1. Product and Company Identification

**Product Identifier**

**Product Name:** Hitergent Solution  
**Product Code:** BM-409149D  
**Recommended Use:** To clean reaction cells and water baths  
**Company** Diamond Diagnostics Inc.  
333 Fiske Street  
Holliston, MA 01746  
**Company Phone Number** 508-429-0450  
**Email** support@diamonddiagnostics.com  
**Emergency Telephone No:** 508-429-0450

2. Hazards Identification

**GHS- Classification**

**Classification** Corrosive, Skin Irritant, Eye Irritant, Environmentally Damaging

**Hazard Statements**

- H226 Flammable liquids  
- H227 Combustible liquid  
- H290 Maybe corrosive to metals.  
- H302 Harmful if swallowed.  
- H302 + H312 + H332 Harmful if swallowed, in contact with skin or inhaled.  
- H314 Causes severe skin burns and eye damage.  
- H318 Causes serious eye damage.  
- H335 May cause respiratory irritation.  
- H400 Very toxic to aquatic life.  
- H401 Toxic to aquatic life.  
- H402 Harmful to aquatic life  
- H412 Harmful to aquatic life with long lasting effects.

**Precautionary Statements**

- P210 Keep away from heat/sparks/open flames/hot surfaces. –No smoking.  
- P234 Keep in original container.  
- P260 Do not breathe dust/fumes/gas/mist/vapors/spray.  
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.  
- P264 Wash skin thoroughly after handling.  
- P270 Do not eat, drink or smoke when using this product.  
- P271 Use only outdoors or in a well-ventilated area.  
- P273 Avoid release to the environment.  
- P280 Wear protective gloves/protective clothing/eye protection/face protection.  
- P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.  
- P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
- P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
- P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.  
- P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.  
- P310 Immediately call a POISON CENTER/doctor.  
- P330 Rinse mouth.  
- P363 Wash contaminated clothing before reuse.  
- P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant to extinguish.  
- P391 Collect spillage.  
- P403 + P233 Store in a well ventilated place. Keep container tightly closed.
3. Composition/Information on ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>EC No.</th>
<th>Reach Reg. No.</th>
<th>CAS-No.</th>
<th>Weight %</th>
<th>Classification</th>
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<tbody>
<tr>
<td>Ethoxylated nonylphenol</td>
<td>500-027-6</td>
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<td>9016-45-9</td>
<td>&lt; 2%</td>
<td>Acute Tox. 4; Eye Dam. 1;</td>
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<td>Aquatic Acute 1; H302, H318, H400</td>
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<tr>
<td>Sodium Hydroxide</td>
<td>215-185-5</td>
<td>01-2119457892-27-XXXX</td>
<td>1310-73-2</td>
<td>&lt; 5%</td>
<td>Met. Corr. 1; Skin Corr. 1A; Eye</td>
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<td>Dam. 1; Aquatic Acute 3; H290,</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>H314, H318, H402</td>
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<tr>
<td>Ethanolamine</td>
<td>205-483-3</td>
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<td>141-43-5</td>
<td>&lt; 6%</td>
<td>Flam. Liquid 4; Acute Tox. 4,</td>
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<td></td>
<td>Skin Corr. 1B; Eye Dam. 1;</td>
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<tr>
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<td></td>
<td>STOT SE 3; Aquatic Acute 2;</td>
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<td>+H312 + H332, H314, H318, H335,</td>
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<td></td>
<td></td>
<td></td>
<td>H401, H412</td>
</tr>
</tbody>
</table>

4. First Aid Measures

**Eye Contact**
Flush affected area with copious amounts of water.

**Skin Contact**
Flush affected area with copious amounts of water.

**Inhalation**
Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult a physician.

**Ingestion**
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Clean mouth with water and afterwards drink plenty of water. Consult a physician.

**Notes to Physician**
Treat symptomatically

5. Fire-Fighting Measures

**Flammable Properties**
No information available

**Flash Point**
Approx. 100 °C

**Suitable Extinguishing Media**
Suitable for surrounding fire

**Hazardous Combustion Products**
Reacts with Oxidizable materials

**Protective Equipment and Precautions for Firefighters**
Wear self-contained breathing apparatus for firefighting if necessary.

6. Accidental Release Measures

**Personnel Precautions**
Use personnel protective equipment. Avoid contact with skin, eyes and clothing. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

**Methods for Containment & Cleaning**
Soak up with non-combustible absorbent material. Rinse affected area with copious amounts of water. Dispose of in accordance with applicable federal, state, and local laws and regulations.

**Environmental Precautions**
Do not let product enter drains.

7. Handling and Storage

**Handling**
Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition – No Smoking. Take measures to prevent buildup of electrostatic charge.
**Safety Data Sheet**

**Storage**
Keep container closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

**Specific use**
See Section 1 – Recommended Use

### 8. Exposure Controls / Personnel

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
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</thead>
<tbody>
<tr>
<td>Ethoxylated nonylphenol 9016-45-9</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
<tr>
<td>Sodium Hydroxide 1310-73-2</td>
<td>C 2.000000 mg/m³</td>
<td>TWA 2.000000 mg/m³</td>
<td>C 2.000000 mg/m³</td>
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<tr>
<td>Ethanolamine 141-43-5</td>
<td>TWA 3 ppm</td>
<td>TWA 3 ppm</td>
<td>TWA 3.000000 ppm 8.000000 mg/m³ ST 6.000000 ppm 15.000000 mg/m³</td>
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</tbody>
</table>

**Engineering Measures**
- Showers
- Eye Wash Stations
- Ventilation Systems

**Personnel Protective Equipment**

**Eye/face Protection**
Safety goggles with side-shields

**Skin Protection**
Wear protective gloves/clothing

**Respiratory Protection**
If exposure limits are exceeded or irritation is experienced; NISOH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required high airborne containment concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene Measures**
Complete suit protecting against chemicals, Flame resistant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Environment Exposure**
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

### 9. Physical and Chemical Properties

**Appearance**
Clear to slight Yellow Liquid

**Odor**
Chlorine

**Odor Threshold**
No information available

**pH**
No information available

**Melting Point**
No information available

**Freezing Point**
0°C

**Initial Boiling Point**
Approx. 100 °C

**Flash Point**
Approx. 100 °C

**Evaporation Rate**
No information available

**Flammability (solid, gas)**
No information available

**Upper/Lower flammability or explosive limits**
No information available

**Vapor pressure**
No information available

**Vapor density**
No information available

**Relative density**
No information available

**Water Solubility**
No information available

**Partition coefficient: (n-octanol/water)**
No information available

**Auto-ignition temperature**
No information available

**Decomposition Temperature °C**
No information available
10. Stability and Reactivity

Reactivity: No information available
Chemical Stability: Stable
Hazardous Decomposition Products: Chlorine, Hydrochloric Acid, Hypochlorous Acid and Oxygen
Hazardous Polymerization: Will not occur
Conditions to avoid: Avoid exposure to heat and light.
Suggested Storage: Store as recommended on product label

11. Toxicological Information

Acute Toxicity: No information available
Chronic Toxicity: Irritation of affected area
Target Organ Effects: No information available
Carcinogenicity: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.

12. Ecological Information

Ecotoxicity: Toxic to fish, daphnia and other aquatic invertebrates.

13. Disposal Considerations

Waste Disposal Method: In accordance with applicable federal, state, and local laws and regulations.
Contaminated Packaging: In accordance with applicable federal, state, and local laws and regulations.

14. Transport Information

IATA: Not regulated
DOR: Not regulated
15. Regulatory Information

SARA 302 Components
No chemicals in this material are subject to reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers to exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts right to know components
<table>
<thead>
<tr>
<th>CAS-No.</th>
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<tr>
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Pennsylvania right to know components
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New Jersey right to know components
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California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. Other Information

Issuing Date
13-March-2007

Revision Date
30-November-2015

Revision Note
No information available

Recommended Restrictions
No Restrictions

Disclaimer
The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in text.