

1. Product and Company Identification

Product Identifier

Product Name: Electrode Cleaning Solution
Product Code: RD-943905E
Recommended Use: For cleaning new or dry pH, pCO₂, and pO₂ electrodes.

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, Irritant



Hazard Statements

H290	May be corrosive to metals.
H302 + H312 + H332	Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled.
H314	Causes severe skin burn 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 in original container.
P260	Do not breathe dust or mist.
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 and doctor if you feel unwell. Rinse mouth.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302 + P352	IF ON SKIN: Wash with plenty of water.
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.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P362	Take off contaminated clothing.
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 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
Methylbenzethonium chloride	246-675-7	Not available	25155-18-4	< 0.1%	Acute Tox. 4; Skin Irrit. 2; Eye Dam. 1; STOT SE 3; H302 + H312 + H332, H315, H318, H335
Triton x 100	Not available	Not available	9002-93-1	< 0.1%	Xn;R22
Sodium Hydroxide	215-185-5	01-2119457892-27-XXXX	1310-73-2	< 0.5%	Met. Corr 1; Skin Corr. 1 A; Eye Dam. 1; Aquatic Acute 3; H290, H314, H318, H402
Potassium Hydroxide	215-181-3	01-2119487136-33-XXXX	1310-58-3	< 20%	Met. Corr. 1; Acute Tox. 4; 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	Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical aid.
Ingestion	Rinse mouth with water, drink large quantities of water and call a physician.
Notes to Physician	Treat symptomatically

5. Fire-Fighting Measures

Flammable Properties	No information available
Flash Point	No information available
Suitable Extinguishing Media	Suitable for surrounding fire.
Hazardous Combustion Products	No information available
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.
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
Methylbenzethonium chloride 25155-18-4	Not listed	Not listed	Not listed
Triton x 100 9002-93-1	Not listed	Not listed	Not listed
Sodium Hydroxide 1310-73-2	2 mg/m3	2.000000 mg/m3	2.00000 mg/m3
Potassium Hydroxide 1310-58-3	2.00000 mg/m3	Not listed	2.00000 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; 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 Liquid

Odor

No information available

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

No information available

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	No information available
Hazardous Decomposition Products	No information available
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	The following components are subject to reporting levels established by SARA Title III, Section 313.	
Hydrochloric Acid	CAS-No. 7647-01-0	Revision Date: 1993-04-24
SARA 311/312 Hazards	Acute Health Hazard	

Massachusetts right to know components

	CAS-No.	Revision Date:
Acetic Acid	64-19-7	1993-04-24
Hydrochloric Acid	7647-01-0	1993-04-24

Pennsylvania right to know components

	CAS-No.	Revision Date:
Acetic Acid	64-19-7	1993-04-24
Hydrochloric Acid	7647-01-0	1993-04-24

New Jersey right to know components

	CAS-No.	Revision Date:
Acetic Acid	64-19-7	1993-04-24
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.