

1. Product and Company Identification

Product Identifier

Product Name: Hitergent Solution
Product Code: HT-1135329D
Recommended Use: To clean reaction cells and water bath

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, Health Hazard



Hazard Statements

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.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
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.
P285	In case of inadequate ventilation wear respiratory 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 + P341	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
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.
 P337 + P313 If eye irritation persists: Get medical advice/attention.
 P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.
 P363 Wash contaminated clothing before reuse
 P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant to extinguish.
 P390 Absorb spillage to prevent material damage.
 P391 Collect spillage.
 P403 + P233 Store in a well ventilated place. Keep container tightly closed.
 P403 + P235 Store in a well ventilated place. Keep cool.
 P405 Store locked up.
 P406 Store in a corrosive resistant stainless container with a resistant inner liner.
 P501 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	500-024-6	Not available	9016-45-9	< 2%	Acute Tox. 4; Eye Dam. 1; Aquatic Acute 1; H302, H318, H400
Ethanolamine	205-483-3	Not available	141-43-5	< 6%	Flam Liq. 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
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

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 Not applicable

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.

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. Storage class (TRGS 510): Non-combustible, corrosive hazardous materials.

Specific use See Section 1 – Recommended Use

8. Exposure Controls / Personnel

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethoxylated Nonylphenol 9016-45-9	Not listed	Not listed	Not listed
Sodium Hydroxide 1310-73-2	C 2.000000 mg/m ³	TWA 2.000000 mg/m ³	C 2.000000 mg/m ³
Ethanolamine 141-43-5	TWA 3 ppm	TWA 3 ppm 6 mg/m ³	TWA 3.000000 ppm 8.000000 mg/m ³ ST 6.000000 ppm 15.000000 mg/m ³
1,3-BIS(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione 6440-58-0	Not listed	Not listed	Not listed

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
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.
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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 Acute Health Hazard

Massachusetts right to know components

	CAS-No.	Revision Date:
Ethanolamine	141-43-5	2007-03-01
Sodium Hydroxide	1310-73-2	2007-03-01

Pennsylvania right to know components

	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

New Jersey right to know components

	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

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.