



## Safety Data Sheet

Material Name: E-Strip 930

SDS ID: EPI-0423c

### Section 1 - PRODUCT AND COMPANY IDENTIFICATION

**Material Name**

E-Strip 930

**Details of the supplier of the safety data sheet**

Electrochemical Products Inc.

17000 West Lincoln Ave

New Berlin, WI 53151

Phone: 262-786-9330

Emergency Phone #: NCEC (#EPI-29003) +1 202 464 2554, +44 1865 407333

E-mail: us-sales@epi.com

www.epi.com

Fax: 262-786-9403

### Section 2 - HAZARDS IDENTIFICATION

**Classification in accordance with paragraph (d) of 29 CFR 1910.1200.**

Skin Corrosion/Irritation - Category 1

Serious Eye Damage/Eye Irritation - Category 1

**GHS Label Elements**

**Symbol(s)**



**Signal Word**

Danger

**Hazard Statement(s)**

Causes severe skin burns and eye damage.

**Precautionary Statement(s)**

**Prevention**

Wear protective gloves/protective clothing/eye protection/face protection.

Wash thoroughly after handling.

Do not breathe dusts or mists.

**Response**

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

Wash contaminated clothing before reuse.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Immediately call a POISON CENTER or doctor.

Specific treatment (see label).

**Storage**

Store locked up.



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### Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

### Other Hazards

Breathing mist or spray of this product may cause damage to the upper respiratory tract and lung tissue which can cause chemical pneumonia, depending upon severity of exposure. This product is destructive to skin and eye tissues on contact. Will cause severe burns. It may cause eye damage or blindness. If swallowed, can cause severe burns and complete tissue perforation of mucous membranes of the mouth, throat, esophagus and stomach.

## Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent
1310-73-2	Sodium hydroxide	3-6
7732-18-5	Water	85-90

## Section 4 - FIRST AID MEASURES

### Inhalation

If inhaled, immediately remove the affected person to fresh air. If breathing is irregular or stopped, administer artificial respiration.

### Skin

For skin contact flush with large amounts of water while removing contaminated clothing.

### Eyes

Flush immediately with water for at least 15 minutes. Do not rub eyes. If irritation persists, get medical attention.

### Ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to a victim who is unconscious or is having convulsions.

### Most Important Symptoms/Effects

#### Acute

Breathing dust, mist or spray of this product may cause damage to the upper respiratory tract and lung tissue which can cause chemical pneumonia, depending on the severity of exposure.

## Section 5 - FIRE FIGHTING MEASURES

### Extinguishing Media

#### Suitable Extinguishing Media

Water spray, dry chemical, carbon dioxide.

#### Unsuitable Extinguishing Media

None known.

### Hazardous Combustion Products

Decomposition of this product may emit oxides of nitrogen and carbon monoxide.

## Section 6 - ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment and Emergency Procedures

Isolate area. Keep unnecessary personnel away. Wear appropriate protective equipment during cleanup.



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### Methods and Materials for Containment and Cleaning Up

Wear appropriate protective equipment and clothing during clean-up. Material is corrosive; avoid contact during clean up. Avoid the generation of dusts during clean-up. Scoop up gross quantities of spilled material. Sweep up remaining material and dispose of contaminated material. After containment, it should be shoveled up or removed by vacuum truck (if liquid) to chemical waste area. Neutralize residue with dilute acid. Flush spill area with water followed by liberal coverage of Sodium Bicarbonate.

## Section 7 - HANDLING AND STORAGE

### Precautions for Safe Handling

Wash thoroughly after handling.

### Conditions for Safe Storage, Including any Incompatibilities

Store locked up.

Keep container tightly closed.

## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

### Component Exposure Limits

Sodium hydroxide	1310-73-2
ACGIH:	2 mg/m <sup>3</sup> Ceiling
NIOSH:	2 mg/m <sup>3</sup> Ceiling
	10 mg/m <sup>3</sup> IDLH
OSHA (US):	2 mg/m <sup>3</sup> TWA
Mexico:	2 mg/m <sup>3</sup> Ceiling

### ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)

There are no biological limit values for any of this product's components.

### Appropriate engineering controls

Use general ventilation and use local exhaust, where possible, in confined or enclosed spaces.

### Individual Protection Measures, such as Personal Protective Equipment

#### Eye/face protection

Wear safety glasses with side shields or chemical goggles.

#### Skin Protection

Use of protective coveralls and long sleeves is recommended.

#### Respiratory Protection

If ventilation is not sufficient to effectively prevent buildup of vapor/mist/fume/dust, appropriate NIOSH/MSHA respiratory protection must be provided.

#### Glove Recommendations

Wear impervious gloves.

#### Protective Materials

Eye wash fountain and emergency showers are recommended. Use good industrial hygiene practices in handling this material.

## Section 9 - PHYSICAL AND CHEMICAL PROPERTIES



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<b>Appearance</b>	Clear liquid.	<b>Physical State</b>	liquid
<b>Odor</b>	Characteristic.	<b>Color</b>	Slightly amber solution.
<b>Odor Threshold</b>	Not available	<b>pH</b>	13 - 14 (Solution)
<b>Melting Point</b>	Not available	<b>Boiling Point</b>	>212
<b>Boiling Point Range</b>	Not available	<b>Freezing point</b>	<32
<b>Evaporation Rate</b>	Not available	<b>Flammability (solid, gas)</b>	Not available
<b>Autoignition Temperature</b>	Not available	<b>Flash Point</b>	Not available
<b>Lower Explosive Limit</b>	Not available	<b>Decomposition temperature</b>	Not available
<b>Upper Explosive Limit</b>	Not available	<b>Vapor Pressure</b>	Not available
<b>Vapor Density (air=1)</b>	Not available	<b>Specific Gravity (water=1)</b>	1.08 - 1.1
<b>Water Solubility</b>	Completely	<b>Partition coefficient: n-octanol/water</b>	Not available
<b>Viscosity</b>	Not available	<b>Solubility (Other)</b>	Not available
<b>Density</b>	Not available	<b>VOC</b>	0
<b>Molecular Weight</b>	Not available		

### Section 10 - STABILITY AND REACTIVITY

#### Reactivity

Explosive HYDROGEN GAS may be released if aqueous solutions of this material come into contact with reactive metals (IRON, ZINC, ALUMINUM).

#### Chemical Stability

Stable under normal conditions.

#### Possibility of Hazardous Reactions

Will not occur.

#### Conditions to Avoid

Avoid contact with acids.

#### Incompatible Materials

This product may react with strong acids.

#### Hazardous decomposition products

Explosive HYDROGEN GAS may be released if aqueous solutions of this material come into contact with reactive metals (ZINC and ALUMINUM).

#### Thermal decomposition products



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Upon thermal decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

## Section 11 - TOXICOLOGICAL INFORMATION

### Acute and Chronic Toxicity

#### Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

#### Sodium hydroxide (1310-73-2)

Dermal LD50 Rabbit 1350 mg/kg

#### Water (7732-18-5)

Oral LD50 Rat >90 mL/kg

#### m-Nitrobenzenesulfonic acid, sodium salt (127-68-4)

Oral LD50 Rat 11 g/kg

Inhalation LC50 Rat >5.1 mg/L 4 h (no deaths occurred )

#### Product Toxicity Data

##### Acute Toxicity Estimate

Dermal	> 2000 mg/kg
Inhalation - Vapor	> 20 mg/L
Oral	> 2000 mg/kg

##### Immediate Effects

No information on significant adverse effects.

##### Delayed Effects

No information on significant adverse effects.

##### Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, NTP, DFG or OSHA

## Section 12 - ECOLOGICAL INFORMATION

### Component Analysis - Aquatic Toxicity

<b>Sodium hydroxide</b>	<b>1310-73-2</b>
Fish:	LC50 96 h Oncorhynchus mykiss 45.4 mg/L [static ]
<b>m-Nitrobenzenesulfonic acid, sodium salt</b>	<b>127-68-4</b>
Algae:	EC50 72 h Desmodesmus subspicatus >500 mg/L IUCLID
Invertebrate:	LC50 48 h Daphnia magna 8665 mg/L EPA

## Section 13 - DISPOSAL CONSIDERATIONS

### Disposal Methods



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Dispose of waste material in accordance with all applicable Federal, State or provincial and local environmental regulations. See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations. In case of large spills, follow all facility emergency response procedures. As shipped, this product would be considered a D002 (corrosive) waste.

### Component Waste Numbers

The U.S. EPA has not published waste numbers for this product's components

## Section 14 - TRANSPORT INFORMATION

### US DOT Information:

**Shipping Name:** SODIUM HYDROXIDE SOLUTION

**Hazard Class:** 8

**UN/NA #:** UN1824

**Packing Group:** II

**Required Label(s):** Corrosive

### TDG Information:

**Shipping Name:** SODIUM HYDROXIDE SOLUTION

**Hazard Class:** 8

**UN#:** UN1824

**Packing Group:** II

**Required Label(s):** Corrosive

## Section 15 - REGULATORY INFORMATION

### U.S. Federal Regulations

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

<b>Sodium hydroxide</b>	<b>1310-73-2</b>
CERCLA:	1000 lb final RQ ; 454 kg final RQ
<b>m-Nitrobenzenesulfonic acid, sodium salt</b>	<b>127-68-4</b>
TSCA 12b:	Section 4 , 1 % de minimus concentration

### Not listed under California Proposition 65

#### Component Analysis - Inventory

#### Sodium hydroxide (1310-73-2)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	No	Yes	Yes	Yes	Yes

#### Water (7732-18-5)



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US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	No	No	Yes	No	No	Yes	Yes	Yes	Yes

### m-Nitrobenzenesulfonic acid, sodium salt (127-68-4)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	No	Yes	Yes	Yes	Yes

### Section 16 - OTHER INFORMATION

#### Other Information

##### Disclaimer:

Reasonable care has been taken in the preparation of this information; however, the manufacturer makes no warranty whatsoever including the warranty of merchantability, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental, consequential, or other such damages resulting from its use or misuse..