



## Safety Data Sheet

Material Name: E-Pik 211

SDS ID: EPI-0250c

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### Section 1 - PRODUCT AND COMPANY IDENTIFICATION

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**Material Name**

E-Pik 211

**Product Use**

Acid salt.

**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 #: Chemtrec #800-424-9300 (CCN7498)  
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 - Oral - 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 if swallowed.  
Causes severe skin burns and eye damage.  
Harmful to aquatic life with long lasting effects.

**Precautionary Statement(s)**



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### Prevention

Wear protective gloves/protective clothing/eye protection/face protection.  
Wash thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
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.  
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.

### 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

Causes severe eye, skin and respiratory tract irritation. Ingestion of this preparation is unlikely. However, ingestion may produce gastrointestinal irritation and disturbances.

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## Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

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CAS	Component Name	Percent
5329-14-6	Sulfamic acid	30-60
7681-38-1	Sodium bisulfate	30-60

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## Section 4 - FIRST AID MEASURES

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### Inhalation

If inhaled, remove victim to fresh air.



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### **Skin**

Flush with water. Wash with soap and water.

### **Eyes**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

### **Ingestion**

Rinse mouth immediately and drink plenty of water. Never give anything by mouth to a victim who is unconscious or is having convulsions. Do NOT induce vomiting.

### **Note to Physicians**

None identified.

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## Section 5 - FIRE FIGHTING MEASURES

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### **Extinguishing Media**

#### **Suitable Extinguishing Media**

Dry chemical, alcohol foam, carbon dioxide, water spray.

#### **Unsuitable Extinguishing Media**

Avoid using a direct stream of water.

### **Special Hazards Arising from the Chemical**

Extinguish all nearby sources of ignition since flammable hydrogen gas will be liberated from contact with some metals.

### **Hazardous Combustion Products**

When heated over 570°, sulfur dioxide and sulfur trioxide are formed.

### **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**

Take proper precautions to ensure your own health and safety before attempting spill control or clean-up. For more specific information, refer to the Emergency Overview on Page 1, Exposure Controls and Personal Protection in Section 8 and Disposal Considerations in Section 13 of this SDS.

### **Methods and Materials for Containment and Cleaning Up**

Sweep up material and place into a sealable, properly labeled container for disposal. Contain the discharged material, if this is without risk.

### **Environmental Precautions**

Do not flush to sewer. Comply with regulations for spill reporting.



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### Section 7 - HANDLING AND STORAGE

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#### **Precautions for Safe Handling**

Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and removal of the material from eyes, skin and clothing.

#### **Conditions for Safe Storage, Including any Incompatibilities**

Store locked up.

Keep the container tightly closed in original container and in a cool, well-ventilated place.

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### Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

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#### **Component Exposure Limits**

ACGIH, NIOSH, EU, OSHA (US) and Mexico have not developed exposure limits for any of this product's components

#### **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.

##### **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 in the workplace. Use good industrial hygiene practices in handling this material.

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### Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

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<b>Appearance</b>	White to light tan.	<b>Physical State</b>	Powder
<b>Odor</b>	Characteristic	<b>Color</b>	White to light tan
<b>Odor Threshold</b>	Not available	<b>pH</b>	<1.5 , conc: 5 % (solution)
<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>	Complete	<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		

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### Section 10 - STABILITY AND REACTIVITY

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#### Reactivity

Will not occur.

#### Chemical Stability

This is a stable material.

#### Possibility of Hazardous Reactions

Will not occur.

#### Conditions to Avoid

Avoid contact with extreme heat.

#### Incompatible Materials



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This product may react with alkalis, strong reducing agents, organic compounds and cyanides. Flammable and combustible materials.

### Hazardous decomposition products

None, unless heated over 570° at which sulfur dioxide and sulfur trioxide are formed.

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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:

Sulfamic acid (5329-14-6)

Oral LD50 Rat 1450 mg/kg

Sodium bisulfate (7681-38-1)

Oral LD50 Rat 2490 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.

#### 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.



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### 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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### Component Analysis - Aquatic Toxicity

Sulfamic acid	5329-14-6
Fish:	LC50 96 h Pimephales promelas 14.2 mg/L [static]
Sodium bisulfate	7681-38-1
Invertebrate:	EC50 48 h Daphnia magna 190 mg/L IUCLID

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## Section 13 - DISPOSAL CONSIDERATIONS

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### Disposal Methods

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.

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## Section 14 - TRANSPORT INFORMATION

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### US DOT Information:

**Shipping Name:** Sulfamic Acid

**Hazard Class:** 8

**UN/NA #:** 2967

**Packing Group:** III

**Required Label(s):** Corrosive

### TDG Information:

**Shipping Name:** Sulfamic Acid

**Hazard Class:** 8

**UN#:** 2967

**Packing Group:** III

**Required Label(s):** Corrosive

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## Section 15 - REGULATORY INFORMATION

### U.S. Federal Regulations

None of this products components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

### 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
Sulfamic acid	5329-14-6	No	No	No	Yes	No

### 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

Sulfamic acid	5329-14-6
	1 %
Sodium bisulfate	7681-38-1
	1 %

### Component Analysis - Inventory

Sulfamic acid (5329-14-6)

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

Sodium bisulfate (7681-38-1)

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





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### Section 16 - OTHER INFORMATION

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#### HMIS Rating

Health: 2 Fire: 0 Reactivity: 0

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

#### NFPA Ratings

Health: 2 Fire: 0 Reactivity: 0

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; 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; JP - Japan; Kow - Octanol/water partition coefficient; 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; 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; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States.