SECTION 1: IDENTIFICATION

1.1. Product Identifier
   Product Form: Mixture
   Product Name: KOVA Liqua-Trol® I Abnormal (120mL and 15mL)
   Product Component: 37036, 87112, 87112E, 87110, 87111, 87176, 87177, 87222, 87228, 87111E, 87176E, 87177E, 87228E

1.2. Intended Use of the Product: No additional information available

1.3. Name, Address, and Telephone of Manufacturer/Supplier
   Kova International, Inc.
   7272 Chapman Avenue, Suite B
   Garden Grove, CA 92841
   Tel: 1-714-902-1700
   Fax: 1-714-908-7945
   Business hours: (8:00 a.m. - 5:00 p.m., PST, Monday - Friday)

1.4. Emergency Telephone Number
   Emergency Number: Contact your local Poison Center

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture
   GHS-US Classification
   Resp. Sens. 1 H334
   Skin Sens. 1 H317
   Full text of hazard classes and H-statements: see section 16

2.2. Label Elements
   GHS-US Labeling
   Hazard Pictograms (GHS-US)
   Signal Word (GHS-US): Danger
                                 H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
   Precautionary Statements (GHS-US)
   P261 - Avoid breathing vapors, mist, or spray.
   P272 - Contaminated work clothing must not be allowed out of the workplace.
   P280 - Wear protective gloves, protective clothing, and eye protection.
   P284 - [In case of inadequate ventilation] wear respiratory protection.
   P302+P352 - If on skin: Wash with plenty of water.
   P304+P340 - If inhaled: Remove person to fresh air and keep at rest in a position comfortable for breathing.
   P321 - Specific treatment (see section 4 on this SDS).
   P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
   P342+P311 - If experiencing respiratory symptoms: Call a poison center or doctor.
   P363 - Wash contaminated clothing before reuse.
   P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

2.3. Other Hazards
   Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

2.4. Unknown Acute Toxicity (GHS-US)
   No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance
   Not applicable
### Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product Identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Water</strong></td>
<td>(CAS No) 7732-18-5</td>
<td>91.055422</td>
<td>Not classified</td>
</tr>
<tr>
<td>1-Piperazineethanesulfonic acid, 4-(2-hydroxyethyl)-, monosodium salt</td>
<td>(CAS No) 75277-39-3</td>
<td>2.38</td>
<td>Not classified</td>
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<tr>
<td><strong>Urine, Human</strong></td>
<td>(CAS No) Not applicable</td>
<td>0.99399</td>
<td>Not classified</td>
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<tr>
<td><strong>Potassium chloride</strong></td>
<td>(CAS No) 7447-40-7</td>
<td>0.9</td>
<td>Not classified</td>
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<td><strong>Glucose</strong></td>
<td>(CAS No) 50-99-7</td>
<td>0.6</td>
<td>Comb. Dust</td>
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<tr>
<td><strong>Albumins, blood serum</strong></td>
<td>(CAS No) 9048-46-8</td>
<td>0.55</td>
<td>Comb. Dust</td>
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<tr>
<td><strong>Methyl acetoacetate, monosodium salt</strong></td>
<td>(CAS No) 34284-28-1</td>
<td>0.2</td>
<td>Skin Irr. 2, H315</td>
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<tr>
<td>4H-Imidazol-4-one, 2-amino-1,5-dihydro-1-methyl-</td>
<td>(CAS No) 60-27-5</td>
<td>0.2</td>
<td>Skin Irr. 2A, H319</td>
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<tr>
<td><strong>Disodium 6,6’-dihydroxy-3,3’-(4,5,6,7-tetrabromo-1,3-dihydro-3-oxoisobenzofuran-1-ylidene)dibenzenesulphonate</strong></td>
<td>(CAS No) 123359-42-2</td>
<td>0.165</td>
<td>Resp. Sens. 1, H334</td>
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<tr>
<td><strong>Hydrochloric acid</strong>*</td>
<td>(CAS No) 7647-01-0</td>
<td>&lt; 0.12587</td>
<td>Met. Corr. 1, H290</td>
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<tr>
<td><strong>Sodium hydroxide</strong>*</td>
<td>(CAS No) 1310-73-2</td>
<td>&lt; 0.113</td>
<td>Met. Corr. 1, H290</td>
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<tr>
<td>Esterase, carboxyl</td>
<td>(CAS No) 9016-18-6</td>
<td>0.071</td>
<td>Resp. Sens. 1, H334</td>
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<tr>
<td>Phenol, 4,4’-(3H-2,1-benzoxathiol-3-ylidene)bis[5-methyl-2-(1-methylethyl)-, S,S-dioxide, monosodium salt</td>
<td>(CAS No) 62625-21-2</td>
<td>0.022</td>
<td>Resp. Sens. 1, H334</td>
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<tr>
<td><strong>Monopotassium carbonate</strong></td>
<td>(CAS No) 298-14-6</td>
<td>0.008</td>
<td>Not classified</td>
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<tr>
<td><strong>Sodium nitrite</strong></td>
<td>(CAS No) 7632-00-0</td>
<td>0.0075</td>
<td>Ox. Sol. 2, H272</td>
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<tr>
<td><strong>Magnesium nitrate</strong></td>
<td>(CAS No) 10377-60-3</td>
<td>&lt; 0.0060126</td>
<td>Acute Tox. 3 (Oral), H301</td>
</tr>
<tr>
<td>1H-Pyrrole</td>
<td>(CAS No) 109-97-7</td>
<td>0.005</td>
<td>Acute Tox. 3 (Oral), H301</td>
</tr>
<tr>
<td>1-Naphthalenesulfonic acid, 8-(phenylamino)-, monoammonium salt</td>
<td>(CAS No) 28836-03-5</td>
<td>0.005</td>
<td>Acute Tox. 4 (Inhalation:dust,mist), H332</td>
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<tr>
<td>3(2H)-Isothiazolone, 5-chloro-2-methyl-</td>
<td>(CAS No) 26172-55-4</td>
<td>&lt; 0.0030063</td>
<td>Acute Tox. 3 (Oral), H301</td>
</tr>
</tbody>
</table>
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<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>EC Number</th>
<th>H-Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>3(2H)-Isothiazolone, 2-methyl-</td>
<td>2682-20-4</td>
<td>&lt; 0.0030063</td>
<td>Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation: dust, mist), H331 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 1, H400</td>
</tr>
<tr>
<td>N-(1-Naphthyl)ethylenediamine dihydrochloride</td>
<td>1465-25-4</td>
<td>0.003</td>
<td>Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335</td>
</tr>
<tr>
<td>Sodium phosphate dibasic</td>
<td>7558-79-4</td>
<td>0.003</td>
<td>Not classified</td>
</tr>
<tr>
<td>Phosphoric acid, potassium salt (1:1)</td>
<td>7778-77-0</td>
<td>0.002</td>
<td>Not classified</td>
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<tr>
<td>Potassium ferricyanide</td>
<td>13746-66-2</td>
<td>0.0016</td>
<td>Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335</td>
</tr>
<tr>
<td>Hemoglobin</td>
<td>9008-02-0</td>
<td>0.0015</td>
<td>Comb. Dust</td>
</tr>
<tr>
<td>Ethanedioic acid, diammonium salt, monohydrate</td>
<td>6009-70-7</td>
<td>0.00072</td>
<td>Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1B, H314 Eye Dam. 1, H318</td>
</tr>
<tr>
<td>Potassium cyanide</td>
<td>151-50-8</td>
<td>0.0004</td>
<td>Met. Corr. 1, H290 Acute Tox. 1 (Oral), H300 Acute Tox. 1 (Dermal), H310 Acute Tox. 1 (Inhalation: gas), H330 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Resp. Sens. 1A, H334 Skin Sens. 1A, H317 Repr. 1B, H360</td>
</tr>
<tr>
<td>Gentamicin</td>
<td>1403-66-3</td>
<td>0.00016</td>
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<tr>
<td>Calcium chloride</td>
<td>10043-52-4</td>
<td>0.00013</td>
<td>Eye Irrit. 2A, H319</td>
</tr>
<tr>
<td>Calcium hydroxide phosphate (Ca5(OH)(PO4)3)</td>
<td>12167-74-7</td>
<td>0.000015</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

Full text of H-phrases: see section 16

* These components are added to adjust pH as necessary.

SECTION 4: FIRST AID MEASURES

4.1. Description of First-aid Measures

First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid Measures After Inhalation: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

First-aid Measures After Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.

First-aid Measures After Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

First-aid Measures After Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

Symptoms/Injuries: May cause allergy or asthma symptoms or breathing difficulties if inhaled. Skin sensitization.

Symptoms/Injuries After Inhalation: Exposure may produce cough, mucous secretions, shortness of breath, chest tightness or other symptoms indicative of an allergic/sensitization reaction.

Symptoms/Injuries After Skin Contact: May cause an allergic skin reaction.

Symptoms/Injuries After Eye Contact: May cause slight irritation to eyes.
Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: None known.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed
If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media
Suitable Extinguishing Media: Water spray, dry chemical, foam, carbon dioxide.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special Hazards Arising From the Substance or Mixture
Fire Hazard: Not considered flammable but may burn at high temperatures.

Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

5.3. Advice for Firefighters
Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers. Remove containers from fire area if this can be done without risk. Do not breathe fumes from fires or vapors from decomposition.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.


SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures
General Measures: Do not breathe vapor, mist or spray. Do not get in eyes, on skin, or on clothing.

6.1.1. For Non-Emergency Personnel
Protective Equipment: Use appropriate personal protection equipment (PPE).


6.1.2. For Emergency Personnel
Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

6.2. Environmental Precautions
Prevent entry to sewers and public waters.

6.3. Methods and Materials for Containment and Cleaning Up
For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Ventilate area. Absorb and/or contain spill with inert material. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

6.4. Reference to Other Sections
See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling
Precautions for Safe Handling: Do not handle until all safety precautions have been read and understood. Avoid prolonged contact with eyes, skin and clothing. Avoid breathing vapors, mist, and spray. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash contaminated clothing before reuse.

7.2. Conditions for Safe Storage, Including Any Incompatibilities
Technical Measures: Comply with applicable regulations.

Storage Conditions: Keep container closed when not in use. Keep only in original container. Store in a dry, cool and well-ventilated place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.


Storage Temperature: 2 - 8 °C (35.6 to 46.4°F)
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7.3. Specific End Use(s): No additional information available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

<table>
<thead>
<tr>
<th>Substance</th>
<th>ACGIH Ceiling (mg/m³)</th>
<th>ACGIH chemical category</th>
<th>NIOSH REL (ceiling) (mg/m³)</th>
<th>NIOSH REL (ceiling) (ppm)</th>
<th>IDLH (mg/m³)</th>
<th>IDLH (ppm)</th>
<th>OSHA PEL (ceiling) (mg/m³)</th>
<th>OSHA PEL (ceiling) (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium cyanide (151-50-8)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>USA ACGIH</td>
<td>ACGIH Ceiling (mg/m³)</td>
<td>5 mg/m³</td>
<td>ACGIH chemical category</td>
<td>Skin - potential significant contribution to overall exposure by the cutaneous route</td>
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<td>USA NIOSH</td>
<td>NIOSH REL (ceiling) (mg/m³)</td>
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<td></td>
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</tr>
<tr>
<td>USA IDLH</td>
<td>US IDLH (ppm)</td>
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<tr>
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<td>OSHA PEL (ceiling) (mg/m³)</td>
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<td>OSHA PEL (ceiling) (ppm)</td>
<td>5 ppm</td>
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<td>Sodium hydroxide (1310-73-2)</td>
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<td></td>
<td></td>
</tr>
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<td>USA ACGIH</td>
<td>ACGIH Ceiling (mg/m³)</td>
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<td>ACGIH chemical category</td>
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<tr>
<td>USA NIOSH</td>
<td>NIOSH REL (ceiling) (mg/m³)</td>
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<td>NIOSH REL (ceiling) (ppm)</td>
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<td>OSHA PEL (TWA) (ppm)</td>
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<td></td>
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</tr>
</tbody>
</table>

8.2. Exposure Controls

Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Local exhaust and general ventilation must be adequate to meet exposure standards. Site-specific risk assessments should be conducted to determine the appropriate exposure control measures. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. Ensure all national/local regulations are observed.


Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear protective gloves.

Eye Protection: Chemical safety goggles.

Skin and Body Protection: Wear suitable protective clothing. In laboratory, medical or industrial settings, impervious disposable gloves and protective clothing are recommended if skin contact is possible.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Environmental Exposure Controls: Avoid release to the environment.

Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State: Liquid
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Appearance: Amber, red
Odor: No data available
Odor Threshold: No data available
pH: 7.5 - 8
Evaporation Rate: No data available
Melting Point: No data available
Freezing Point: No data available
Boiling Point: ≈ 100 °C (≈ 212 °F)
Flash Point: No data available
Auto-ignition Temperature: No data available
Decomposition Temperature: No data available
Flammability (solid, gas): No data available
Vapor Pressure: No data available
Relative Vapor Density at 20°C: No data available
Relative Density: No data available
Solubility: Soluble in water.
Partition Coefficient: N-Octanol/Water: No data available
Viscosity: No data available

9.2. Other Information  No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity: Hazardous reactions will not occur under normal conditions.
10.2. Chemical Stability: Stable under recommended handling and storage conditions (see section 7).
10.3. Possibility of Hazardous Reactions: Hazardous polymerization will not occur.
10.4. Conditions to Avoid: Direct sunlight, extremely high or low temperatures, and incompatible materials.
10.6. Hazardous Decomposition Products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects

Acute Toxicity: Not classified

<table>
<thead>
<tr>
<th>Substance</th>
<th>Route of Exposure</th>
<th>LD50 Oral</th>
<th>LC50 Inhalation Rat</th>
<th>ATE (Oral)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium chloride (7647-14-5)</td>
<td>Oral</td>
<td>3 g/kg</td>
<td>&gt; 42 g/m³ (1 h)</td>
<td>3,000.00 mg/kg</td>
</tr>
<tr>
<td>Potassium chloride (7447-40-7)</td>
<td>Oral</td>
<td>2600 mg/kg</td>
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<td></td>
</tr>
<tr>
<td>Glucose (50-99-7)</td>
<td>Oral</td>
<td>25800 mg/kg</td>
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</tr>
<tr>
<td>Magnesium nitrate (10377-60-3)</td>
<td>Oral</td>
<td>85 mg/kg</td>
<td>5.5 mg/l/4h</td>
<td></td>
</tr>
</tbody>
</table>

**ATE** (Oral): 3,000.00 mg/kg body weight. **ATE** (Dust/Mist): 1.50 mg/l/4h.
## KOVA Liqua-Trol® I Abnormal (120mL and 15mL)

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### 3(2H)-Isothiazolone, 5-chloro-2-methyl- (26172-55-4)

<table>
<thead>
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<th>Endpoint</th>
<th>Value</th>
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</thead>
<tbody>
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<tr>
<td>LC50 Inhalation Rat</td>
<td>1.23 mg/l/4h</td>
</tr>
<tr>
<td>ATE (Oral)</td>
<td>100.00 mg/kg body weight</td>
</tr>
<tr>
<td>ATE (Dermal)</td>
<td>300.00 mg/kg body weight</td>
</tr>
</tbody>
</table>

### 3(2H)-Isothiazolone, 2-methyl- (2682-20-4)

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Value</th>
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<tbody>
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<td>ATE (Oral)</td>
<td>100.00 mg/kg body weight</td>
</tr>
<tr>
<td>ATE (Dermal)</td>
<td>300.00 mg/kg body weight</td>
</tr>
<tr>
<td>ATE (Dust/Mist)</td>
<td>0.50 mg/l/4h</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Substance</th>
<th>LD50 Oral Rat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrochloric acid (7647-01-0)</td>
<td>&gt; 5010 mg/kg</td>
</tr>
<tr>
<td>Gentamicin (1403-66-3)</td>
<td>6600 mg/kg</td>
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</table>

### LD50 Dermal Rabbit

<table>
<thead>
<tr>
<th>Substance</th>
<th>Value</th>
</tr>
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<tbody>
<tr>
<td>Sodium phosphate dibasic (7558-79-4)</td>
<td>&gt; 2000 mg/kg</td>
</tr>
<tr>
<td>Calcium chloride (10043-52-4)</td>
<td>2301 (1455 - 2781) mg/kg</td>
</tr>
<tr>
<td>Ethanedioic acid, diammonium salt, monohydrate (6009-70-7)</td>
<td>&gt; 5000 mg/kg</td>
</tr>
</tbody>
</table>

### ATE (Oral)

<table>
<thead>
<tr>
<th>Substance</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrochloric acid (7647-01-0)</td>
<td>500.00 mg/kg body weight</td>
</tr>
<tr>
<td>ATE (Dermal)</td>
<td>1,100.00 mg/kg body weight</td>
</tr>
</tbody>
</table>

### Skin Corrosion/Irritation

- Not classified

### pH

- 7.5 - 8

### Serous Eye Damage/Irritation

- Not classified

### Respiratory or Skin Sensitization

- May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

### Germ Cell Mutagenicity

- Not classified

### Carcinogenicity

- Not classified

### Hydrochloric acid (7647-01-0)

<table>
<thead>
<tr>
<th>IARC group</th>
<th>3</th>
</tr>
</thead>
</table>

### Reproductive Toxicity

- Not classified

### Specific Target Organ Toxicity (Single Exposure)

- Not classified

### Specific Target Organ Toxicity (Repeated Exposure)

- Not classified

### Aspiration Hazard

- Not classified

### Symptoms/Injuries After Inhalation

- Exposure may produce cough, mucous secretions, shortness of breath, chest tightness or other symptoms indicative of an allergic/sensitization reaction.

### Symptoms/Injuries After Skin Contact

- May cause an allergic skin reaction.

### Symptoms/Injuries After Eye Contact

- May cause slight irritation to eyes.

### Symptoms/Injuries After Ingestion

- Ingestion may cause adverse effects.

### Chronic Symptoms

- None known.

### SECTION 12: ECOLOGICAL INFORMATION

#### 12.1. Toxicity

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium chloride (7647-14-5)</td>
<td>5560 (5560 - 6080) mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through])</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)</td>
</tr>
<tr>
<td>LC50 Fish 2</td>
<td>12946 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])</td>
</tr>
<tr>
<td>EC50 Daphnia 2</td>
<td>340.7 (340.7 - 469.2) mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])</td>
</tr>
<tr>
<td>Potassium chloride (7447-40-7)</td>
<td></td>
</tr>
</tbody>
</table>

---

**SDS 03A.4**  
EN (English US)  
7/20
According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### KOVA Liqua-Trol® I Abnormal (120mL and 15mL)

#### LC50 Fish 1
- 1060 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])

#### EC50 Daphnia 1
- 825 mg/l (Exposure time: 48 h - Species: Daphnia magna)

#### LC50 Fish 2
- 750 (750 - 1020) mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])

#### EC50 Daphnia 2
- 880 mg/l (Exposure time: 24 h - Species: Daphnia magna)

#### Potassium cyanide (151-50-8)
- LC50 Fish 1: 0.04 - 0.046 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])
- EC50 Daphnia 1: 0.113 mg/l
- LC50 Fish 2: 0.044 - 0.084 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])

#### Sodium nitrite (7632-00-0)
- LC50 Fish 1: 0.19 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])
- LC50 Fish 2: 0.092 - 0.13 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])

#### 1H-Pyrrole (109-97-7)
- LC50 Fish 1: 197 - 224 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])

#### 3(2H)-Isothiazolone, 5-chloro-2-methyl-(26172-55-4)
- LC50 Fish 1: 1.6 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static])
- EC50 Daphnia 1: 4.71 mg/l (Exposure time: 48 h - Species: Daphnia magna)
- EC50 Daphnia 2: 0.12 (0.12 - 0.3) mg/l (Exposure time: 48 h - Species: Daphnia magna [Flow through])

#### Hydrochloric acid (7647-01-0)
- LC50 Fish 1: 7.45 mg/l (Species: Oncorhynchus mykiss - Exposure time: 96h)

#### Calcium chloride (10043-52-4)
- BCF Fish 1: (no bioaccumulation)

#### Sodium chloride (7647-14-5)
- LC50 Fish 1: 45.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
- EC50 Daphnia 1: 40 mg/l

#### Sodium hydroxide (1310-73-2)
- LC50 Fish 1: 40 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
- EC50 Daphnia 1: 40 mg/l

#### Calcium chloride (10043-52-4)
- BCF Fish 1: (no bioaccumulation)

### 12.2. Persistence and Degradability

**KOVA Liqua-Trol® I Abnormal (120mL and 15mL)**

**Persistence and Degradability**: Not established.

### 12.3. Bioaccumulative Potential

**KOVA Liqua-Trol® I Abnormal (120mL and 15mL)**

**Bioaccumulative Potential**: Not established.

**Sodium chloride (7647-14-5)**
- (no bioaccumulation)

**Sodium nitrite (7632-00-0)**
- Log Pow: -3.7 (at 25 °C)

**1H-Pyrrole (109-97-7)**
- Log Pow: 0.75

**3(2H)-Isothiazolone, 5-chloro-2-methyl-(26172-55-4)**
- Log Pow: -0.71 - 0.75 (at 20 °C)

**Calcium chloride (10043-52-4)**
- (no bioaccumulation)

### 12.4. Mobility in Soil

No additional information available

### 12.5. Other Adverse Effects

**Other Information**: Avoid release to the environment.

### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1. Waste Treatment Methods

**Waste Disposal Recommendations**: Dispose of contents/container in accordance with local, regional, national, and international regulations.

**Additional Information**: Container may remain hazardous when empty. Continue to observe all precautions.

**Ecology - Waste Materials**: Avoid release to the environment.
SECTION 14: TRANSPORT INFORMATION
The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

14.1. In Accordance with DOT
Not regulated for transport

14.2. In Accordance with IMDG
Not regulated for transport

14.3. In Accordance with IATA
Not regulated for transport

SECTION 15: REGULATORY INFORMATION

15.1. US Federal Regulations

KOVA Liqua-Trol® I Abnormal (120mL and 15mL)

SARA Section 311/312 Hazard Classes
Immediate (acute) health hazard

1-Piperazinethanesulfonic acid, 4-(2-hydroxyethyl)-, monosodium salt (75277-39-3)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

EPA TSCA Regulatory Flag
P - P - indicates a commenced PMN substance

Sodium chloride (7647-14-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Potassium chloride (7447-40-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

4H-Imidazol-4-one, 2-amino-1,5-dihydro-1-methyl- (60-27-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Glucose (50-99-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Hemoglobins (9008-02-0)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Water (7732-18-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Monopotassium carbonate (298-14-6)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Potassium ferricyanide (13746-66-2)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Potassium cyanide (151-50-8)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on the United States SARA Section 302

CERCLA RQ
10 lb

SARA Section 302 Threshold Planning Quantity (TPQ)
100 lb (This material is a reactive solid. The TPQ does not default to 10000 pounds for non-powder, non-molten, non-solution form)

Esterase, carboxyl (9016-18-6)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

EPA TSCA Regulatory Flag
XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e, Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C))

Sodium nitrite (7632-00-0)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Subject to reporting requirements of United States SARA Section 313

CERCLA RQ
100 lb

SARA Section 313 - Emission Reporting
1.0 %

Albumins, blood serum (9048-46-8)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

EPA TSCA Regulatory Flag
XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e, Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C))

1H-Pyrrole (109-97-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Phenol, 4,4’-(3H-2,1-benzothiazol-3-ylidene)bis[5-methyl-2-(1-methylethyl)-, S,S-dioxide, monosodium salt (62625-21-2)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

1-Naphthalenesulfonic acid, 8-(phenylamino)-, monoammonium salt (28836-03-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Magnesium nitrate (10377-60-3)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

3(2H)-Isothiazolone, 5-chloro-2-methyl- (26172-55-4)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

EPA TSCA Regulatory Flag | P - P - indicates a commenced PMN substance
SP

3(2H)-Isothiazolone, 2-methyl- (2682-20-4)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

EPA TSCA Regulatory Flag | P - P - indicates a commenced PMN substance
SP

Hydrochloric acid (7647-01-0)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on the United States SARA Section 302
Subject to reporting requirements of United States SARA Section 313

EPA TSCA Regulatory Flag | T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA

CERCLA RQ | 5000 lb

SARA Section 302 Threshold Planning Quantity (TPQ) | 500 lb (gas only)

SARA Section 313 - Emission Reporting | 1.0 % (acid aerosols including mists, vapors, gas, fog, and other airborne forms of any particle size)

Sodium hydroxide (1310-73-2)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

CERCLA RQ | 1000 lb

Sodium phosphate dibasic (7558-79-4)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

CERCLA RQ | 5000 lb

Phosphoric acid, potassium salt (1:1) (7778-77-0)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Calcium chloride (10043-52-4)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Ethanedioic acid, diammonium salt, monohydrate (6009-70-7)

N-(1-Naphthyl)ethylenediamine dihydrochloride (1465-25-4)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. US State Regulations

Potassium cyanide (151-50-8)
U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
U.S. - Pennsylvania - RTK (Right to Know) List

Sodium nitrite (7632-00-0)
U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
U.S. - Pennsylvania - RTK (Right to Know) List

1H-Pyrole (109-97-7)
U.S. - Massachusetts - Right To Know List
U.S. - Pennsylvania - RTK (Right to Know) List

Magnesium nitrate (10377-60-3)
KOVA Liqua-Trol® I Abnormal (120mL and 15mL)  
Safety Data Sheet  
According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

U.S. - Massachusetts - Right To Know List  
U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List  

Hydrochloric acid (7647-01-0)  
U.S. - Massachusetts - Right To Know List  
U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List  
U.S. - Pennsylvania - RTK (Right to Know) List  

Sodium hydroxide (1310-73-2)  
U.S. - Massachusetts - Right To Know List  
U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List  
U.S. - Pennsylvania - RTK (Right to Know) List  

Sodium phosphate dibasic (7558-79-4)  
U.S. - Massachusetts - Right To Know List  
U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List  
U.S. - Pennsylvania - RTK (Right to Know) List  

Ethanedioic acid, diammonium salt, monohydrate (6009-70-7)  
U.S. - Massachusetts - Right To Know List  
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List  
U.S. - Pennsylvania - RTK (Right to Know) List  

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION  
Revision Date: 09/16/2016  
Other Information: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200

GHS Full Text Phrases:

<table>
<thead>
<tr>
<th>Acute Tox. 1 (Dermal)</th>
<th>Acute toxicity (dermal) Category 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox. 1 (Inhalation:gas)</td>
<td>Acute toxicity (inhalation:gas) Category 1</td>
</tr>
<tr>
<td>Acute Tox. 1 (Oral)</td>
<td>Acute toxicity (oral) Category 1</td>
</tr>
<tr>
<td>Acute Tox. 3 (Dermal)</td>
<td>Acute toxicity (dermal) Category 3</td>
</tr>
<tr>
<td>Acute Tox. 3 (Inhalation: dust,mist)</td>
<td>Acute toxicity (inhalation:dust,mist) Category 3</td>
</tr>
<tr>
<td>Acute Tox. 3 (Oral)</td>
<td>Acute toxicity (oral) Category 3</td>
</tr>
<tr>
<td>Acute Tox. 4 (Dermal)</td>
<td>Acute toxicity (dermal) Category 4</td>
</tr>
<tr>
<td>Acute Tox. 4 (Inhalation: dust,mist)</td>
<td>Acute toxicity (inhalation:dust,mist) Category 4</td>
</tr>
<tr>
<td>Acute Tox. 4 (Oral)</td>
<td>Acute toxicity (oral) Category 4</td>
</tr>
<tr>
<td>Aquatic Acute 1</td>
<td>Hazardous to the aquatic environment - Acute Hazard Category 1</td>
</tr>
<tr>
<td>Aquatic Acute 2</td>
<td>Hazardous to the aquatic environment - Acute Hazard Category 2</td>
</tr>
<tr>
<td>Aquatic Acute 3</td>
<td>Hazardous to the aquatic environment - Acute Hazard Category 3</td>
</tr>
<tr>
<td>Aquatic Chronic 1</td>
<td>Hazardous to the aquatic environment - Chronic Hazard Category 1</td>
</tr>
<tr>
<td>Comb. Dust</td>
<td>Combustible Dust</td>
</tr>
<tr>
<td>Eye Dam. 1</td>
<td>Serious eye damage/eye irritation Category 1</td>
</tr>
<tr>
<td>Eye Irrit. 2A</td>
<td>Serious eye damage/eye irritation Category 2A</td>
</tr>
<tr>
<td>Flam. Liq. 3</td>
<td>Flammable liquids Category 3</td>
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<tr>
<td>Met. Corr. 1</td>
<td>Corrosive to metals Category 1</td>
</tr>
<tr>
<td>Ox. Sol. 2</td>
<td>Oxidizing solids Category 2</td>
</tr>
<tr>
<td>Ox. Sol. 3</td>
<td>Oxidizing solids Category 3</td>
</tr>
<tr>
<td>Repr. 1B</td>
<td>Reproductive toxicity Category 1B</td>
</tr>
<tr>
<td>Resp. Sens. 1</td>
<td>Respiratory sensitisation Category 1</td>
</tr>
<tr>
<td>Resp. Sens. 1A</td>
<td>Respiratory sensitisation Category 1A</td>
</tr>
<tr>
<td>Skin Corr. 1A</td>
<td>Skin corrosion/irritation Category 1A</td>
</tr>
<tr>
<td>Property</td>
<td>Description</td>
</tr>
<tr>
<td>--------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Skin Corr. 1B</td>
<td>Skin corrosion/irritation Category 1B</td>
</tr>
<tr>
<td>Skin Irrit. 2</td>
<td>Skin corrosion/irritation Category 2</td>
</tr>
<tr>
<td>Skin Sens. 1</td>
<td>Skin sensitization Category 1</td>
</tr>
<tr>
<td>Skin Sens. 1A</td>
<td>Skin sensitization Category 1A</td>
</tr>
<tr>
<td>STOT RE 1</td>
<td>Specific target organ toxicity (repeated exposure) Category 1</td>
</tr>
<tr>
<td>STOT SE 3</td>
<td>Specific target organ toxicity (single exposure) Category 3</td>
</tr>
<tr>
<td>H226</td>
<td>Flammable liquid and vapor</td>
</tr>
<tr>
<td>H272</td>
<td>May intensify fire; oxidizer</td>
</tr>
<tr>
<td>H290</td>
<td>May be corrosive to metals</td>
</tr>
<tr>
<td>H300</td>
<td>Fatal if swallowed</td>
</tr>
<tr>
<td>H301</td>
<td>Toxic if swallowed</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H310</td>
<td>Fatal in contact with skin</td>
</tr>
<tr>
<td>H311</td>
<td>Toxic in contact with skin</td>
</tr>
<tr>
<td>H312</td>
<td>Harmful in contact with skin</td>
</tr>
<tr>
<td>H314</td>
<td>Causes severe skin burns and eye damage</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>H317</td>
<td>May cause an allergic skin reaction</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>H330</td>
<td>Fatal if inhaled</td>
</tr>
<tr>
<td>H331</td>
<td>Toxic if inhaled</td>
</tr>
<tr>
<td>H332</td>
<td>Harmful if inhaled</td>
</tr>
<tr>
<td>H334</td>
<td>May cause allergy or asthma symptoms or breathing difficulties if inhaled</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation</td>
</tr>
<tr>
<td>H360</td>
<td>May damage fertility or the unborn child</td>
</tr>
<tr>
<td>H372</td>
<td>Causes damage to organs through prolonged or repeated exposure</td>
</tr>
<tr>
<td>H400</td>
<td>Very toxic to aquatic life</td>
</tr>
<tr>
<td>H401</td>
<td>Toxic to aquatic life</td>
</tr>
<tr>
<td>H402</td>
<td>Harmful to aquatic life</td>
</tr>
<tr>
<td>H410</td>
<td>Very toxic to aquatic life with long lasting effects</td>
</tr>
</tbody>
</table>

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

SDS US (GHS HazCom)
KOVA Liqua-Trol® II Normal (120mL and 15mL)

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 1: IDENTIFICATION

1.1. Product Identifier
Product Name: KOVA Liqua-Trol® II Normal (120mL and 15mL)
Product Component: 37036, 87112, 87112E, 87122, 87222, 87228, 87122E, 87123E, 87222E, 87228E

1.2. Intended Use of the Product
Use of the Substance/Mixture: For in vitro diagnostic use only.

1.3. Name, Address, and Telephone of Manufacturer/Supplier
Kova International, Inc.
7272 Chapman Avenue, Suite B
Garden Grove, CA 92841
Tel: 1-714-902-1700
Fax: 1-714-908-7945
Business hours: (8:00 a.m. - 5:00 p.m., PST, Monday - Friday)

1.4. Emergency Telephone Number
Emergency Number: Contact your local Poison Center

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture
GHS-US Classification
Not classified

2.2. Label Elements
GHS-US Labeling
No labeling applicable

2.3. Other Hazards
Exposure may aggravate pre-existing eye, skin, or respiratory conditions. May cause an allergic reaction in sensitive individuals.

2.4. Unknown Acute Toxicity (GHS-US)
No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance
Not applicable

3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product Identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>(CAS No) 7732-18-5</td>
<td>98.8676538</td>
<td>Not classified</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>(CAS No) 7647-14-5</td>
<td>0.3</td>
<td>Not classified</td>
</tr>
<tr>
<td>Potassium chloride</td>
<td>(CAS No) 7447-40-7</td>
<td>0.3</td>
<td>Not classified</td>
</tr>
<tr>
<td>4H-Imidazol-4-one, 2-amino-1,5-dihydro-1-methyl-</td>
<td>(CAS No) 60-27-5</td>
<td>0.2</td>
<td>Not classified</td>
</tr>
<tr>
<td>Sodium phosphate dibasic</td>
<td>(CAS No) 7558-79-4</td>
<td>0.1345</td>
<td>Not classified</td>
</tr>
<tr>
<td>Sodium hydroxide*</td>
<td>(CAS No) 1310-73-2</td>
<td>&lt; 0.1</td>
<td>Met. Corr. 1, H290</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Skin Corr. 1A, H314</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Dam. 1, H318</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Aquatic Acute 3, H402</td>
</tr>
<tr>
<td>Hydrochloric acid*</td>
<td>(CAS No) 7647-01-0</td>
<td>&lt; 0.1</td>
<td>Met. Corr. 1, H290</td>
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<td></td>
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<td>Skin Corr. 1B, H314</td>
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<td></td>
<td></td>
<td></td>
<td>Eye Dam. 1, H318</td>
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<td>STOT SE 3, H335</td>
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<td>Aquatic Acute 2, H401</td>
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<td></td>
<td></td>
<td></td>
<td>Acute Tox. 2 (Oral), H300</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STOT RE 2, H373</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Aquatic Acute 1, H400</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Aquatic Chronic 1, H410</td>
</tr>
<tr>
<td>Sodium azide</td>
<td>(CAS No) 26628-22-8</td>
<td>0.095</td>
<td></td>
</tr>
<tr>
<td>Phosphoric acid, monosodium salt</td>
<td>(CAS No) 7558-80-7</td>
<td>0.0064</td>
<td>Not classified</td>
</tr>
</tbody>
</table>
KOVA Liqua-Trol® II Normal (120mL and 15mL)
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Magnesium nitrate
(CAS No) 10377-60-3
< 0.00000084

3(2H)-Isothiazolone, 5-chloro-2-methyl-
(CAS No) 26172-55-4
< 0.00000042

3(2H)-Isothiazolone, 2-methyl-
(CAS No) 2682-20-4
< 0.00000042

* These components are added to adjust pH as necessary.

Full text of H-phrases: see section 16

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of First-aid Measures

**First-aid Measures General**: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**First-aid Measures After Inhalation**: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

**First-aid Measures After Skin Contact**: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.

**First-aid Measures After Eye Contact**: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

**First-aid Measures After Ingestion**: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

### 4.2. Most Important Symptoms and Effects Both Acute and Delayed

**Symptoms/Injuries**: Not expected to present a significant hazard under anticipated conditions of normal use. May cause an allergic reaction in sensitive individuals.

**Symptoms/Injuries After Inhalation**: Prolonged exposure may cause irritation. May cause exacerbation of asthma if mists are inhaled.

**Symptoms/Injuries After Skin Contact**: Prolonged exposure may cause skin irritation. May cause an allergic reaction in sensitive individuals.

**Symptoms/Injuries After Eye Contact**: May cause slight irritation to eyes.

**Symptoms/Injuries After Ingestion**: Ingestion may cause adverse effects.

**Chronic Symptoms**: None known.

### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1. Extinguishing Media

**Suitable Extinguishing Media**: Water spray, dry chemical, foam, carbon dioxide.

**Unsuitable Extinguishing Media**: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

### 5.2. Special Hazards Arising From the Substance or Mixture

**Fire Hazard**: Not considered flammable but may burn at high temperatures.

**Explosion Hazard**: Product is not explosive.

**Reactivity**: Hazardous reactions will not occur under normal conditions.

### 5.3. Advice for Firefighters

**Precautionary Measures Fire**: Exercise caution when fighting any chemical fire.

**Firefighting Instructions**: Use water spray or fog for cooling exposed containers. Do not breathe fumes from fires or vapors from decomposition.

**Protection During Firefighting**: Do not enter fire area without proper protective equipment, including respiratory protection.
**SECTION 6: ACCIDENTAL RELEASE MEASURES**

6.1. **Personal Precautions, Protective Equipment and Emergency Procedures**

**General Measures:** Avoid prolonged contact with eyes, skin and clothing. Avoid breathing (vapor, mist, spray).

6.1.1. **For Non-Emergency Personnel**

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

6.1.2. **For Emergency Personnel**

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

6.2. **Environmental Precautions**

Prevent entry to sewers and public waters.

6.3. **Methods and Materials for Containment and Cleaning Up**

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Ventilate area. Absorb and/or contain spill with inert material. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

6.4. **Reference to Other Sections**

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

**SECTION 7: HANDLING AND STORAGE**

7.1. **Precautions for Safe Handling**

**Precautions for Safe Handling:** Do not handle until all safety precautions have been read and understood. Avoid prolonged contact with eyes, skin and clothing. Avoid breathing vapors, mist, and spray. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash contaminated clothing before reuse.

7.2. **Conditions for Safe Storage, Including Any Incompatibilities**

**Technical Measures:** Comply with applicable regulations.

**Storage Conditions:** Keep only in original container. Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

**Incompatible Products:** Strong acids, strong bases, strong oxidizers. Water reactive materials. Alkalis. Metals.

7.3. **Specific End Use(s):** For in vitro diagnostic use only.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

8.1. **Control Parameters**

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

<table>
<thead>
<tr>
<th>Substance</th>
<th>ACGIH Ceiling (mg/m³)</th>
<th>ACGIH Ceiling (ppm)</th>
<th>ACGIH chemical category</th>
<th>NIOSH REL (mg/m³)</th>
<th>NIOSH REL (ppm)</th>
<th>IDLH (mg/m³)</th>
<th>OSHA PEL (mg/m³)</th>
<th>OSHA PEL (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium azide (26628-22-8)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>USA ACGIH</td>
<td>ACGIH Ceiling (mg/m³)</td>
<td>0.29 mg/m³</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>USA ACGIH</td>
<td>ACGIH Ceiling (ppm)</td>
<td>0.11 ppm (vapor)</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>USA ACGIH</td>
<td>ACGIH chemical category</td>
<td>Not Classifiable as a Human Carcinogen</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>USA NIOSH</td>
<td>NIOSH REL (mg/m³)</td>
<td>0.3 mg/m³</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>USA NIOSH</td>
<td>NIOSH REL (ppm)</td>
<td>0.1 ppm</td>
<td></td>
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<tr>
<td>Sodium hydroxide (1310-73-2)</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>USA ACGIH</td>
<td>ACGIH Ceiling (mg/m³)</td>
<td>2 mg/m³</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>USA NIOSH</td>
<td>NIOSH REL (mg/m³)</td>
<td>2 mg/m³</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>USA IDLH</td>
<td>US IDLH (mg/m³)</td>
<td>10 mg/m³</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>USA OSHA</td>
<td>OSHA PEL (mg/m³)</td>
<td>2 mg/m³</td>
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<td>Hydrochloric acid (7647-01-0)</td>
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<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>USA ACGIH</td>
<td>ACGIH Ceiling (ppm)</td>
<td>2 ppm</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>USA ACGIH</td>
<td>ACGIH chemical category</td>
<td>Not Classifiable as a Human Carcinogen</td>
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</tr>
<tr>
<td>USA NIOSH</td>
<td>NIOSH REL (mg/m³)</td>
<td>7 mg/m³</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>USA NIOSH</td>
<td>NIOSH REL (ppm)</td>
<td>5 ppm</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>USA IDLH</td>
<td>US IDLH (ppm)</td>
<td>50 ppm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>USA OSHA</td>
<td>OSHA PEL (mg/m³)</td>
<td>7 mg/m³</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
KOVA Liqua-Trol® II Normal (120mL and 15mL)

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| USA OSHA | OSHA PEL (Ceiling) (ppm) | 5 ppm |

8.2. Exposure Controls

Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Local exhaust and general ventilation must be adequate to meet exposure standards. Site-specific risk assessments should be conducted to determine the appropriate exposure control measures. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. Ensure all national/local regulations are observed.

Personal Protective Equipment: Not generally required. The use of personal protective equipment may be necessary as conditions warrant. Gloves. Protective clothing. Protective goggles.

Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear protective gloves.

Eye Protection: Chemical safety goggles.

Skin and Body Protection: Wear suitable protective clothing. In laboratory, medical or industrial settings, impervious disposable gloves and protective clothing are recommended if skin contact is possible.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Environmental Exposure Controls: Avoid release to the environment.

Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

- Physical State: Liquid
- Appearance: Green, yellow
- Odor: No data available
- Odor Threshold: No data available
- pH: 7.5 - 8
- Evaporation Rate: No data available
- Melting Point: No data available
- Freezing Point: No data available
- Boiling Point: ≈ 100 °C (≈ 212 °F)
- Flash Point: No data available
- Auto-ignition Temperature: No data available
- Decomposition Temperature: No data available
- Flammability (solid, gas): No data available
- Vapor Pressure: No data available
- Relative Vapor Density at 20°C: No data available
- Relative Density: No data available
- Solubility: Soluble in water
- Partition Coefficient: N-Octanol/Water: No data available
- Viscosity: No data available

9.2. Other Information: No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity: Hazardous reactions will not occur under normal conditions.

10.2. Chemical Stability: Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

10.4. Conditions to Avoid: Direct sunlight, extremely high or low temperatures, and incompatible materials.

10.6. Hazardous Decomposition Products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects

Acute Toxicity: Not classified

<table>
<thead>
<tr>
<th>Substance</th>
<th>LD50 Oral Rat</th>
<th>LD50 Dermal Rat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium phosphate dibasic (7558-79-4)</td>
<td>&gt; 2000 mg/kg</td>
<td>&gt; 2000 mg/kg</td>
</tr>
<tr>
<td>Phosphoric acid, monosodium salt (7558-80-7)</td>
<td>8290 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Sodium azide (26628-22-8)</td>
<td>27 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Sodium chloride (7647-14-5)</td>
<td>3 g/kg</td>
<td></td>
</tr>
<tr>
<td>LC50 Inhalation Rat</td>
<td>&gt; 42 g/m³ (Exposure time: 1 h)</td>
<td></td>
</tr>
<tr>
<td>ATE (Oral)</td>
<td>3,000.00 mg/kg body weight</td>
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</tr>
<tr>
<td>Potassium chloride (7447-40-7)</td>
<td>2600 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Magnesium nitrate (10377-60-3)</td>
<td>&gt; 5010 mg/kg</td>
<td></td>
</tr>
<tr>
<td>3(2H)-Isothiazolone, 5-chloro-2-methyl- (26172-55-4)</td>
<td>481 mg/kg</td>
<td></td>
</tr>
<tr>
<td>3(2H)-Isothiazolone, 2-methyl- (2682-20-4)</td>
<td>100.00 mg/kg body weight</td>
<td></td>
</tr>
<tr>
<td>ATE (Oral)</td>
<td>100.00 mg/kg body weight</td>
<td></td>
</tr>
<tr>
<td>ATE (Dermal)</td>
<td>300.00 mg/kg body weight</td>
<td></td>
</tr>
<tr>
<td>ATE (Dust/Mist)</td>
<td>0.50 mg/l/4h</td>
<td></td>
</tr>
</tbody>
</table>

Skin Corrosion/Irritation: Not classified
pH: 7.5 - 8

Serious Eye Damage/Irritation: Not classified
pH: 7.5 - 8

Respiratory or Skin Sensitization: Not classified
Germ Cell Mutagenicity: Not classified
Carcinogenicity: Not classified

Hydrochloric acid (7647-01-0)

IARC group: 3
Reproductive Toxicity: Not classified
Specific Target Organ Toxicity (Single Exposure): Not classified
Specific Target Organ Toxicity (Repeated Exposure): Not classified
Aspiration Hazard: Not classified
Symptoms/Injuries After Inhalation: Prolonged exposure may cause irritation. May cause exacerbation of asthma if mists are inhaled.
Symptoms/Injuries After Skin Contact: Prolonged exposure may cause skin irritation. May cause an allergic reaction in sensitive individuals.
Symptoms/Injuries After Eye Contact: May cause slight irritation to eyes.
Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.
Chronic Symptoms: None known.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General: Not classified.
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**Sodium azide (26628-22-8)**

<table>
<thead>
<tr>
<th>LC50 Fish 1</th>
<th>0.8 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 Fish 2</td>
<td>0.7 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)</td>
</tr>
<tr>
<td>ErC50 (Algae)</td>
<td>0.348 mg/l</td>
</tr>
</tbody>
</table>

**Sodium chloride (7647-14-5)**

<table>
<thead>
<tr>
<th>LC50 Fish 1</th>
<th>5560 (5560 - 6080) mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through])</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC50 Daphnia 1</td>
<td>1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)</td>
</tr>
<tr>
<td>LC50 Fish 2</td>
<td>12946 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])</td>
</tr>
<tr>
<td>EC50 Daphnia 2</td>
<td>340.7 (340.7 - 469.2) mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])</td>
</tr>
</tbody>
</table>

**Potassium chloride (7447-40-7)**

<table>
<thead>
<tr>
<th>LC50 Fish 1</th>
<th>1060 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC50 Daphnia 1</td>
<td>825 mg/l (Exposure time: 48 h - Species: Daphnia magna)</td>
</tr>
<tr>
<td>LC50 Fish 2</td>
<td>750 (750 - 1020) mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])</td>
</tr>
<tr>
<td>EC50 Daphnia 2</td>
<td>880 mg/l (Exposure time: 24 h - Species: Daphnia magna)</td>
</tr>
</tbody>
</table>

**Sodium hydroxide (1310-73-2)**

<table>
<thead>
<tr>
<th>LC50 Fish 1</th>
<th>45.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC50 Daphnia 1</td>
<td>40 mg/l</td>
</tr>
</tbody>
</table>

**Hydrochloric acid (7647-01-0)**

<table>
<thead>
<tr>
<th>LC50 Fish 1</th>
<th>7.45 mg/l (Species: Oncorhynchus mykiss - Exposure time: 96h)</th>
</tr>
</thead>
</table>

**3(2H)-Isothiazolone, 5-chloro-2-methyl- (26172-55-4)**

<table>
<thead>
<tr>
<th>LC50 Fish 1</th>
<th>1.6 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static])</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC50 Daphnia 1</td>
<td>4.71 mg/l (Exposure time: 48 h - Species: Daphnia magna)</td>
</tr>
<tr>
<td>EC50 Daphnia 2</td>
<td>0.12 (0.12 - 0.3) mg/l (Exposure time: 48 h - Species: Daphnia magna [Flow through])</td>
</tr>
</tbody>
</table>

**12.2. Persistence and Degradability**

KOVA Liqua-Trol® II Normal (120mL and 15mL)

Persistence and Degradability Not established.

**12.3. Bioaccumulative Potential**

KOVA Liqua-Trol® II Normal (120mL and 15mL)

Bioaccumulative Potential Not established.

**BCF Fish 1** (no bioaccumulation)

**3(2H)-Isothiazolone, 5-chloro-2-methyl- (26172-55-4)**

| Log Pow | -0.71 - 0.75 (at 20 °C) |

**12.4. Mobility in Soil** No additional information available

**12.5. Other Adverse Effects**

Other Information: Avoid release to the environment.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1. Waste Treatment Methods**

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, and international regulations.

Additional Information: Prevent runoff from entering drains, sewers or waterways.

Ecology - Waste Materials: Avoid release to the environment.

**SECTION 14: TRANSPORT INFORMATION**

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

**14.1. In Accordance with DOT** Not regulated for transport

**14.2. In Accordance with IMDG** Not regulated for transport

**14.3. In Accordance with IATA** Not regulated for transport

**SECTION 15: REGULATORY INFORMATION**

**15.1. US Federal Regulations**

Sodium phosphate dibasic (7558-79-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

CERCLA RQ 5000 lb
**KOVA Liqua-Trol® II Normal (120mL and 15mL)**

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<table>
<thead>
<tr>
<th>Substance Description</th>
<th>Inventory Lists</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phosphoric acid, monosodium salt (7558-80-7)</td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
</tr>
<tr>
<td>Sodium azide (26628-22-8)</td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
</tr>
<tr>
<td></td>
<td>Subject to reporting requirements of United States SARA Section 302</td>
</tr>
<tr>
<td></td>
<td>CERCLA RQ 1000 lb</td>
</tr>
<tr>
<td></td>
<td>SARA Section 302 Threshold Planning Quantity (TPQ) 500 lb (This material is a reactive solid. The TPQ does not default to 10000 pounds for non-powder, non-molten, non-solution form)</td>
</tr>
<tr>
<td></td>
<td>SARA Section 313 - Emission Reporting 1.0 %</td>
</tr>
<tr>
<td>Potassium chloride (7447-40-7)</td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
</tr>
<tr>
<td>4H-Imidazol-4-one, 2-amino-1,5-dihydro-1-methyl- (60-27-5)</td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
</tr>
<tr>
<td>Sodium hydroxide (1310-73-2)</td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
</tr>
<tr>
<td>CERCLA RQ 1000 lb</td>
<td>Hydrochloric acid (7647-01-0)</td>
</tr>
<tr>
<td></td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
</tr>
<tr>
<td></td>
<td>Listed on the United States SARA Section 302</td>
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<tr>
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<td>Subject to reporting requirements of United States SARA Section 313</td>
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<tr>
<td></td>
<td>EPA TSCA Regulatory Flag T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA</td>
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<tr>
<td></td>
<td>CERCLA RQ 5000 lb</td>
</tr>
<tr>
<td></td>
<td>SARA Section 302 Threshold Planning Quantity (TPQ) 500 lb (gas only)</td>
</tr>
<tr>
<td></td>
<td>SARA Section 313 - Emission Reporting 1.0 % (acid aerosols including mists, vapors, gas, fog, and other airborne forms of any particle size)</td>
</tr>
<tr>
<td>Water (7732-18-5)</td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
</tr>
<tr>
<td>Magnesium nitrate (10377-60-3)</td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
</tr>
<tr>
<td>3(2H)-Isothiazolone, 5-chloro-2-methyl- (26172-55-4)</td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
</tr>
<tr>
<td></td>
<td>EPA TSCA Regulatory Flag P - P - indicates a commenced PMN substance SP</td>
</tr>
<tr>
<td></td>
<td>CERCLA RQ</td>
</tr>
<tr>
<td></td>
<td>SARA Section 302 Threshold Planning Quantity (TPQ)</td>
</tr>
<tr>
<td></td>
<td>SARA Section 313 - Emission Reporting</td>
</tr>
<tr>
<td></td>
<td>15.2. US State Regulations</td>
</tr>
<tr>
<td>Sodium phosphate dibasic (7558-79-4)</td>
<td>U.S. - Massachusetts - Right To Know List</td>
</tr>
<tr>
<td></td>
<td>U.S. - New Jersey - Right to Know Hazardous Substance List</td>
</tr>
<tr>
<td></td>
<td>U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List</td>
</tr>
<tr>
<td></td>
<td>U.S. - Pennsylvania - RTK (Right to Know) List</td>
</tr>
<tr>
<td>Sodium azide (26628-22-8)</td>
<td>U.S. - Massachusetts - Right To Know List</td>
</tr>
<tr>
<td></td>
<td>U.S. - New Jersey - Right to Know Hazardous Substance List</td>
</tr>
<tr>
<td></td>
<td>U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List</td>
</tr>
<tr>
<td></td>
<td>U.S. - Pennsylvania - RTK (Right to Know) List</td>
</tr>
<tr>
<td>Sodium hydroxide (1310-73-2)</td>
<td>U.S. - Massachusetts - Right To Know List</td>
</tr>
<tr>
<td></td>
<td>U.S. - New Jersey - Right to Know Hazardous Substance List</td>
</tr>
<tr>
<td></td>
<td>U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List</td>
</tr>
<tr>
<td></td>
<td>U.S. - Pennsylvania - RTK (Right to Know) List</td>
</tr>
</tbody>
</table>
Hydrochloric acid (7647-01-0)
U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
U.S. - Pennsylvania - RTK (Right to Know) List

Magnesium nitrate (10377-60-3)
U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision Date: 09/16/2016
Other Information: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200

GHS Full Text Phrases:

- Acute Tox. 2 (Oral) Acute toxicity (oral) Category 2
- Acute Tox. 3 (Dermal) Acute toxicity (dermal) Category 3
- Acute Tox. 3 (Inhalation:dust,mist) Acute toxicity (inhalation:dust,mist) Category 3
- Acute Tox. 3 (Oral) Acute toxicity (oral) Category 3
- Acute Tox. 4 (Inhalation:dust,mist) Acute toxicity (inhalation:dust,mist) Category 4
- Aquatic Acute 1 Hazardous to the aquatic environment - Acute Hazard Category 1
- Aquatic Acute 2 Hazardous to the aquatic environment - Acute Hazard Category 2
- Aquatic Acute 3 Hazardous to the aquatic environment - Acute Hazard Category 3
- Aquatic Chronic 1 Hazardous to the aquatic environment - Chronic Hazard Category 1
- Eye Dam. 1 Serious eye damage/eye irritation Category 1
- Met. Corr. 1 Corrosive to metals Category 1
- Ox. Sol. 3 Oxidizing solids Category 3
- Skin Corr. 1A Skin corrosion/irritation Category 1A
- Skin Corr. 1B Skin corrosion/irritation Category 1B
- Skin Sens. 1 Skin sensitization Category 1
- STOT RE 2 Specific target organ toxicity (repeated exposure) Category 2
- STOT SE 3 Specific target organ toxicity (single exposure) Category 3
- H272 May intensify fire; oxidizer
- H290 May be corrosive to metals
- H300 Fatal if swallowed
- H301 Toxic if swallowed
- H311 Toxic in contact with skin
- H314 Causes severe skin burns and eye damage
- H317 May cause an allergic skin reaction
- H318 Causes serious eye damage
- H331 Toxic if inhaled
- H332 Harmful if inhaled
- H335 May cause respiratory irritation
- H373 May cause damage to organs through prolonged or repeated exposure
- H400 Very toxic to aquatic life
- H401 Toxic to aquatic life
- H402 Harmful to aquatic life
- H410 Very toxic to aquatic life with long lasting effects

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

SDS US (GHS HazCom)