



## Safety Data Sheet

Material Name: E-Brite 30/37

SDS ID: EPI-0711c

### Section 1 - PRODUCT AND COMPANY IDENTIFICATION

**Material Name**

E-Brite 30/37

**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).



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### Storage

Store locked up.

### Disposal

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

### Other Hazards

Inhalation of mists or vapors may produce upper airway edema, wheezing, pulmonary edema, pneumonitis and respiratory failure. This product may be severely irritating or corrosive to the eyes. This product is severely irritating or corrosive to the skin. If swallowed, can cause burns or irritation of mucous membranes of the mouth, throat, esophagus and stomach.

## Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent
7732-18-5	Water	30-50
2809-21-4	Phosphonic acid, (1-hydroxyethylidene)bis-	55-65

## Section 4 - FIRST AID MEASURES

### Inhalation

If inhaled, immediately remove the affected person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen if qualified personnel are available.

### Skin

Immediately flush skin with lots of running water for 15 minutes. Remove contaminated clothing and shoes. Wash before reuse. Get immediate medical attention.

### Eyes

Object is to flush material out immediately then seek medical attention. Washing eyes within one (1) minute is essential to achieve maximum effectiveness. Immediately flush with lots of running water for 30 minutes, lifting the upper and lower eye lids occasionally. Get immediate medical attention.

### Ingestion

If swallowed, get immediate medical attention! DO NOT INDUCE VOMITING! Give large quantities of water. Never give anything by mouth to an unconscious person. Aspiration hazard: If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.

## Section 5 - FIRE FIGHTING MEASURES

### Extinguishing Media

#### Suitable Extinguishing Media

Dry chemical, foam, carbon dioxide, water fog.

#### Unsuitable Extinguishing Media

None identified.

### Special Hazards Arising from the Chemical

Carbon monoxide and carbon dioxide. Phosphorus oxides.

### Hazardous Combustion Products

Carbon monoxide and carbon dioxide. Phosphorus oxides.

### Advice for firefighters



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None identified.

### Fire Fighting Measures

Use methods suitable to fight surrounding fire. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. If possible, firefighters should control runoff water to prevent environmental contamination. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## Section 6 - ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment and Emergency Procedures

Wear protective gloves and eye/face protection.

### Methods and Materials for Containment and Cleaning Up

None identified.

### Environmental Precautions

Dike and contain the spill with sand and earth. Sweep up and shovel into suitable containers for disposal. Do not flush to sewer.

## Section 7 - HANDLING AND STORAGE

### 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.

Store in a dry place. Store in a closed container.

## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

### Component Exposure Limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

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

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

### Engineering Controls

Local exhaust is suggested for use, where possible, in enclosed or confined spaces. Use a NIOSH-approved respirator if exposure limits are exceeded.

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

#### Eye/face protection

Wear chemical goggles and / or face shield. It is generally recommended that contact lenses should not be worn when working with chemicals because they may contribute to the severity of an eye injury.

#### Skin Protection

Wear rubber gloves, long sleeved shirt and trousers. Use body protection appropriate for task (e.g., Tyvek suit, rubber apron).

#### 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 rubber gloves.



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### Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear liquid.	Physical State	Liquid
Odor	Acidic.	Color	Colorless.
Odor Threshold	Not available	pH	<2
Melting Point	Not available	Boiling Point	212 °F
Boiling Point Range	Not available	Freezing point	32 °F (0 °C)
Evaporation Rate	(Approx. equal to Water)	Flammability (solid, gas)	Not available
Autoignition Temperature	Not available	Flash Point	Not available
Lower Explosive Limit	Not available	Decomposition temperature	Not available
Upper Explosive Limit	Not available	Vapor Pressure	Not available
Vapor Density (air=1)	(Approx. equal to water)	Specific Gravity (water=1)	1.4 - 1.6
Water Solubility	Completely	Partition coefficient: n-octanol/water	Not available
Viscosity	Not available	Kinematic viscosity	Not available
Solubility (Other)	Not available	Density	Not available
VOC	0	Molecular Weight	Not available

### Section 10 - STABILITY AND REACTIVITY

#### Reactivity

Hazardous polymerization will not occur under normal conditions of storage and use. This product may react with aluminum, zinc, and tin to generate flammable hydrogen gas. Also reacts with Cyanides, Sulfides, and Carbides.

#### Chemical Stability

This is a stable material.

#### Possibility of Hazardous Reactions

Hazardous polymerization will not occur.



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### Conditions to Avoid

Avoid contact with strong oxidizers, strong acids and strong bases. Cyanides. Zinc. Do not store in sunlight. Do not store above 120°F (49°C).

### Incompatible Materials

Avoid contact with alkalis, oxidizing and reducing materials, cyanides, sulfides and combustible materials.

### Hazardous decomposition products

Carbon monoxide and carbon dioxide. Phosphorus oxides.

### Thermal decomposition products

Carbon monoxide and carbon dioxide. Phosphorus oxides.

## 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:

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

Oral LD50 Rat >90 mL/kg

#### Phosphonic acid, (1-hydroxyethylidene)bis- (2809-21-4)

Oral LD50 Rat 3130 mg/kg (in 50% aqueous solution)

Dermal LD50 Rabbit >10000 mg/kg

### Product Toxicity Data

#### Acute Toxicity Estimate

Inhalation - Vapor	--
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### 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.

### Aspiration hazard



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No data available.

### Medical Conditions Aggravated by Exposure

No data available.

## Section 12 - ECOLOGICAL INFORMATION

### Component Analysis - Aquatic Toxicity

Phosphonic acid, (1-hydroxyethylidene)bis-	2809-21-4
Fish:	LC50 96 h Lepomis macrochirus 868 mg/L [static ]; LC50 96 h Oncorhynchus mykiss 360 mg/L [static ]
Invertebrate:	EC50 48 h Daphnia magna 527 mg/L IUCLID

## Section 13 - DISPOSAL CONSIDERATIONS

### Disposal Methods

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

### 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:** CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. , ( Contains: 1-Hydroxyethane-1,1-diphosphonic acid. )

**Hazard Class:** 8

**UN/NA #:** UN3265

**Packing Group:** III

**Required Label(s):** corrosive

### TDG Information:

**Shipping Name:** CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. , ( Contains: Phosphonic acid, [nitrilotris(methylene)]tris-, sodium salt. )

**Hazard Class:** 8

**UN#:** UN3265

**Packing Group:** III

**Required Label(s):** corrosive

### International Bulk Chemical Code

This material does not contain any chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.

## Section 15 - REGULATORY INFORMATION

### U.S. Federal Regulations



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None of this product's 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. All components are on the U.S. EPA TSCA Inventory List. Supplier(s) of proprietary component(s) have stated that their components appear on the Canadian DSL/NDSL.

### SARA Section 311/312 (40 CFR 370 Subparts B and C) reporting categories

Skin Corrosion/Irritation; Serious Eye Damage/Eye Irritation

### U.S. State Regulations

None of this product's components are listed on the state lists from CA, MA, MN, NJ or PA.

### California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)

Not listed under California Proposition 65.

### Component Analysis - Inventory

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

US	CA	AU	CN	EU	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2
Yes	DSL	Yes	Yes	EIN	Yes	No	Yes	No

KR - REACH CCA	MX	NZ	PH	TH-TECI	TW, CN	VN (Draft)
No	Yes	Yes	Yes	Yes	Yes	Yes

#### Phosphonic acid, (1-hydroxyethylidene)bis- (2809-21-4)

US	CA	AU	CN	EU	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2
Yes	DSL	Yes	Yes	EIN	Yes	Yes	Yes	No

KR - REACH CCA	MX	NZ	PH	TH-TECI	TW, CN	VN (Draft)
No	Yes	Yes	Yes	Yes	Yes	Yes

## Section 16 - OTHER INFORMATION

### HMIS Rating

Health: 3 Fire: 0 Reactivity: 0

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

### NFPA Ratings

Health: 3 Fire: 0 Instability: 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; CA/MA/MN/NJ/PA - California/Massachusetts/Minnesota/New Jersey/Pennsylvania\*; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CFR - Code of Federal Regulations (US); CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG -



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Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EC – European Commission; EEC - European Economic Community; EIN - European Inventory of (Existing Commercial Chemical Substances); 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; F - Background (for Venezuela Biological Exposure Indices); 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; IUCLID - International Uniform Chemical Information Database; JP - Japan; Kow - Octanol/water partition coefficient; KR KECI Annex 1 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL); KR KECI Annex 2 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL) , KR - Korea; LD50/LC50 - Lethal Dose/ Lethal Concentration; KR REACH CCA - Korea Registration and Evaluation of Chemical Substances Chemical Control Act; 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; Ne- Non-specific; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; Nq - Non-quantitative; NSL – Non-Domestic Substance List (Canada); NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PEL- Permissible Exposure Limit; 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; Sc - Semi-quantitative; STEL - Short-term Exposure Limit; TCCA – Korea Toxic Chemicals Control Act; TDG - Transportation of Dangerous Goods; TH-TECI - Thailand - FDA Existing Chemicals Inventory (TECI); TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act; TW – Taiwan; TWA - Time Weighted Average; UEL - Upper Explosive Limit; UN/NA - United Nations /North American; US - United States; VLE - Exposure Limit Value (Mexico); VN (Draft) - Vietnam (Draft); WHMIS - Workplace Hazardous Materials Information System (Canada).

### **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..