

**Safety Data Sheet****115-3841/115-3844**

CircuitMedic, 22 Parkridge Road, Haverhill, MA 01835 USA  
 Phone: 978-373-1600 | Website: <http://www.circuitmedic.com>  
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**Section 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**Product Name:** Plating Solution, Electroclean  
**Product Number:** 1 oz: 115-3841, 4 oz: 115-3844  
**Distributor:** CircuitMedic  
 22 Parkridge Road, Haverhill, MA 01835 USA  
 PHONE: 978-373-1600, FAX: 978-372-5700

**Emergency Response:** For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident  
 Call CHEMTREC Day or Night  
 Within USA and Canada: 1-800-424-9300 CCN4877  
 Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

**Section 2. HAZARD IDENTIFICATION**

**Classifications:** Classification according to Regulation(EC)No1272/2008  
 Classifications applicable to the OSHA GHS Hazard Communication Standard (29CFR1910.1200)

**Emergency Overview:****Potential Health Effects:**

**Inhalation:** Irritating to the eyes, nose, throat and lungs. May cause sneezing, watering of eyes, nasal discharge and coughing.  
**Eyes:** Corrosive to the eyes and may cause severe eye damage.  
**Skin:** Causes skin irritation. May cause skin burns.  
**Ingestion:** May cause severe and permanent damage to mouth, throat and stomach.

**Section 3. COMPOSITION, INFORMATION OR INGREDIENTS**

Chemical Name	RTECS #	C.A.S. Number	Weight %	OSHA PEL	ACGIH TLV	ACGIH Ceiling	NIOSH REL	NIOSH IDLH
Sodium Hydroxide	WB4900000	1310-73-2	1-5	2mg/M3	N/A	2mg/M3	2mg/M3	10mg/M3
Water	ZC0110000	7732-18-5	95-99	N/A	N/A	N/A	N/A	N/A

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200): Exposure Limits 8 Hours TWA (PPM)

**Section 4. FIRST AID MEASURES**

**Inhalation:** Remove to fresh air. Lay victim down, legs raised. Loosen tight clothing, cover with a blanket. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

**Eye Contact:** Hold eyelids apart and flush with plenty of water for at least 15 minutes.

**Skin Contact:** Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Thoroughly decontaminate (or discard) clothing and shoes.

**Ingestion:** DO NOT induce vomiting, unless advised by EMS. Give victim large quantities of water or milk with 1-2 fresh eggs. Give a glass of 1/3 vinegar with 2/3 water. Never give anything by mouth to an unconscious person.

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**Section 5. FIRE-FIGHTING MEASURES**

**Flash Point & Method:** 230°F (C.O.C.).  
**Flammable Limits:** LEL: 1.1 UEL: 6.0  
**Autoignition Temperature:** N/A  
**General Hazard:** Containers can build up pressure and burst if exposed to heat (fire). Water runoff can cause environmental damage. Dike area for later disposal.  
**Fire Fighting Instructions:** NIOSH/MSHA approved positive-pressure self-contained breathing apparatus. Structural fire fighters' protective clothing may not provide adequate protection.  
**Hazardous Combustion Prod.** N/A  
**Flammable Properties:** Material will not burn.  
**Extinguishing Media:** All.

**Section 6. ACCIDENTAL RELEASE MEASURES**

**Land Spill:** Do not touch or walk through spilled material. Isolate hazard area and keep people away. Notify your facility emergency coordinator. Eliminate all sources of ignition. Provide maximum ventilation. Do not release into soil, sewers or natural bodies of water. Wear proper personal protective equipment (PPE). Carefully mop up or vacuum spill and triple rinse with water into suitable plastic container. Release of a reportable quantity (RQ) require notification of proper authorities. Dispose of according to local, state, and federal regulations.  
**Neutralizing Agent:** Dilute Hydrochloric Acid (6M)

**Section 7. HANDLING AND STORAGE**

**Storage Temperature:** 60-90 degrees F  
**Storage Pressure:** Atmospheric  
**Shelf Life:** Unlimited when properly stored away from light in room temperature (60 C / 140F).  
**General:** Use "buddy system" when working with chemicals. Do not get in eyes, on skin or on clothing. Do not breathe vapor, mist of gas. Use with adequate ventilation. Wash thoroughly after handling. Triple rinse container clean before discarding. Put nothing else in this container. Keep container tightly closed in upright position. Store at 60-90 degrees F away from incompatible materials and physical hazards. Do not remove or deface container labels.

**Section 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**

**Engineering Controls:** Local Exhaust ventilation is required. See section 2 for component exposure guidelines.  
**Personal Protection:**  
**Respirator:** If engineering controls are not feasible, the respiratory protection program must comply with OSHA's 29 CFR 1910.34, 30 CFR 11 and ANSI Z88.2 requirements.  
**Hand Protection:** Protective Gloves Recommended (Nitrile, Neoprene, Vinyl, Latex).  
**Eye Protection:** Use one of the following: Face Shield and Safety Glasses with Side Shields or Chemical Goggles (splash-proof).  
**Other Recommended:** Use one of the following: Eye Bath, Safety Shower, Washing Station Nearby, Impervious Boots, Apron, Appropriate Protective Clothing.  
**Note 1:** In accordance with good industrial hygiene, wash hands with soap and water after working with material.

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**Section 9. PHYSICAL AND CHEMICAL PROPERTIES**

Density: 1.044-1.054g/ml  
 pH: 12-14  
 Boiling Point: >100 degrees C, >212 degrees F  
 Freezing Point: <0 degrees C, <32 degrees F  
 Vapor Density (Air = 1): N/A  
 % Volatile By Weight: N/A  
 % Solids: N/A  
 Evaporation Rate (Butyl Acetate = 1): <1  
 Solubility in Water: Complete  
 Viscosity: N/A  
 Molecular Weight: N/A  
 Physical State: Liquid  
 Molecular Weight: N/A  
 Appearance: Colorless liquid  
 Vapor Pressure(mmHg): N/A

**Section 10. STABILITY AND REACTIVITY**

General: Stable under normal ambient conditions  
 Incompatible materials and Conditions to Avoid: Avoid contact with amphoteric metals, strong acids, anhydrides and aldehydes.  
 Hazardous Decomposition or Byproducts:  $\text{Na}_2\text{O}$  (Sodium oxide)  
 Hazardous Polymerization: Will not occur.

**Section 11. TOXICOLOGICAL INFORMATION**

Results of Component Toxicity Test Performed: Information not available.  
 Human Experience: Information not available.

**Section 12. ECOLOGICAL INFORMATION**

Further Information: Information not available.

**Section 13. DISPOSAL CONSIDERATIONS**

RCRA 40 CFR 261 Classification: Federal, State, and Local laws governing disposal of materials can differ. Ensure proper disposal compliance with proper authorities before disposal.



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**Section 14. TRANSPORT INFORMATION**

This product is always shipped in very small quantities, less than 1 liter. Limited quantity exceptions are applicable for this product if requirements in 49 CFR 173.154 (b), are met. Under these exceptions, inner packaging must not be over 1.0 liters (0.3 gallon), net capacity for liquids, packed in strong outer packaging. Each package must not exceed 30 kg (66 lb) gross weight. In addition, shipments of these limited quantities are not subject to Subpart F (Placarding) of Part 172. Packages must comply with Subpart B of Part 172.

**DOT, IATA, ICAO, and IMO Description:**

<b>Basic Description:</b>	Electrocleaning Solution
<b>Proper Shipping Name:</b>	Sodium Hydroxide Solution
<b>Hazard Class:</b>	8
<b>Packaging Group:</b>	II
<b>UN Number:</b>	UN 1824
<b>Label Requirements:</b>	8 - Corrosive
<b>Max. Shippable Qty.:</b>	1 liter by Air, no Ground limitations
<b>Packaging:</b>	Meets Performance Oriented Packaging Requirements
<b>Reportable Quantity (RQ):</b>	N/A
<b>1996 NAERG Guide#:</b>	154
<b>Limitations:</b>	N/A

Do not transfer to unmarked containers. Non-Regulated under D.O.T.

**Section 15. REGULATORY INFORMATION****United States Federal Regulations:**

MSDS complies with OSHA's Hazard Communication Rule, 29 CFR 1910.1200.

CERCLA/SUPERFUND, 40 CFR 117, 302: None of the chemicals are Superfund hazards

SARA SUPERFUND AND REAUTHORIZATION ACT OF 1986 TITLE III Sections 302, 311, 312 and 313: Section 302 Extremely hazardous substances (40 CFR 355): None of the chemicals are Section 302 hazards.

Section 311/312 - Material Safety Data Sheet Requirements (40 CFR 370): By our hazard evaluation, this product is non-hazardous.

TOXIC SUBSTANCE CONTROL ACT (TSCA): All substances are TSCA Listed.

Section 311/312 - Material Safety Data Sheet Requirements (40 CFR 370): By our hazard evaluation, this product is non-hazardous.

TOXIC SUBSTANCE CONTROL ACT (TSCA): All substances are TSCA Listed.

**International Regulations:**

Canada Whims: NA

Europe EINECS Numbers: NA

Canadian Substance Inventory: One or more of the components of this product do not appear in the Canadian Substance Inventory.

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**Section 16. OTHER INFORMATION****Label Information:**

**European risk and Safety Phrases:** N/A

**European Symbols Needed:** N/A

**Canadian WHIMS Symbols:** N/A

**NFPA Hazard Rating:** (1) Flammability (1) Health (0) Reactivity

**Abbreviations Used in this Document:** NE - Not Established, NA - Not Applicable/Not Available, NIF - No Information Found

**References:** Code of Federal Regulations (CFR)  
The Sigma-Aldrich Library of Regulatory and Safety Data  
Chemical Guide and OSHA Hazard Communication Standard  
Various Federal, State & Local Regulations

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