



## Safety Data Sheet

Material Name: E-LAQ 525 B

SDS ID: EPI-0669c

### Section 1 - PRODUCT AND COMPANY IDENTIFICATION

**Material Name**

E-LAQ 525 B

**Product Use**

water based. Acrylic.

**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.**

Acute Toxicity - Dermal - Category 3

Specific Target Organ Toxicity - Single Exposure - Category 1 ( Hematopoietic System , kidneys , liver , respiratory system )

Specific Target Organ Toxicity - Single Exposure - Category 2

Specific Target Organ Toxicity - Repeated Exposure - Category 1 ( Hematopoietic System , respiratory system , liver )

Specific Target Organ Toxicity - Repeated Exposure - Category 2

**GHS Label Elements**

**Symbol(s)**



**Signal Word**

Danger

**Hazard Statement(s)**

Toxic in contact with skin.

Causes damage to organs.

May cause damage to organs.

Causes damage to organs through prolonged or repeated exposure.

May cause damage to organs through prolonged or repeated exposure.

**Precautionary Statement(s)**

**Prevention**



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Wear protective gloves/protective clothing/eye protection/face protection.  
Do not breathe dust/fume/gas/mist/vapors/spray.  
Wash thoroughly after handling.  
Do not eat, drink or smoke when using this product.

### Response

If exposed: Call a POISON CENTER or doctor/physician.  
If exposed or concerned: Call a POISON CENTER or doctor/physician.  
IF ON SKIN: Wash with plenty of soap and water.  
Take off immediately all contaminated clothing and wash it before reuse.  
Call a POISON CENTER or doctor if you feel unwell.  
Specific treatment (see label).

### Storage

Store locked up.

### Disposal

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

### Other Hazards

Vapors may be irritating and cause eye discomfort and direct eye contact irritation could be severe. May be harmful in contact with skin. May be harmful if swallowed or if inhaled.

## Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent
7732-18-5	Water	50-55
111-76-2	2-Butoxyethanol	5-10
112-34-5	Diethylene glycol monobutyl ether	2-5
Trade Secret	Acrylic Copolymer	25-30
1333-86-4	Carbon black	1.1-1.3

## Section 4 - FIRST AID MEASURES

### Inhalation

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

### Skin

IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

### 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.

## 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

Carbon monoxide and carbon dioxides.

### Advice for firefighters

None identified.

### Fire Fighting Measures

Use methods suitable to fight surrounding fire.

## 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

Contain the spill. Mop up or squeegee into container or absorb with inert material.

### Environmental Precautions

Do not allow to enter sewers or waterways.

## Section 7 - HANDLING AND STORAGE

### Precautions for Safe Handling

Wash thoroughly after handling. Containers, even those that have been emptied, will retain product residue and vapors. Always obey hazard warnings on containers as if they were full.

### Conditions for Safe Storage, Including any Incompatibilities

Store locked up.

Keep containers closed when not in use. Store in a cool, dry, well-ventilated area away from incompatible materials (see Section 10).

## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

### Component Exposure Limits

<b>2-Butoxyethanol</b>	<b>111-76-2</b>
ACGIH:	20 ppm TWA
NIOSH:	5 ppm TWA ; 24 mg/m <sup>3</sup> TWA
	SK: SYS-DIR(IRR) (Apr 2011 )
	700 ppm IDLH
Europe:	20 ppm TWA ; 98 mg/m <sup>3</sup> TWA



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	Possibility of significant uptake through the skin
	50 ppm STEL ; 246 mg/m <sup>3</sup> STEL
OSHA (US):	50 ppm TWA ; 240 mg/m <sup>3</sup> TWA
	prevent or reduce skin absorption
Mexico:	20 ppm TWA [VLE-PPT ]
	Skin - potential for cutaneous absorption
<b>Diethylene glycol monobutyl ether</b>	<b>112-34-5</b>
ACGIH:	10 ppm TWA inhalable fraction and vapor
Europe:	10 ppm TWA ; 67.5 mg/m <sup>3</sup> TWA
	15 ppm STEL ; 101.2 mg/m <sup>3</sup> STEL
<b>Carbon black</b>	<b>1333-86-4</b>
ACGIH:	3 mg/m <sup>3</sup> TWA inhalable particulate matter
NIOSH:	3.5 mg/m <sup>3</sup> TWA ; 0.1 mg/m <sup>3</sup> TWA (Carbon black in presence of Polycyclic aromatic hydrocarbons ) as PAH
	1750 mg/m <sup>3</sup> IDLH
OSHA (US):	3.5 mg/m <sup>3</sup> TWA
Mexico:	3 mg/m <sup>3</sup> TWA [VLE-PPT ] inhalable fraction

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

**2-Butoxyethanol (111-76-2)**

200 mg/g creatinine Medium: urine Time: end of shift Parameter: Butoxyacetic acid with hydrolysis

**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**

Provide general ventilation needed to maintain concentration of vapor or mist below applicable exposure limits.

Where adequate general ventilation is unavailable, use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below applicable exposure limits.



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### Glove Recommendations

Wear rubber gloves.

### Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Dark gray.	<b>Physical State</b>	Liquid
<b>Odor</b>	Acrylic.	<b>Color</b>	Milky white.
<b>Odor Threshold</b>	Not available	<b>pH</b>	Not applicable
<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>	1.02 - 1.04
<b>Water Solubility</b>	Completely	<b>Partition coefficient: n-octanol/water</b>	Not available
<b>Viscosity</b>	Not available	<b>Kinematic viscosity</b>	Not available
<b>Solubility (Other)</b>	Not available	<b>Density</b>	Not available
<b>VOC</b>	0.92#/gallon	<b>Molecular Weight</b>	Not available

### Section 10 - STABILITY AND REACTIVITY

#### 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



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Strong oxidizing agents, acids.

**Hazardous decomposition products**

None identified. Carbon monoxide and carbon dioxides.

**Thermal decomposition products**

None identified.

### 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

**2-Butoxyethanol (111-76-2)**

Oral LD50 Rat 470 mg/kg

Dermal LD50 Rabbit 435 mg/kg

Inhalation LC50 Rat 450 ppm 4 h (females )

**Diethylene glycol monobutyl ether (112-34-5)**

Oral LD50 Rat 5660 mg/kg

Dermal LD50 Rabbit 2700 mg/kg

**Carbon black (1333-86-4)**

Oral LD50 Rat >15400 mg/kg

**Product Toxicity Data**

**Acute Toxicity Estimate**

No data available.

**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**

<b>2-Butoxyethanol</b>	<b>111-76-2</b>
ACGIH:	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans
IARC:	Monograph 88 [2006] (Group 3 (not classifiable))
<b>Carbon black</b>	<b>1333-86-4</b>
ACGIH:	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans



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IARC:	Monograph 93 [2010] ; Monograph 65 [1996] (Group 2B (possibly carcinogenic to humans))
DFG:	Category 3B (could be carcinogenic for man ;inhalable fraction )
OSHA:	Present
NIOSH:	potential occupational carcinogen

### 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.

## Section 12 - ECOLOGICAL INFORMATION

### Component Analysis - Aquatic Toxicity

<b>2-Butoxyethanol</b>	<b>111-76-2</b>
Fish:	LC50 96 h Lepomis macrochirus 1490 mg/L [static ] ; LC50 96 h Lepomis macrochirus 2950 mg/L
Invertebrate:	EC50 48 h Daphnia magna >1000 mg/L EPA
<b>Diethylene glycol monobutyl ether</b>	<b>112-34-5</b>
Fish:	LC50 96 h Lepomis macrochirus 1300 mg/L [static ]
Algae:	EC50 96 h Desmodesmus subspicatus >100 mg/L IUCLID
Invertebrate:	EC50 48 h Daphnia magna >100 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



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The U.S. EPA has not published waste numbers for this product's components.

### Section 14 - TRANSPORT INFORMATION

#### US DOT Information:

No Classification assigned.

#### 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

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

Acute toxicity; Specific Target Organ Toxicity

#### 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
2-Butoxyethanol	111-76-2	Yes	Yes	Yes	Yes	Yes
Carbon black	1333-86-4	Yes	Yes	Yes	Yes	Yes

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



#### WARNING

This product can expose you to chemicals including Carbon black , which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Carbon black	1333-86-4
Carc:	carcinogen , 2/21/2003 (airborne, unbound particles of respirable size )

#### 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





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<b>2-Butoxyethanol</b>	<b>111-76-2</b>
	1 %
<b>Diethylene glycol monobutyl ether</b>	<b>112-34-5</b>
	1 %
<b>Carbon black</b>	<b>1333-86-4</b>
	1 %

### 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	No	No	Yes	No

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

#### 2-Butoxyethanol (111-76-2)

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	VN (Draft)
No	Yes	Yes	Yes	Yes	Yes	Yes

#### Diethylene glycol monobutyl ether (112-34-5)

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	VN (Draft)
No	Yes	Yes	Yes	Yes	Yes	Yes

#### Acrylic Copolymer (Trade Secret)



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

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

### Carbon black (1333-86-4)

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	VN (Draft)
No	Yes	Yes	Yes	Yes	Yes	Yes

### 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 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 - 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; LEL - Lower



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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; 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..