
Dehydroacetic Acid	520-45-6	< 0.1
Red 30	2379-74-0	0-10
Yellow 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	In the case of skin irritation or allergic reactions see a physician.
Inhalation	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.
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	Damp 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 container tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION FOR INDUSTRIAL SETTING

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium Hydroxide 1310-73-2	Ceiling: 2 mg/m ³	TWA: 2 mg/m ³ (vacated) Ceiling: 2 mg/m ³	IDLH: 10 mg/m ³ Ceiling: 2 mg/m ³
Mica 12001-26-2	TWA: 3 mg/m ³	TWA: 20 mppcf (<1% crystalline silica) 3 mg/m ³ (vacated)	IDLH: 1500 mg/m ³ containing <1% quartz TWA: 3 mg/m ³ respirable dust
Titanium Dioxide 13463-67-7	TWA: 10 mg/m ³	TWA: 15 mg/m ³ total dust (vacated) TWA: 10 mg/m ³ total dust	IDLH: 5000 mg/m ³
Iron Oxides 1309-37-1	TWA: 5 mg/m ³ respirable fraction	TWA: 10 mg/m ³ fume (vacated) TWA: 10 mg/m ³ fume	IDLH: 2500 mg/m ³ Fe dust and fume TWA: 5 mg/m ³ Fe dust and fume

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 yellow, slightly viscous liquid with bronze colored beads	Odor	Lemon, citrus
Odor Threshold	No information available.	Physical State	Slightly viscous liquid
pH	6.6	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 (%)	0.2063
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
Cocamidopropyl Betaine	= 4900 mg/kg (Rat)	-	-
Sodium Hydroxide	-	= 1350 mg/kg (Rabbit)	-
DMDM Hydantoin	= 2 g/kg (Rat)	-	-
Zea Mays (Corn) Oil	> 100 mL/kg (Rat)	-	-
Tetrasodium EDTA	= 10 g/kg (Rat)	-	-
Acacia Senegal Gum	> 16 g/kg (Rat)	-	-
Sodium Chloride	3 g/kg (Rat)	> 10 g/kg (Rabbit)	> 42 g/m ³ (Rat) 1 h
Citric Acid	= 3000 mg/kg (Rat)	-	-
Titanium Dioxide	10000 mg/kg (Rat)	-	-
Iron Oxides	> 10000 mg/kg (Rat)	-	-
Phenoxyethanol	= 1260 mg/kg (Rat)	= 5 mL/kg (Rabbit) = 14422 mg/kg (Rat)	-
Benzoic Acid	= 1700 mg/kg (Rat)	-	-
Dehydroacetic acid	= 500 mg/kg (Rat)	-	-

Chronic Toxicity

Chronic Toxicity No known effect based on information supplied.

Carcinogenicity No known effect based on information supplied.

Target Organ Effects None known.

12. ECOLOGICAL INFORMATION FOR INDUSTRIAL SETTING

Ecotoxicity

The environmental impact of this product has not been fully investigated.

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>
Cocamidopropyl Betaine	EC50: 1.0 - 10.0 mg/L (72 h) <i>Desmodesmus subspicatus</i> EC50: 0.55 mg/L (96 h) <i>Desmodesmus subspicatus</i>	LC50: 1.0-10.0 mg/L (96 h) <i>Brachydanio rerio</i> LC50: 2 mg/L (96 h semi-static) <i>Brachydanio rerio</i>		EC50: 6.5 mg/L (48 h) <i>Daphnia magna</i>
Sodium Hydroxide		LC50: 45.4 mg/L (96 h static) <i>Oncorhynchus mykiss</i>		
Tetrasodium EDTA	EC50: 1.01 mg/L (72 h) <i>Desmodesmus subspicatus</i>	LC50: 59.8 mg/L (96 h static) <i>Pimephales promelas</i> LC50: 41 mg/L (96 h static) <i>Lepomis macrochirus</i>		EC50: 610 mg/L (24 h) <i>Daphnia magna</i>
Sodium Chloride		LC50: 5560-6080 mg/L <i>Lepomis macrochirus</i> 96 h flow-through LC50: 12946 mg/L <i>Lepomis macrochirus</i> 96 h static LC50: 6020-7070 mg/L <i>Pimephales promelas</i> 96 h static LC50: 7050 mg/L <i>Pimephales promelas</i> 96 h semi-static LC50: 6420-6700 mg/L <i>Pimephales promelas</i> 96 h static LC50: 4747-7824 mg/L <i>Oncorhynchus mykiss</i> 96 h flow-through		EC50: 340.7 - 469.2 mg/L (48 h Static) <i>Daphnia magna</i> EC50: 1000 mg/L (48 h) <i>Daphnia magna</i>
Citric Acid		LC50: 1516 mg/L (96 h static) <i>Lepomis macrochirus</i>		EC50: 120 mg/L (72 h) <i>Daphnia magna</i>

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Issuing Date: March 4, 2012

Revision Date: None

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Revision Number: 0

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Phenoxyethanol	EC50: > 500 mg/L (72 h) Desmodesmus subspicatus	LC50: 220-460 mg/L (96 h static) Leuciscus idus LC50: 366 mg/L (96 h static) Pimephales promelas LC50: 337-352 mg/L (96 h flow-through) Pimephales promelas		EC50: > 500 mg/L (48 h) Daphnia magna
Benzoic Acid	EC50: 5 mg/L (3 h) Anabaena inaequalis	LC50: 180 mg/L (96 h) Gambusia affinis		EC50: 300 mg/L (24 h) Daphnia magna EC50: 860 mg/L (48 h Static) Daphnia magna

Chemical Name	Log Pow
Sodium Laureth Sulfate	1.6
Citric Acid	-1.72
Phenoxyethanol	1.13
Benzoic Acid	1.93

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. Dispose of in accordance with local regulations

Contaminated Packaging

Dispose of in accordance with local regulations.

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
Sodium Hydroxide			Toxic Corrosive	

14. TRANSPORT INFORMATION

DOT

Not regulated

TDG

Not regulated

MEX

Not regulated

ICAO

Not regulated

IATA

Not regulated

IMDG/IMO

Not regulated

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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 %
Phenoxyethanol	122-99-6	0-10	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard	No
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
Sodium Hydroxide	1000 lb			X
Benzoic Acid	5000 lb			X

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 Depleters	Class 2 Ozone Depleters
Phenoxyethanol	122-99-6	0-10	Present (includes mono- and di- ethers of ethylene glycol, diethylene glycol, and triethylene glycol, except Ethylene glycol monobutyl ether [EGBE]. See 40 CFR 63.62 for Redefinition of glycol ethers listed as hazardous air pollutants and 40 CFR 63.63 fo			
Benzoic Acid	65-85-0	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
Sodium Hydroxide	1000 lb	
Benzoic Acid	5000 lb	

U.S. State Regulations

California Proposition 65 - NONE

This product does not contain any Proposition 65 chemicals.

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

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Sodium Hydroxide	X	X	X		X

International Regulations

Mexico - Grade Slight risk, Grade 1

Chemical Name	Carcinogen Status	Exposure Limits
Sodium Hydroxide		Mexico: Ceiling= 2 mg/m ³

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

Non-controlled

16. OTHER INFORMATION

Issuing Date March 4, 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