1. Product and Company Identification

Product Identifier

Product Name: Deproteinizing Solution
Product Code: CN-RA1002
Recommended Use: Deproteinize pathway

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: Irritant, Corrosive

Hazard Statements
H290 May be corrosive to metals.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H402 Harmful to aquatic life.

Precautionary Statements
P234 Keep only in original container.
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 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/physician.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P321 Specific treatment (see … on this label).
P330 Rinse mouth.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.
P363 Wash contaminated clothing before reuse.
P390 Absorb spillage to prevent material damage.
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P406 Store in corrosive resistant/… container with a resistant inner liner.
P501 Dispose of contents/container to an approved waste disposal plant.
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>
</tr>
</thead>
<tbody>
<tr>
<td>5-Bromo-5-nitro-1,3-dioxane</td>
<td>250-001-7</td>
<td>Not available</td>
<td>30007-47-7</td>
<td>&lt; 0.02%</td>
<td>Acute Tox. 4; Skin Irrit. 2; H302, H315</td>
</tr>
<tr>
<td>Lithium Chloride</td>
<td>231-212-3</td>
<td>Not available</td>
<td>7447-41-8</td>
<td>&lt; 0.05%</td>
<td>Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; Aquatic Acute 3; H302, H315, H319, H335, H402</td>
</tr>
<tr>
<td>Hydrochloric Acid</td>
<td>231-595-7</td>
<td>01-2119484862-27-XXXX</td>
<td>7647-01-0</td>
<td>&lt; 0.5%</td>
<td>Met. Corr. 1; Skin Corr. 1B; Eye Dam. 1; STOT SE 3; H290, H314, H335</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**
Remove from exposure and move to fresh air promptly. If not breathing, give artificial respiration and seek medical aid.

**Ingestion**
Rinse mouth with water, drink large quantities of water and seek medical aid.

**Notes to Physician**
Treat symptomatically

5. Fire-Fighting Measures

**Flammable Properties**
Not information available

**Flash Point**
Not information available

**Suitable Extinguishing Media**
Suitable for surrounding fire

**Hazardous Combustion Products**
Not information available

**Protective Equipment and Precautions for Firefighters**
Self-contained breathing apparatus and protective clothing

6. Accidental Release Measures

**Personnel Precautions**
Use personnel protective equipment. Use good laboratory procedures. Avoid inhaling ingesting and contact with skin and eyes.

**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 law and regulations.

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

7. Handling and Storage

**Handling**
Use good laboratory procedures. Avoid inhaling ingesting and contact with skin and eyes.

**Storage**
Store as recommended on product label.

**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>
</tr>
</thead>
<tbody>
<tr>
<td>5-Bromo-5-nitro-1,3-dioxane</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
<tr>
<td>30007-47-7</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lithium Chloride</td>
<td>Not listed</td>
<td>Not listed</td>
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</tr>
<tr>
<td>7447-41-8</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Hydrochloric Acid
7647-01-0

| C; 2.000000 ppm | C; 5.000000 ppm, 7.000000 mg/m3 | C; 5.000000 ppm, 7.000000 mg/m3 |

**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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear Liquid</td>
</tr>
<tr>
<td>Odor</td>
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</tr>
<tr>
<td>Odor Threshold</td>
<td>No information available</td>
</tr>
<tr>
<td>pH</td>
<td>No information available</td>
</tr>
<tr>
<td>Melting Point</td>
<td>No information available</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>Not information available</td>
</tr>
<tr>
<td>Initial Boiling Point</td>
<td>Approx. 100 °C</td>
</tr>
<tr>
<td>Flash Point</td>
<td>No information available</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>No information available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
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</tr>
<tr>
<td>Upper/Lower flammability or explosive limits</td>
<td>No information available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No information available</td>
</tr>
<tr>
<td>Vapor density</td>
<td>No information available</td>
</tr>
<tr>
<td>Relative density</td>
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</tr>
<tr>
<td>Water Solubility</td>
<td>No information available</td>
</tr>
<tr>
<td>Partition coefficient: (n-octanol/water)</td>
<td>No information available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
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</tr>
<tr>
<td>Decomposition Temperature °C</td>
<td>No information available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No information available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No information available</td>
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<tr>
<td>Oxidizing properties</td>
<td>No information available</td>
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</tbody>
</table>

### 10. Stability and Reactivity

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reactivity</td>
<td>No information available</td>
</tr>
<tr>
<td>Chemical Stability</td>
<td>Stable</td>
</tr>
<tr>
<td>Incompatible Materials</td>
<td>No information available</td>
</tr>
<tr>
<td>Hazardous Decomposition Products</td>
<td>No information available</td>
</tr>
</tbody>
</table>


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11. Toxicological Information

Acute Toxicity
No information available

Chronic Toxicity
Irritation of affected area.

Target Organ Effects
No information available

Carcinogenicity
IARC: 3 – Group 3: Not classifiable as to its carcinogenicity to humans (Hydrochloric Acid)
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 OSHA.

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
The following components are subject to reporting levels established by SARA Title III, Section 313.

<table>
<thead>
<tr>
<th>CAS-No.</th>
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</thead>
<tbody>
<tr>
<td>Hydrochloric Acid</td>
<td>7647-01-0</td>
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</table>

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

Massachusetts right to know components

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Pennsylvania right to know components

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New Jersey right to know components
5-Bromo-5-nitro-1,3-Dioxane  30007-47-7
Lithium Chloride  7447-41-8
Hydrochloric Acid  7647-01-0  1993-04-24

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  31-December-2008
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.