

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.

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

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.
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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 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

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.
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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	Fire Hazard, Acute Health Hazard, Chronic 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.