

## 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](mailto: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.  |

P403 + P235  
P405  
P406  
P501

Store in a well-ventilated place. Keep cool.  
Store locked up.  
Store in a corrosive resistant stainless container with a resistant inner liner.  
Dispose of contents/container to an approved waste disposal plant.

### 3. Composition/Information on ingredients

| Chemical Name           | EC No.    | Reach Reg. No.        | CAS-No.   | Weight % | Classification  |
|-------------------------|-----------|-----------------------|-----------|----------|---|
| Ethoxylated nonylphenol | 500-027-6 | Not available         | 9016-45-9 | < 2%     | Acute Tox. 4; Eye Dam. 1; Aquatic Acute 1; H302, H318, H400   |
| Sodium Hydroxide        | 215-185-5 | 01-2119457892-27-XXXX | 1310-73-2 | < 5%     | Met. Corr. 1; Skin Corr. 1A; Eye Dam. 1; Aquatic Acute 3; H290, H314, H318, H402  |
| Ethanolamine            | 205-483-3 | Not available         | 141-43-5  | < 6%     | Flam. Liquid 4; Acute Tox. 4; Skin Corr. 1B; Eye Dam. 1; STOT SE 3; Aquatic Acute 2; Aquatic Chronic 3; H227, H302 +H312 + H332, H314, H318, H335, H401, H412 |

### 4. First Aid Measures

|                           |  |
|---------------------------|--|
| <b>Eye Contact</b>        | Flush affected area with copious amounts of water.   |
| <b>Skin Contact</b>       | Flush affected area with copious amounts of water.   |
| <b>Inhalation</b>         | Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult a physician.                                   |
| <b>Ingestion</b>          | 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. |
| <b>Notes to Physician</b> | Treat symptomatically  |

### 5. Fire-Fighting Measures

|  |  |
|--|--|
| <b>Flammable Properties</b>                                  | No information available   |
| <b>Flash Point</b>   | Approx. 100 °C   |
| <b>Suitable Extinguishing Media</b>                          | Suitable for surrounding fire  |
| <b>Hazardous Combustion Products</b>                         | Reacts with Oxidizable materials                                       |
| <b>Protective Equipment and Precautions for Firefighters</b> | Wear self-contained breathing apparatus for firefighting if necessary. |

### 6. Accidental Release Measures

|   |   |
|---|---|
| <b>Personnel Precautions</b>                  | 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. |
| <b>Methods for Containment &amp; Cleaning</b> | 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.                        |
| <b>Environmental Precautions</b>              | Do not let product enter drains.  |

### 7. Handling and Storage

|                 |   |
|-----------------|---|
| <b>Handling</b> | 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. |
|-----------------|---|

**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

| Chemical Name                        | ACGIH TLV                    | OSHA PEL                         | NIOSH IDLH   |
|--------------------------------------|------------------------------|----------------------------------|--|
| Ethoxylated nonylphenol<br>9016-45-9 | Not listed                   | Not listed                       | Not listed   |
| Sodium Hydroxide<br>1310-73-2        | C 2.000000 mg/m <sup>3</sup> | TWA 2.000000 mg/m <sup>3</sup>   | C 2.000000 mg/m <sup>3</sup>   |
| Ethanolamine<br>141-43-5             | TWA 3 ppm                    | TWA 3 ppm<br>6 mg/m <sup>3</sup> | TWA 3.000000 ppm<br>8.000000 mg/m <sup>3</sup><br>ST 6.000000 ppm<br>15.000000 mg/m <sup>3</sup> |

**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; NIOSH/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

|                      |                          |
|----------------------|--------------------------|
| Viscosity            | No information available |
| Explosive properties | No information available |
| Oxidizing properties | No information available |

## 10. Stability and Reactivity

|                                  |   |
|----------------------------------|---|
| Reactivity                       | No information available  |
| Chemical Stability               | Stable  |
| Incompatible Materials           | Acids, Ammonia, Metals, Oxidizable materials and Chlorinated Isocyanurates. |
| 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      | <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> |

## 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

|   |   |                |
|---|---|----------------|
| <b>SARA 302 Components</b>                    | No chemicals in this material are subject to reporting requirements of SARA Title III, Section 302.   |                |
| <b>SARA 313 Components</b>                    | 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. |                |
| <b>SARA 311/312 Hazards</b>                   | Fire Hazard, Acute Health Hazard, Chronic Health Hazard   |                |
| <b>Massachusetts right to know components</b> | CAS-No.   | Revision Date: |
| Ethanolamine                                  | 141-43-5  | 2007-03-01     |
| Sodium Hydroxide                              | 1310-73-2   | 2007-03-01     |
| <b>Pennsylvania right to know components</b>  | CAS-No.   | Revision Date: |
| Ethanolamine                                  | 141-43-5  | 2007-03-01     |
| Sodium Hydroxide                              | 1310-73-2   | 2007-03-01     |
| Ethoxylated nonylphenol                       | 9016-45-9   | 2009-07-17     |
| <b>New Jersey right to know components</b>    | CAS-No.   | Revision Date: |
| Ethanolamine                                  | 141-43-5  | 2007-03-01     |
| Sodium Hydroxide                              | 1310-73-2   | 2007-03-01     |
| Ethoxylated nonylphenol                       | 9016-45-9   | 2009-07-17     |
| <b>California Prop. 65 Components</b>         | 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

|                                 |                          |
|---------------------------------|--------------------------|
| <b>Issuing Date</b>             | 13-March-2007            |
| <b>Revision Date</b>            | 30-November-2015         |
| <b>Revision Note</b>            | No information available |
| <b>Recommended Restrictions</b> | 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.