Section 1: Product and Company Identification

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Vital Oxide</th>
<th>Aqueous Oxidant</th>
</tr>
</thead>
</table>
| Manufacturer          | Vital Solutions, LLC.  
PO Box 9932  
West Palm Beach, FL 33419 |
| Distributor           | NPD Products Ltd.  
2325 Old Second South  
Midhurst, ON L0L 1X0  
877-734-0932  
Represented in Canada by Halifax International Trading Inc.  
S1394 Pineway Court Oakville Ontario L6M 2H3 (DIN 24422654) |
| Phone Numbers         |             |
| Product Information   | (561) 848-1717 |
| Medical Emergency     | (800) 222-1222 |

Section 2: Composition/ Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS Number</th>
<th>Wt %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oxychlorine Compounds</td>
<td>Mixture</td>
<td>0.200</td>
</tr>
<tr>
<td>n-Alkyl Dimethyl Benzyl Ammonium Chloride</td>
<td>68391-01-5</td>
<td>0.125</td>
</tr>
<tr>
<td>n-Alkyl Dimethyl Ethylbenzyl Ammonium Chloride</td>
<td>68956-79-6</td>
<td>0.125</td>
</tr>
<tr>
<td>Inert Ingredients</td>
<td>Mixture</td>
<td>99.55</td>
</tr>
</tbody>
</table>

At these concentrations none of the ingredients are known to pose any hazards to human health.

Section 3: Hazards Identification

Emergency Overview

Colorless liquid with mild fresh odor. Avoid contact with eyes. Keep out of reach of children.

<table>
<thead>
<tr>
<th>HMIS Rating</th>
<th>Health</th>
<th>Flammability</th>
<th>Reactivity</th>
<th>PPE: None</th>
</tr>
</thead>
</table>

Potential Health Effects

**Eye Contact**: Eye contact may cause mild eye irritation with discomfort.

**Skin Contact**: Does NOT cause skin irritation and the product is NOT skin sensitizer.

**Inhalation**: Does NOT cause any respiratory irritation. If consumer product accidentally contacts strong acids in restricted ventilation area, avoid breathing the vapors and allow adequate time for the vapors to disperse before re-entering the restricted area.

**Ingestion**: Non-Toxic
Section 4: First Aid Measures

Inhalation
Does NOT cause any respiratory irritation. If consumer product accidentally contacts strong acids in restricted ventilation area, avoid breathing the vapors, and allow adequate time for the vapors to disperse before re-entering the restricted area.

Skin Contact
Does NOT cause skin irritation.

Eye Contact
In case of contact, flush eyes with plenty of water.

Ingestion
Non-toxic. Give a glass of water.

Section 5: Fire Fighting Measures

Flammable Properties: Flash Point: Not Available (Non Flammable)
Flammable Limits: Lower Flammable Limit: Not Established
Burn Rate: Unknown
Upper Flammable Limit: Not Established
Flammability Classification: Non-Flammable liquid Auto ignition Temperature: Not Established
Hazardous Combustion Products: Thermal or other decomposition may yield chlorine dioxide or chlorine.
Extinguishing Media: N/A (Non-Flammable liquid) Additional Considerations: None
FIRE FIGHTING INSTRUCTIONS: Non-Flammable liquid
NFPA Rating: Health: 0 Flammability: 0 Reactivity: 0 PPE: B

Section 6: Accidental Release Measures

Spill Clean-Up
No special clean-up measures are required for the consumer product. To avoid the possibility of "bleaching" the spill should be absorbed with paper towels, and the area rinsed with clean water.

Accidental Release Measures
Spills are slippery and should be cleaned up promptly

Section 7: Handling and Storage

Handling: Keep away from heat and strong acids. Do not ingest. Keep container closed. Use only with adequate ventilation.

Storage: Keep container tightly closed and sealed until ready for use. Keep container in a well-ventilated place. Do not store above 120°F or near fire of open flame. Store large quantities in buildings to comply with OSHA 1910.106. Do not transfer contents to bottles or other unlabeled containers. Do not reuse empty containers. Keep out of reach of children.

Incompatible materials: Strong acids
Special Packaging Materials: None

MSDS No: VOCA010119
Section 8: Exposure Control/ Personal Protection

Engineering Controls: Use in adequately ventilated areas.

Personal Protective Equipment:

Eye/Face Protection: Not required for consumer product.

Skin Protection: Not required for consumer product.

Respirators: None required for normal use. If consumer product accidentally contacts strong acids in restricted ventilation area, avoid breathing the vapors, and allow adequate time for the vapors to disperse before re-entering the restricted area.

Exposure Limits:

Oxychlorine Compounds: n-Alkyl Dimethyl Ethylbenzyl Ammonium Chloride:

PEL (OSHA): Not available  PEL (OSHA): Not available
TLV (ACGIH): Not available  TLV (ACGIH): Not available

n-Alkyl Dimethyl Benzyl Ammonium Chloride:

PEL (OSHA): Not available
TLV (ACGIH): Not available

Section 9: Physical and Chemical Properties

Appearance: Colorless liquid
Physical State: Liquid
Boiling Point (°F): 212
Freezing Point (°F): 32
Volatile Organic Compounds (VOC): None
Specific Gravity: 1.003 @ 68°F (20°C)
Odor: Mild-Fresh
pH: 8 - 9
Solubility in Water: 100%
Vapor Pressure (mm Hg): Not Available
Evaporation Rate: Less than Ether
Density (lb/gal): 8.40 @ 68°F (20°C)

Section 10: Stability and Reactivity

Chemical Stability: The product is stable.

Incompatibility with other Materials: Strong acids

Conditions to avoid: Contact with strong acids

Hazardous Polymerization: Will not occur.

Hazardous Decomposition Products: Thermal or other decomposition may yield chlorine dioxide or chlorine.

Section 11: Toxicological Information

TOXICITY TESTING – ACUTE Inhalation – Studies with Wistar Albino rats exposed to a respirable aerosol made from a solution of Vital Oxide at a level of 2.08 mg/l for four hours resulted in no deaths and no abnormal necropsy observations. Eye Contact – Studies with New Zealand white rabbits showed this product is a very mild ocular irritant; mild conjunctival irritation was observed, but cleared within 72 hours. Skin Contact – Study of dermal toxicity in New Zealand white rabbits showed the product to be non-toxic: Dermal LD50> 5.000 mg/kg of body weight; Study of dermal irritation in New Zealand white rabbits showed the product is not a dermal irritant. In Dermal Sensitization studies, Vital Oxide was determined not to be a sensitizer. Swallowing - Acute oral toxicity in albino rats: Non-toxic LD50>5,000 mg/kg of body weight.

EPA TOXICITY RATING – IV (For all exposure routes except for mild eye irritation) This is the lowest category on the scale and is designed for substances that are the least hazardous.
Section 12: Ecological Information

Environmental Hazards: Not data available.
Environmental Fate: Not data available.

Section 13: Disposal Considerations

Waste Disposal: Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial and Local regulations.

Section 14: Transport Information

Shipping Information: Not regulated by DOT, IMO/IMDG and IATA/ICAO for ground, air or ocean shipments.

Section 15: Regulatory Information

U.S. Federal Regulations:

TSCA: All components appear in TSCA Inventory
OSHA: Refer to Section 8 for exposure limits.

CERCLA SARA Hazard Category:

Section 311 and 312: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories: Information not available.

Section 313: This product contains following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372: None

State regulations:
State Right to Know information is not provided. California prop. 65 (no significant risk level): None

International Regulations:
Canadian WHMIS: Not controlled. Canadian Environmental Protection Act (CEPA): Additional information available upon request. EU Regulations: Additional information available upon request.

Section 16: Other Information

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