



## Safety Data Sheet

Material Name: E-Brite 50/51

SDS ID: EPI-0024c

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### Section 1 - PRODUCT AND COMPANY IDENTIFICATION

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**Material Name**

E-Brite 50/51

**Product Use**

Silver. Plating Additive.

**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.**

None needed according to classification criteria

**GHS Label Elements**

**Symbol(s)**

None needed according to classification criteria

**Signal Word**

None needed according to classification criteria

**Hazard Statement(s)**

None needed according to classification criteria.

**Precautionary Statement(s)**

**Prevention**

None needed according to classification criteria.

**Response**

None needed according to classification criteria.

**Storage**

None needed according to classification criteria.

May cause mild eye or skin irritation.

**Disposal**



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

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### Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

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CAS	Component Name	Percent
7732-18-5	Water	90-95

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### Section 4 - FIRST AID MEASURES

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#### Inhalation

If inhaled, immediately remove the affected person to fresh air.

#### Skin

Wash skin with soap and water.

#### Eyes

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

#### Ingestion

If swallowed, give milk or water to dilute. Seek medical attention immediately. Never give anything by mouth to an unconscious person. Call a physician immediately.

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### Section 5 - FIRE FIGHTING MEASURES

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#### Extinguishing Media

##### Suitable Extinguishing Media

Dry chemical, foam, carbon dioxide, water fog.

##### Unsuitable Extinguishing Media

None identified.

#### Special Hazards Arising from the Chemical

None identified.

#### Hazardous Combustion Products

None identified.

#### Advice for firefighters

None identified.

#### Fire Fighting Measures

Use methods suitable to fight surrounding fire.



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### Section 6 - ACCIDENTAL RELEASE MEASURES

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#### **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.

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### Section 7 - HANDLING AND STORAGE

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

None needed according to classification criteria.

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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**

Local exhaust is suggested for use, where possible, in enclosed or confined spaces.

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

##### **Eye/face protection**

Safety glasses. It is generally recognized 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.

##### **Respiratory Protection**

Not normally needed.

##### **Glove Recommendations**

Wear rubber gloves.



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### Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Clear solution	<b>Physical State</b>	Liquid
<b>Odor</b>	Odorless	<b>Color</b>	Clear
<b>Odor Threshold</b>	Not available	<b>pH</b>	4.5 - 8.5
<b>Melting Point</b>	Not available	<b>Boiling Point</b>	212 °F
<b>Boiling Point Range</b>	Not available	<b>Freezing point</b>	32 °F (0 °C)
<b>Evaporation Rate</b>	(Approx. equal to Water)	<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>	(Approx. equal to water)	<b>Specific Gravity (water=1)</b>	0.972 - 1.075
<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

No known hazardous reactions.

#### Chemical Stability

This is a stable material.



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### Possibility of Hazardous Reactions

None identified. Hazardous polymerization will not occur.

### Conditions to Avoid

None identified.

### Incompatible Materials

None identified.

### Hazardous decomposition products

None identified.

### Thermal decomposition products

None identified.

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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:

Water (7732-18-5)

Oral LD50 Rat >90 mL/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.



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### 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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### Component Analysis - Aquatic Toxicity

No LOLI ecotoxicity data are available for this product's components

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## Section 13 - DISPOSAL CONSIDERATIONS

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### 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

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## Section 14 - TRANSPORT INFORMATION

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### US DOT Information:

No Classification assigned.

### TDG Information:

No Classification assigned.

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## Section 15 - REGULATORY INFORMATION

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### 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.

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.



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### 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 product is not WHMIS controlled.

### Component Analysis - Inventory

Water (7732-18-5)

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

## Section 16 - OTHER INFORMATION

### HMIS Rating

Health: 0 Fire: 0 Reactivity: 0

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

### 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



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Substances Control Act; TW – Taiwan; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States.

### **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..