



## Safety Data Sheet

Material Name: E-Pik 230

SDS ID: EPI-0076c

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### Section 1 - PRODUCT AND COMPANY IDENTIFICATION

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**Material Name**

E-Pik 230

**Product Use**

Alkaline Deruster.

**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

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### Section 2 - HAZARDS IDENTIFICATION

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

Acute Toxicity - Dermal - Category 4

Skin Corrosion/Irritation - Category 1

Serious Eye Damage/Eye Irritation - Category 1

Hazardous to the Aquatic Environment - Acute - Category 3

Hazardous to the Aquatic Environment - Chronic - Category 3

**GHS Label Elements**

**Symbol(s)**



**Signal Word**

Danger

**Hazard Statement(s)**

Harmful in contact with skin.

Causes severe skin burns and eye damage.

Harmful to aquatic life with long lasting effects.



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### Precautionary Statement(s)

#### Prevention

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

Wash thoroughly after handling.

Avoid release to the environment.

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.

Take off contaminated clothing and wash 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.

#### Disposal

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

#### Statement of Unknown Toxicity

0% of the mixture consists of ingredient(s) of unknown acute toxicity.

#### Other Hazards

If swallowed can cause complete tissue perforation of mucous membranes of the mouth, throat, esophagus and stomach. 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.

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### Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

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CAS	Component Name	Percent
1310-73-2	Sodium Hydroxide	70-80
Surfactant Blend	Surfactant Blend	0-2

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### Section 4 - FIRST AID MEASURES

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### Inhalation

If inhaled, immediately remove the affected person to fresh air. If the affected person is not breathing, apply artificial respiration. Call a physician if symptoms develop or persist.

### Skin

Immediately flush skin with lots of water for 30 minutes. Remove contaminated clothing and shoes. Wash before reuse. Get immediate medical attention. If skin still feels slippery, caustic maybe still present in large enough quantities to cause rash burn. Continue to wash the affective area until it does not feel slippery.

### Eyes

Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Seek medical attention at once.

### Ingestion

Do NOT induce vomiting. If conscious, drink large quantities of water or acidic beverages like tomato or orange juice or carbonated soft drinks. If vomiting does occur administer additional water. Never give anything by mouth to a victim who is unconscious or is having convulsions. Call a physician immediately.

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## Section 5 - FIRE FIGHTING MEASURES

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### Extinguishing Media

#### Suitable Extinguishing Media

Water spray, dry chemical, carbon dioxide.

#### Unsuitable Extinguishing Media

None known.

### Special Hazards Arising from the Chemical

None identified.

### Fire Fighting Measures

Firefighters should wear full-face, self-contained breathing apparatus and impervious protective clothing. Firefighters should avoid inhaling any combustion products.

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## Section 6 - ACCIDENTAL RELEASE MEASURES

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### Personal Precautions, Protective Equipment and Emergency Procedures

Isolate area. Keep unnecessary personnel away. Wear appropriate protective equipment during cleanup. Avoid inhalation of dust from the spilled material.

### Methods and Materials for Containment and Cleaning 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. If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with product. (DO NOT USE SAWDUST).



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### Environmental Precautions

Neutralize with dilute acid. Flush spill area with water followed by liberal coverage of sodium bicarbonate. Dispose of collected material according to regulation.

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## Section 7 - HANDLING AND STORAGE

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### Precautions for Safe Handling

Avoid getting this material into contact with your eyes. Wash thoroughly after handling. Avoid the formation of airborne dusts. Keep container tightly closed and store at room temperature.

### Conditions for Safe Storage, Including any Incompatibilities

Store locked up.

Keep in a cool, well-ventilated place away from acids.

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## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

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### 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

### EU - Occupational Exposure (98/24/EC) - Binding Biological Limit Values and Health Surveillance Measures

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

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

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

### 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 chemical goggles; face shield (if splashing is possible).

#### Skin Protection

Use of protective coveralls and long sleeves is recommended to prevent skin contact.



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### 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

Use of impervious gloves is recommended.

### 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

<b>Appearance</b>	White to Light Tan Powder	<b>Physical State</b>	Powder
<b>Odor</b>	Odorless	<b>Color</b>	Not available
<b>Odor Threshold</b>	Not available	<b>pH</b>	Not available
<b>Melting Point</b>	Not available	<b>Boiling Point</b>	Not available
<b>Freezing point</b>	Not available	<b>Evaporation Rate</b>	Not available
<b>Boiling Point Range</b>	Not available	<b>Flammability (solid, gas)</b>	Not available
<b>Autoignition</b>	Not available	<b>Flash Point</b>	Not available
<b>Lower Explosive Limit</b>	Not available	<b>Decomposition</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>	Not available
<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



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Density	Not available	VOC	0
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### Section 10 - STABILITY AND REACTIVITY

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#### Reactivity

Contact with some metals, particularly magnesium, aluminum, zinc (galvanized) can rapidly generate hydrogen which can be explosive.

#### Chemical Stability

Stable under normal conditions.

#### Possibility of Hazardous Reactions

Will not occur.

#### Conditions to Avoid

Avoid contact with extreme heat.

#### Incompatible Materials

This product may react with strong acids.

#### Hazardous decomposition products

At thermal decomposition temperatures, carbon monoxide and carbon dioxide.

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### Section 11 - TOXICOLOGICAL INFORMATION

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#### 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

##### Immediate Effects

No information on significant adverse effects.

##### Delayed Effects

No information on significant adverse effects.

##### Irritation/Corrosivity Data

No data available.

##### Respiratory Sensitization

No data available.

##### Dermal Sensitization

No data available.



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### Component Carcinogenicity

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

### Germ Cell Mutagenicity

No data available.

### Tumorigenic Data

No data available

### Reproductive Toxicity

No data available.

### Specific Target Organ Toxicity - Single Exposure

No data available.

### Specific Target Organ Toxicity - Repeated Exposure

No data available.

### Aspiration hazard

No data available.

### Medical Conditions Aggravated by Exposure

No data available.

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## Section 12 - ECOLOGICAL INFORMATION

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### Ecotoxicity

Because of the high pH of this product, it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.

### Component Analysis - Aquatic Toxicity

Sodium Hydroxide	1310-73-2
Fish:	LC50 96 h Oncorhynchus mykiss 45.4 mg/L [static]

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## Section 13 - DISPOSAL CONSIDERATIONS

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### Disposal Methods

As shipped, this product would be considered a D002 (corrosive) waste. Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations. In case of large spills, follow all facility emergency response procedures.

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## Section 14 - TRANSPORT INFORMATION

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### US DOT Information:

**Shipping Name:** Sodium hydroxide, solid

**Hazard Class:** 8

**UN/NA #:** UN1823

**Packing Group:** II

**Required Label(s):** Corrosive

### TDG Information:

**Shipping Name:** Sodium hydroxide, solid

**Hazard Class:** 8

**UN#:** UN1823

**Packing Group:** II

**Required Label(s):** Corrosive

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## Section 15 - REGULATORY INFORMATION

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### 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.

Sodium Hydroxide	1310-73-2
CERCLA:	1000 lb final RQ

### U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA
Sodium Hydroxide	1310-73-2	Yes	Yes	Yes	Yes	Yes

### Not listed under California Proposition 65

### Canada Regulations

This material is a controlled product under Canadian WHMIS regulations.

### Canadian WHMIS Ingredient Disclosure List (IDL)

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL

Sodium Hydroxide	1310-73-2
	1 %

### Component Analysis - Inventory





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Sodium Hydroxide (1310-73-2)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes

### Section 16 - OTHER INFORMATION

#### HMIS Rating

Health: 3 Fire: 0 Reactivity: 1

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

#### NFPA Ratings

Health: 3 Fire: 0 Reactivity: 1

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

#### Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; ENCS - Japan Existing and New Chemical Substance Inventory; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; ISHL - Japan Industrial Safety and Health Law; JP - Japan; Kow - Octanol/water partition coefficient; KECI - Korea Existing Chemicals Inventory; KECL - Korea Existing Chemicals List; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; MX - Mexico; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH - Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TCCA - Korea Toxic Chemicals Control Act.; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TW - Taiwan; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States.

#### Other Information



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**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..