

# SAFETY DATA SHEET



## SECTION 1 – IDENTIFICATION AND COMPANY DETAIL

**Product Name:** B-10 / 117A Electrolyte  
**Product Code(s):** Monode B-10, LectorEtch 117A  
**Recommended Use:** For use in the Electro-Chemical Etching Process  
**Manufacturers Name:** Monode Marking Products, Inc.  
**Address:** 9200 Tyler Boulevard  
Mentor, OH 44060

**Emergency Telephone:** (440) 975-8802, available during office hours,  
8:00am - 5:00pm EST, Monday - Friday, in English.

**Fax Number:** (440) 975-8836  
**Date Prepared:** 31 March 2015

| HMIS                |   |
|---------------------|---|
| H                   | 1 |
| F                   | 0 |
| R                   | 1 |
| PPE <sup>†</sup>    |   |
| <sup>†</sup> Sec. 8 |   |

## SECTION 2 – HAZARDS IDENTIFICATION



**Hazardous Pictogram:**

**Signal Word:** **WARNING**

**Precautionary Statement:** Harmful if swallowed.  
Do not swallow.  
Avoid Skin and Eye contact.

**Inhalation:** N/A  
**Ingestion:** Irritation of G.I. tract and kidneys. Nausea, and possible facial discoloration.  
**Skin contact:** Irritating on contact. Dermatitis possibly aggravated.  
**Eye contact:** Irritating on contact. Mild burning.

## SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

**Hazardous Components (specific chemical identity/ Common name):**

**SOLIDS:** Nitrate Salts 8% (trade secret)  
Chlorate Salts 4% (trade secret)

**LIQUIDS:**

**TRADE SECRET:** The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.



## SAFETY DATA SHEET

---

### SECTION 4 – FIRST AID MEASURES

---

**Skin contact:** Wash thoroughly with water for fifteen minutes.  
**Eye contact:** Flush thoroughly with water for fifteen minutes.  
**Ingestion:** Give emetic and call physician immediately.  
**Inhalation:** N/A

**Always seek medical attention if irritation continues.**

---

### SECTION 5 – FIRE-FIGHTING MEASURES

---

**Suitable extinguishing media:** N/A  
**Special fire fighting procedures:** N/A  
**Unusual fire and explosions hazards:** N/A

---

### SECTION 6 – ACCIDENTAL RELEASE MEASURES

---

**Steps to be taken in case material is released or spilled:**

**SMALL SPILLS:** Flush with water to sewer.

**LARGE SPILLS:** Use suitable absorbent and dispose of in dot approved waste containers.

**WASTE DISPOSAL:** To be performed in compliance with all current local, state and federal regulations.

---

### SECTION 7 – PRECAUTIONS FOR SAFE HANDLING AND USE

---

**Steps to be taken in the event of spillage or chemical release:**

**Waste disposal method:** To be performed in compliance with all current local, state and federal regulations.

**Precautions to be taken in Handling and Storage:** Keep container tightly closed, and keep from freezing (32°F).

Wash hands thoroughly after handling.

**Other Precautions:** None.

---

### SECTION 8 – EXPOSURE CONTROLS – PERSONAL PROTECTION

---

**Occupation Exposure Limits:** N/A

**Personal Protective Equipment:**

**Respiratory System:** N/A

**Skin and Body:** Optional apron

**Hands:** Optional - For sensitive skin, rubber gloves

**Eyes:** For extra protection, wear safety goggles.

**Other/Special:** Local exhaust sufficient

---

### SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

---



## SAFETY DATA SHEET

**Physical State:** Liquid  
**Color:** Clear  
**Odor:** Slight odor  
**Odor Threshold:** N/A  
**pH:** 6.6 to 7.0  
**Boiling Point:** 212°F  
**Melting / Freezing Point:** Melting - N/A Freezing - below 32°F  
**Flash Point:** N/A  
**Fire Hazards in presence of various substances:** N/A  
**Auto-ignition temperature:** N/A  
**Explosive Properties:** N/A  
**Lower explosion limit:** N/A  
**Oxidizing properties:** N/A  
**Vapor Pressure (mm Hg.): @25°C (77°F):** 23.7  
**Evaporation Rate:** N/A  
**Density:** N/A  
**Solubility:** Complete (100%)  
**Vapor Density:** N/A

---

### SECTION 10 – REACTIVITY DATA

---

**Stability:** Stable  
**Conditions to avoid:** N/A  
**Incompatibility: (materials to avoid)** Reducing agents, combustible materials.  
**Hazardous Decomposition or By-products:** None, but surrounding fire may produce nitrogen oxides.  
**Hazardous polymerization:** Will not occur.

---

### SECTION 11 – TOXICOLOGICAL INFORMATION

---

**Carcinogenicity:** NTP: No IARC: No OSHA: No

**Health Hazards (Acute & Chronic);**

Irritation of G.I. tract and kidneys.  
Irritating on contact to skin and eyes.  
Nausea and possible facial discoloration.  
Dermatitis possibly aggravated from exposure.

---

### SECTION 12 – ECOLOGICAL INFORMATION

---

N/A

---

### SECTION 13 – DISPOSAL CONSIDERATIONS

---

Observe all federal, state and local environmental regulations.



## SAFETY DATA SHEET

---

### SECTION 14 – TRANSPORT INFORMATION

---

**Special Precautions:** Keep container tightly closed. Keep from freezing ( 32 degrees [F] ).

This is a Non-Hazardous product.

**UN Number**

US DOT (United States Department of Transportation): Not Regulated

IMO/IMDG (International Maritime Dangerous Goods): Not Regulated

IATA (International Air Transport Association): Not Regulated

ADR (Agreement on Dangerous Goods by Road (Europe)): Not Regulated

RID (Regulations Concerning The International Transport of Dangerous Goods (Europe)): Not Regulated

AND (European Agreement Concerning The Carriage of dangerous Goods by Inland Waterways): Not Regulated

---

### SECTION 15 – TRANSPORT INFORMATION

---

**IRRITANT**

**Safety Phrases:** N/A

**Risk Phrases:** N/A

**Regulations:** N/A

---

### SECTION 16 – OTHER INFORMATION

---

**Source of key data used to**

**Compile Safety Data Sheet:** Material Safety Data Sheet. Essentially similar to U.S. Department of Labor Form OSHA-20

**Issue Date:** 15 May 1990

**Changes to Issue:** 14 June 2024

WE CANNOT ANTICIPATE ALL CONDITIONS UNDER WHICH THIS INFORMATION AND OUR PRODUCTS, OR THE PRODUCTS OF OTHER MANUFACTURERS IN COMBINATION WITH OUR PRODUCTS MAY BE USED. WE ACCEPT NO RESPONSIBILITY FOR RESULTS OBTAINED BY THE APPLICATIONS OF THIS INFORMATION OR THE SAFETY AND SUITABILITY OF OUR PRODUCTS, EITHER ALONE OR IN COMBINATION WITH OTHER PRODUCTS. USERS ARE ADVISED TO MAKE THEIR OWN TESTS TO DETERMINE THE SAFETY AND SUITABILITY OF EACH SUCH PRODUCT OR PRODUCT COMBINATION FOR THEIR OWN PURPOSES. UNLESS OTHERWISE AGREED IN WRITING, WE SELL THE PRODUCTS WITHOUT WARRANTY, AND BUYERS AND USERS ASSUME ALL RESPONSIBILITY AND LIABILITY FOR LOSS OR DAMAGE ARISING FROM THE HANDLING AND USE OF OUR PRODUCTS, WHETHER USED ALONE OR IN COMBINATION WITH OTHER PRODUCTS.

THE FORMULAS USED FOR THESE PRODUCTS ARE CONSIDERED CONFIDENTIAL TRADE SECRETS. THIS INFORMATION IS FOR OUR CUSTOMERS EYES ONLY.

MONODE COMPLIES WITH ALL APPLICABLE RULES AND REGULATIONS UNDER THE TSCA. (TOXIC SUBSTANCES CONTROL ACT)

© MONODE MARKING PRODUCTS, INC.