Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name
E-Brite 30/30

Product Use
Copper Concentrate.

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 + 202 464 2554 (EPI-29003), +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.
Hazardous to the Aquatic Environment - Acute - Category 2
Hazardous to the Aquatic Environment - Chronic - Category 2

GHS Label Elements

Symbol(s)

Signal Word
None needed according to classification criteria

Hazard Statement(s)
Toxic to aquatic life with long lasting effects.

Precautionary Statement(s)
Prevention
Avoid release to the environment.

Response
Collect spillage.

**Storage**
None needed according to classification criteria.

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

**Other Hazards**
This product may cause irritation to the eyes. This product may cause irritation to the skin. This product may cause irritation to the respiratory system. Harmful if swallowed.

### Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CAS</th>
<th>Component Name</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>7732-18-5</td>
<td>Water</td>
<td>50-60</td>
</tr>
<tr>
<td>Trade Secret</td>
<td>Copper (+2) Complex</td>
<td>2-4</td>
</tr>
</tbody>
</table>

### Section 4 - FIRST AID MEASURES

**Description of Necessary Measures**
If the material is swallowed, get immediate medical attention or advice. Do NOT induce vomiting. Give several glasses of water to dilute contents of stomach and call a physician. Never give anything by mouth to a victim who is unconscious or is having convulsions.

**Inhalation**
Immediately move victim to fresh air. If symptoms persist, seek medical attention.

**Skin**
Wash skin with soap and water. If irritation persists get medical attention.

**Eyes**
Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists, get medical attention.

**Ingestion**
If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting. Give several glasses of water. Never give anything by mouth to a person who is unconscious or is having convulsions.

### Section 5 - FIRE FIGHTING MEASURES
Extinguishing Media
Suitable Extinguishing Media
Use methods suitable for the surrounding fire.
Unsuitable Extinguishing Media
None known.

Hazardous Combustion Products
Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Decomposition of this product may yield metallic oxides.

Fire Fighting Measures
Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures
Isolate area. Keep unnecessary personnel away.

Methods and Materials for Containment and Cleaning Up
Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps.

Environmental Precautions
Do not discharge into sewers or waterways.

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling
Wash thoroughly after handling. Do not reuse the empty container.

Conditions for Safe Storage, Including any Incompatibilities
None needed according to classification criteria. Keep container tightly closed and in a well ventilated place.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

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.

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**Section 9 - PHYSICAL AND CHEMICAL PROPERTIES**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
<td>Blue Solution</td>
</tr>
<tr>
<td><strong>Odor</strong></td>
<td>Mild-Musty</td>
</tr>
<tr>
<td><strong>Odor Threshold</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Melting Point</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Freezing point</strong></td>
<td>32 °F (0 °C)</td>
</tr>
<tr>
<td><strong>Boiling Point Range</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Autoignition</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Lower Explosive Limit</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Upper Explosive Limit</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Vapor Density</strong></td>
<td>(Approx. equal to water)</td>
</tr>
<tr>
<td><strong>Water Solubility</strong></td>
<td>Completely</td>
</tr>
<tr>
<td><strong>Viscosity</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Density</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Molecular Weight</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Physical State</strong></td>
<td>Liquid</td>
</tr>
<tr>
<td><strong>Color</strong></td>
<td>Blue</td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>7.8 - 8.95</td>
</tr>
<tr>
<td><strong>Boiling Point</strong></td>
<td>218 °F (103 °C)</td>
</tr>
<tr>
<td><strong>Evaporation Rate</strong></td>
<td>(Approx. equal to Water)</td>
</tr>
<tr>
<td><strong>Partition coefficient: n-octanol/water</strong></td>
<td>1.25 - 1.31</td>
</tr>
<tr>
<td><strong>Partition coefficient: solubility (Other)</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>VOC</strong></td>
<td>0</td>
</tr>
</tbody>
</table>

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**Section 10 - STABILITY AND REACTIVITY**

**Reactivity**
Will not occur.

**Chemical Stability**
This is a stable material.

**Possibility of Hazardous Reactions**
Hazardous polymerization will not occur.

**Conditions to Avoid**
This product may react with strong acids or oxidizing agents.

**Incompatible Materials**
This product may react with strong acids. This product may react with oxidizing agents.

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

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

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**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
- Copper (+2) Complex (Trade Secret)
- Oral LD50  Rat  960 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.

Aspiration hazard
No data available.

Medical Conditions Aggravated by Exposure
No data available.

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**Section 12 - ECOLOGICAL INFORMATION**

**Component Analysis - Aquatic Toxicity**

<table>
<thead>
<tr>
<th>Copper (+2) Complex</th>
<th>Trade Secret</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fish:</strong></td>
<td></td>
</tr>
<tr>
<td>LC50 96 h Lepomis macrochirus 0.66 - 1.15 mg/L [semi-static ]; LC50 96 h Lepomis macrochirus 0.96 - 1.8 mg/L [static ]; LC50 96 h Oncorhynchus mykiss 0.1478 - 0.165 mg/L [flow-through ]; LC50 96 h Oncorhynchus mykiss 0.09 - 0.19 mg/L [static ]; LC50 96 h Pimephales promelas 0.6752 mg/L [static ]</td>
<td></td>
</tr>
<tr>
<td><strong>Invertebrate:</strong></td>
<td></td>
</tr>
<tr>
<td>EC50 48 h Daphnia magna 0.147 - 0.227 mg/L [Static ] EPA</td>
<td></td>
</tr>
</tbody>
</table>

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**Section 13 - DISPOSAL CONSIDERATIONS**

**Disposal Methods**
Waste must be handled in accordance with all federal, state, provincial, and local regulations.

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**Section 14 - TRANSPORT INFORMATION**

**US DOT Information:**
No Classification assigned.

**TDG Information:**
No Classification assigned.
Section 15 - REGULATORY INFORMATION

U.S. Federal Regulations
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.

U.S. State Regulations
None of this product’s components are listed on the state lists from CA, MA, MN, NJ or PA

Not listed under California Proposition 65

Canada Regulations
This material is a controlled product under Canadian WHMIS regulations.

Component Analysis - Inventory
Water (7732-18-5)

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<thead>
<tr>
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</thead>
<tbody>
<tr>
<td></td>
<td>Yes</td>
<td>DSL</td>
<td>EIN</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Copper (+2) Complex (Trade Secret)

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</thead>
<tbody>
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<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
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<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

Section 16 - OTHER INFORMATION

HMIS Rating
Health: 1 Fire: 0 Reactivity: 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

NFPA Ratings
Health: 1 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
Other Information

Disclaimer:
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