



## Safety Data Sheet

Material Name: E-Brite C-135

SDS ID: EPI-0427c

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### Section 1 - PRODUCT AND COMPANY IDENTIFICATION

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**Material Name**

E-Brite C-135

**Product Use**

Plating Additive.

**Manufacturer Information**

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.**

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**



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None needed according to classification criteria

May cause mild eye or skin irritation.

### Disposal

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

### Other Hazards

Contains nickel constituents. small. quantities. Contact dermatitis in workers exposed to nickel compounds is one of the most prevalent effects of nickel exposure.

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## Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

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CAS	Component Name	Percent
7732-18-5	Water	95-97
Trade Secret	Nickel Salt	0.008-0.012

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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.



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### Special Hazards Arising from the Chemical

None identified.

### Hazardous Combustion Products

None identified.

### Special Protective Equipment and Precautions 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

Nickel Salt	Trade Secret
ACGIH:	1.5 mg/m <sup>3</sup> TWA inhalable fraction
NIOSH:	0.015 mg/m <sup>3</sup> TWA
	10 mg/m <sup>3</sup> IDLH
OSHA (US):	1 mg/m <sup>3</sup> TWA
Mexico:	1 mg/m <sup>3</sup> TWA LMPE-PPT

### Biological limit value



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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.

## Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Clear solution	<b>Physical State</b>	Liquid
<b>Odor</b>	Odorless	<b>Color</b>	Blue/Green
<b>Odor Threshold</b>	Not available	<b>pH</b>	9 - 9.75
<b>Melting Point</b>	Not available	<b>Boiling Point</b>	212 °F
<b>Freezing point</b>	32 °F (0 °C)	<b>Evaporation Rate</b>	(Approx. equal to Water)
<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>	(Approx. equal to water)	<b>Specific Gravity (water=1)</b>	1.004 - 1.028
<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

No known hazardous reactions.

#### Chemical Stability

This is a stable material.

#### 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 LD50Rat >90 mL/kg

Nickel Salt (Trade Secret)

Oral LD50Rat >9000 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



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No data available.

### Dermal Sensitization

No data available.

### Component Carcinogenicity

Nickel Salt	Trade Secret
ACGIH:	A5 - Not Suspected as a Human Carcinogen
IARC:	Monograph 49 [1990]; Supplement 7 [1987](Group 2B (possibly carcinogenic to humans))
NTP:	Reasonably Anticipated To Be A Human Carcinogen
DFG:	Category 1 (causes cancer in man)
OSHA:	Present

### Germ Cell Mutagenicity

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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### Component Analysis - Aquatic Toxicity

Nickel Salt	Trade Secret
Fish:	LC50 96 h Brachydanio rerio >100 mg/L; LC50 96 h Cyprinus carpio 1.3 mg/L [semi-static]; LC50 96 h Cyprinus carpio 10.4 mg/L [static]
Algae:	EC50 72 h Pseudokirchneriella subcapitata 0.18 mg/L IUCLID; EC50 96 h Pseudokirchneriella subcapitata 0.174 - 0.311 mg/L [static] EPA



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Invertebrate:	EC50 48 h Daphnia magna >100 mg/L IUCLID; EC50 48 h Daphnia magna 1 mg/L [static] EPA
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### Section 13 - DISPOSAL CONSIDERATIONS

#### Disposal Methods

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

### Section 14 - TRANSPORT INFORMATION

#### US DOT Information:

No Classification assigned.

#### TDG Information:

No Classification assigned.

### Section 15 - REGULATORY INFORMATION

#### 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.

Nickel Salt	Trade Secret
SARA 313:	0.1 % de minimis concentration
CERCLA:	100 lbfinal RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm); 45.4 kgfinal RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm)

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)

**Acute Health:** no **Chronic Health:** no **Fire:** no **Pressure:** no **Reactivity:** no

#### U.S. State Regulations

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



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Component	CAS	CA	MA	MN	NJ	PA
Nickel Salt	Trade Secret	Yes	Yes	Yes	Yes	Yes

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause cancer

Nickel Salt	Trade Secret
Carc:	carcinogen , 10/1/1989 (metallic)

### Canada Regulations

This material is not 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

Nickel Salt	Trade Secret
	0.1 %

### 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

Nickel Salt (Trade Secret)

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

### NFPA Ratings





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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.