

## SAFETY DATA SHEET

### Section 1. Product And Company Identification

**Product Name:** VioNex™ Antimicrobial Liquid Soap

**Product Use:** Antimicrobial Hand Soap

**Manufacturer:** METREX™ RESEARCH  
1717 W. Collins Ave.  
Orange, CA 92867  
U.S.A.

**Information Phone Number:** 1-800-841-1428 (Customer Service)

**Chemical Emergency Phone Number (Chemical Spills, Leaks, Fire, Exposure or Accident only):**  
CHEMTREC 1-800-424-9300 (in the US) 1-703-527-3887 (Outside the US)

**SDS Date Of Preparation/Revision:** November 12, 2014

### Section 2. Hazards Identification

**GHS / HAZCOM 2012 Classification:**

Eye Irritation Category 2A

Carcinogenicity Category 2

Label Elements

**Warning!**



**Hazard Phrases:**

Causes serious eye irritation.

Suspected of causing cancer.

**Prevention:**

Do not handle until all safety precautions have been read and understood.

Wash thoroughly after handling.

Wear eye protection.

**Response:**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical attention.

IF exposed or concerned: Get medical attention.



**Storage and Disposal**

Store locked up.

Dispose of contents and container in accordance with local and national regulations.

**Section 3. Composition/Information On Ingredients**

| Component                           | CAS No.     | Amount   |
|-------------------------------------|-------------|----------|
| Water and non-hazardous ingredients | Mixture     | 50-90%   |
| Anionic Surfactant                  | Proprietary | 5-10%    |
| Nonionic Surfactant                 | Proprietary | 1-5%     |
| Cocamide Diethanolamine             | 68603-42-9  | 0.1-1.3% |
| Diethanolamine                      | 111-42-2    | <0.13%   |

**Section 4. First Aid Measures**

**Eye Contact:** Immediately flush eyes with large quantities of water, holding the eyelids apart. Get medical attention if irritation persists.

**Skin Contact:** This product is intended to contact the skin. If irritation develops, discontinue use and get medical advice.

**Inhalation:** Inhalation overexposure is unlikely, however, if irritation occurs, remove victim to fresh air. Get medical attention if symptoms persist.

**Ingestion:** Not acutely toxic. If a large amount is swallowed, call Poison Control Center or hospital emergency department and follow their instructions. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to or induce vomiting in an unconscious or convulsing person.

**Most important symptoms and effects, acute and delayed:** Causes eye irritation with redness and tearing. This product contains diethanolamine and cocamide diethanolamine which has been shown to cause cancer in laboratory animals. Risk of cancer depends on duration and level of exposure.

**Indication of immediate medical attention and special treatment, if needed:** Treat symptomatically.

**Section 5. Fire Fighting Measures**

**Suitable (and Unsuitable) Extinguishing Media:** Use any extinguishing media that is appropriate for the surrounding fire. Cool fire exposed containers with water.

**Specific Hazards Arising from the Chemical:** None known.

**Special Protective Equipment and Precautions for Fire-fighters:** Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for fires in areas where chemicals are used or stored.



**Section 6: Accidental Release Measures**

**Personal precautions, Protective equipment, and Emergency procedures:** Wear appropriate protective clothing and equipment.

**Methods and Materials for Containment and Cleaning up:** Rinse to sewer with water or wipe up with a paper towel or other absorbent material place in container for disposal.

**Section 7. Handling and Storage**

**Precautions for Safe Handling:** Avoid contact with eyes.

**Conditions for Safe Storage, Including any Incompatibilities:** Store at room temperature.

**Section 8. Exposure Controls / Personal Protection**

**Exposure Limits**

| Chemical                | Exposure Limit                         |
|-------------------------|--|
| Anionic Surfactant      | None Established                       |
| Nonionic Surfactant     | None Established                       |
| Cocamide Diethanolamine | None Established                       |
| Diethanolamine          | 1 mg/m <sup>3</sup> skin TWA ACGIH TLV |

**Appropriate Engineering Controls:** General ventilation should be adequate for normal use.

**Respiratory Protection:** None normally required. For operations where the occupational exposures are excessive, a NIOSH approved respirator with organic vapor/dust/mist cartridges or supplied air respirator appropriate for the form and concentration of the contaminants should be used. Equipment selection depends on contaminant type and concentration. Select in accordance with 29 CFR 1910.134 and good industrial hygiene practice. For firefighting, use self-contained breathing apparatus.

**Hand protection:** This product is intended to contact the skin.

**Eye Protection:** Avoid eye contact. Safety glasses or goggles recommended when handling large amounts and eye contact is possible.

**Skin Protection:** This product is intended to contact the skin.

**Hygiene measures:** None normally needed.



### Section 9. Physical and Chemical Properties

|   |                          |                                  |                           |
|---|--------------------------|----------------------------------|---------------------------|
| <b>Appearance:</b>                              | Green Pearlescent Liquid | <b>Odor:</b>                     | Floral scent              |
| <b>Odor Threshold:</b>                          | Not available            | <b>pH:</b>                       | 6.5-7.8                   |
| <b>Melting/Freezing Point:</b>                  | Not available            | <b>Boiling Point/Range:</b>      | 212-221°F / 100-105°C     |
| <b>Flash Point:</b>                             | Not flammable            | <b>Evaporation Rate:</b>         | Not available             |
| <b>Flammability: (Solid, Gas)</b>               | Not applicable           | <b>Flammability Limits:</b>      | Not applicable            |
| <b>Vapor Pressure:</b>                          | Not available            | <b>Vapor Density:</b>            | Not available             |
| <b>Relative Density:</b>                        | 1.036                    | <b>Solubilities:</b>             | Complete soluble in Water |
| <b>Partition Coefficient: (N-Octanol/Water)</b> | Not available            | <b>Autoignition Temperature:</b> | Not flammable             |
| <b>Decomposition Temperature:</b>               | Not available            | <b>Viscosity:</b>                | Not available             |

### Section 10. Stability and Reactivity

**Reactivity:** None known.  
**Chemical Stability:** Stable.  
**Possibility of Hazardous Reactions:** None known.  
**Conditions to avoid:** None known.  
**Incompatible Materials:** None known.  
**Hazardous decomposition products:** None known.

### Section 11. Toxicological Information

#### Potential Health Effects:

**Inhalation:** Inhalation exposure will not occur in normal use. Inhalation of mists may cause mild nose and throat irritation.

**Skin Contact:** This product is intended to contact the skin and no irritation or other adverse effects are expected.

**Eye Contact:** May cause irritation with redness and tearing.

**Ingestion:** Ingestion may cause gastrointestinal disturbances including nausea and diarrhea.

**Chronic Hazards:** Prolonged skin contact may cause drying of the skin.

**Carcinogen:** Cocamide diethanolamine and diethanolamine have been classified by IARC as "Possibly Carcinogenic to Humans", Group 2B. None of the other component greater than 0.1% is listed as a carcinogen or potential carcinogen by IARC, NTP, ACGIH, or OSHA.



**Acute Toxicity Values:**

Anionic Surfactant: Oral rat LD50 >2000 mg/kg, Dermal rabbit LD50 >2000 mg/kg  
Nonionic Surfactant: Oral rat LD50 >960 mg/kg, Dermal rabbit >2,000 mg/kg, Inhalation rat LC50 1.15 mg/L  
Cocamide Diethanolamine: No toxicity data available  
Diethanolamine: Oral rat LD50 1100 mg/kg

**Section 12. Ecological Information**

This product may be harmful to the aquatic environment based on GHS criteria.

**Toxicity:** No toxicity data available for product.

Anionic Surfactant: 96 hr LC50 danio rerio 4.2 mg/L; 48 hr EC50 daphnia magna 4.53 mg/L, 72 hr EC50 algae 5.2 mg/L

Nonionic Surfactant: 96 hr LC50 Pimephales promelas 3.9-6.2 mg/L, 48 hr LC50 daphnia magna 9.3-21.4 mg/L

**Persistence and degradability:** Nonionic surfactant is inherently biodegradable. Anionic surfactant readily biodegradable.

**Bioaccumulative Potential:** Nonionic surfactant BCF is less than 50. Anionic Surfactant has a BCF of 70.8.

**Mobility in Soil:** No data available.

**Other Adverse Effects:** None known

**Section 13. Disposal Considerations**

**Solution Disposal:** Flush thoroughly with large quantities of water into sewage disposal system in accordance with Federal, State, and local regulations.

**Container Disposal:** Offer for recycling, if available. If recycling is not available, discard in trash.

**Section 14. Transport Information**

|                   | UN Number | UN Proper Shipping Name | Hazard Class(s) | Packing Group | Environmental Hazards |
|-------------------|-----------|-------------------------|-----------------|---------------|-----------------------|
| <b>US DOT</b>     | None      | Not Regulated           |                 |               | None                  |
| <b>EU ADR/RID</b> | None      | Not Regulated           |                 |               | None                  |
| <b>IMDG</b>       | None      | Not Regulated           |                 |               | None                  |
| <b>IATA/ICAO</b>  | None      | Not Regulated           |                 |               | None                  |



**Section 15. Regulatory Information**

**U.S. Federal Regulations:**

**EPA SARA 311/312 Hazard Classification:** Acute Health, Chronic Health

**EPA SARA 313:** This Product Contains the Following Chemicals Subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372): None

**Protection Of Stratospheric Ozone:** This product is not known to contain or to have been manufactured with ozone depleting substances as defined in 40 CFR Part 82, Appendix A to Subpart A.

**CERCLA SECTION 103:** This product is not subject to CERCLA reporting requirements; however, many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

**State Regulations:**

California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

**International Inventories**

**US EPA TSCA Inventory:** All of the components of this product are listed on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory or exempt.

**Canadian Environmental Protection Act:** All of the components in this product are listed on the Domestic Substances List (DSL) or exempt.

**Section 16. Other Information**

NFPA Rating: Fire: 1            Health: 0            Instability: 0

**Effective Date:** November 17, 2014

**Supersedes Date:** October 2, 2003

**Revision Summary:** All sections. Converted to GHS format

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