



## Safety Data Sheet

Material Name: Insta Blak A 380

SDS ID: EPI-0186

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### Section 1 - PRODUCT AND COMPANY IDENTIFICATION

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**Material Name**

Insta Blak A 380

**Product Use**

Blackening Solution.

**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.**

Skin Corrosion/Irritation - Category 1

Serious Eye Damage/Eye Irritation - Category 1

Hazardous to the Aquatic Environment - Acute - Category 3

Hazardous to the Aquatic Environment - Chronic - Category 3

**GHS Label Elements**

**Symbol(s)**



**Signal Word**

Danger

**Hazard Statement(s)**

Causes severe skin burns and eye damage

Harmful to aquatic life with long lasting effects

**Precautionary Statement(s)**



## Safety Data Sheet

Material Name: Insta Blak A 380

SDS ID: EPI-0186

### Prevention

Wear protective gloves/protective clothing/eye protection/face protection  
Wash thoroughly after handling  
Avoid release to the environment  
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)

### Storage

Store locked up

### Disposal

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

### Other Hazards

This product may produce corrosive damage to the gastrointestinal tract if it is swallowed. If swallowed can cause complete tissue perforation of mucous membranes of the mouth, throat, esophagus and stomach.

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## Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

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CAS	Component Name	Percent
7732-18-5	Water	50-70
1310-73-2	Sodium hydroxide	30-40
1314-13-2	Zinc oxide	3-7
Trade Secret	Trade Secret	0-2

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## Section 4 - FIRST AID MEASURES

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### Inhalation



## Safety Data Sheet

Material Name: Insta Blak A 380

SDS ID: EPI-0186

If inhaled, immediately remove the affected person to fresh air. If breathing is irregular or stopped, administer artificial respiration.

### **Skin**

For skin contact flush with large amounts of water while removing contaminated clothing.

### **Eyes**

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

### **Ingestion**

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to a victim who is unconscious or is having convulsions.

### **Most Important Symptoms/Effects**

#### **Acute**

Breathing dust, mist or spray of this product may cause damage to the upper respiratory tract and lung tissue which can cause chemical pneumonia, depending on the severity of exposure.

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## Section 5 - FIRE FIGHTING MEASURES

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### **Extinguishing Media**

#### **Suitable Extinguishing Media**

Water spray, dry chemical, carbon dioxide.

#### **Unsuitable Extinguishing Media**

None known.

### **Hazardous Combustion Products**

None known.

### **Fire Fighting Measures**

Firefighters should wear full protective clothing including self contained breathing apparatus.

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## Section 6 - ACCIDENTAL RELEASE MEASURES

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### **Personal Precautions, Protective Equipment and Emergency Procedures**

Isolate area. Keep unnecessary personnel away. Wear appropriate protective equipment during cleanup.

### **Methods and Materials for Containment and Cleaning Up**

Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps. Block any potential routes to water systems. Neutralize with dilute acid. Flush spill area with water followed by liberal coverage of sodium bicarbonate. Incinerate spent absorbent material in an approved incinerator.

### **Environmental Precautions**



## Safety Data Sheet

Material Name: Insta Blak A 380

SDS ID: EPI-0186

Do not allow to enter sewers or waterways.

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### Section 7 - HANDLING AND STORAGE

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#### Precautions for Safe Handling

Wash thoroughly after handling.

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

Store locked up

Keep container tightly closed.

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### Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

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#### Component Exposure Limits

Sodium Hydroxide	1310-73-2
ACGIH:	2 mg/m <sup>3</sup> Ceiling
NIOSH:	2 mg/m <sup>3</sup> Ceiling
	10 mg/m <sup>3</sup> IDLH
OSHA (US):	2 mg/m <sup>3</sup> TWA
Mexico:	2 mg/m <sup>3</sup> Ceiling
Zinc oxide	1314-13-2
ACGIH:	2 mg/m <sup>3</sup> TWA respirable fraction
	10 mg/m <sup>3</sup> STEL respirable fraction
NIOSH:	5 mg/m <sup>3</sup> TWA dust and fume
	10 mg/m <sup>3</sup> STEL fume
	15 mg/m <sup>3</sup> Ceiling dust
	500 mg/m <sup>3</sup> IDLH
OSHA (US):	5 mg/m <sup>3</sup> TWA fume; 15 mg/m <sup>3</sup> TWA total dust; 5 mg/m <sup>3</sup> TWA respirable fraction
Mexico:	5 mg/m <sup>3</sup> TWA LMPE-PPT fume; 10 mg/m <sup>3</sup> TWA LMPE-PPT dust



## Safety Data Sheet

Material Name: Insta Blak A 380

SDS ID: EPI-0186

	10 mg/m <sup>3</sup> STEL [LMPE-CT] fume
Trade Secret	Trade Secret
ACGIH:	0.5 mg/m <sup>3</sup> TWA as Sb (related to Antimony compounds)
NIOSH:	0.5 mg/m <sup>3</sup> TWA as Sb (related to Antimony compounds)
	50 mg/m <sup>3</sup> IDLH as Sb (related to Antimony compounds)
OSHA (US):	0.5 mg/m <sup>3</sup> TWA as Sb (related to Antimony compounds)
Mexico:	0.5 mg/m <sup>3</sup> TWA LMPE-PPT as Sb (related to Antimony compounds)

### Biological limit value

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

### Engineering Controls

Use general ventilation and use local exhaust, where possible, in confined or enclosed spaces.

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

#### Eye/face protection

Wear safety glasses with side shields or chemical goggles.

#### Skin Protection

Use of protective coveralls and long sleeves is recommended.

#### Respiratory Protection

If ventilation is not sufficient to effectively prevent buildup of vapors, wear appropriate respiratory protection.

#### Glove Recommendations

Wear impervious gloves.

#### Protective Materials

Eye wash fountain and emergency showers are recommended. Use good industrial hygiene practices in handling this material.

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## Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

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<b>Appearance</b>	Slightly Amber viscous solution	<b>Physical State</b>	Liquid
<b>Odor</b>	Odorless	<b>Color</b>	Slightly Amber, viscous solution
<b>Odor Threshold</b>	Not available	<b>pH</b>	11.5 - 13.5
<b>Melting Point</b>	Not available	<b>Boiling Point</b>	>240 °F (115 °C)



## Safety Data Sheet

Material Name: Insta Blak A 380

SDS ID: EPI-0186

<b>Freezing point</b>	45 - 50 °F (7.22-10 °C)	<b>Evaporation Rate</b>	Not available
<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>	Not available	<b>Specific Gravity (water=1)</b>	1.4 - 1.6
<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

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### Section 10 - STABILITY AND REACTIVITY

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#### Reactivity

Contact with some metals, particularly magnesium, aluminum, zinc (galvanized) can rapidly generate hydrogen which can be explosive.

#### Chemical Stability

Stable under normal conditions.

#### Possibility of Hazardous Reactions

Will not occur.

#### Conditions to Avoid

Avoid contact with acids.

#### Incompatible Materials

This product may react with strong acids.

#### Hazardous decomposition products

#### 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

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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

Sodium Hydroxide (1310-73-2)

Dermal LD50 Rabbit 1350 mg/kg

Zinc oxide (1314-13-2)

Oral LD50 Rat >5000 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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Material Name: Insta Blak A 380

SDS ID: EPI-0186

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### Section 12 - ECOLOGICAL INFORMATION

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#### Component Analysis - Aquatic Toxicity

Sodium Hydroxide	1310-73-2
Fish:	LC50 96 h Oncorhynchus mykiss 45.4 mg/L [static]

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### Section 13 - DISPOSAL CONSIDERATIONS

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#### Disposal Methods

Dispose of waste material in accordance with all applicable Federal, State or provincial and local environmental regulations. See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

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### Section 14 - TRANSPORT INFORMATION

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#### US DOT Information:

**Shipping Name:** Sodium hydroxide, solution

**Hazard Class:** 8

**UN/NA #:** UN1824

**Packing Group:** II

**Required Label(s):** Corrosive

#### TDG Information:

**Shipping Name:** Sodium hydroxide, solution

**Hazard Class:** 8

**UN#:** UN1824

**Packing Group:** II

**Required Label(s):** Corrosive

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### Section 15 - REGULATORY INFORMATION

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#### 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.





## Safety Data Sheet

**Material Name: Insta Blak A 380**

**SDS ID: EPI-0186**

Sodium Hydroxide	1310-73-2
CERCLA:	1000 lb final RQ; 454 kg final RQ
Trade Secret	Trade Secret
SARA 313:	1 % de minimis concentration (related to Antimony compounds)

### 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
Sodium Hydroxide	1310-73-2	Yes	Yes	Yes	Yes	Yes
Zinc oxide	1314-13-2	Yes	Yes	Yes	Yes	Yes
Trade Secret	Trade Secret	Yes	No	Yes	Yes	Yes

### Not listed under California Proposition 65

### 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

Sodium Hydroxide	1310-73-2
	1 %
Zinc oxide	1314-13-2
	1 %
Trade Secret	Trade Secret
	1 % (related to Antimony compounds)

### 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

Sodium Hydroxide (1310-73-2)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX



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Material Name: Insta Blak A 380

SDS ID: EPI-0186

Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes
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Zinc oxide (1314-13-2)

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

Trade Secret (Trade Secret)

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

## Section 16 - OTHER INFORMATION

### HMIS Rating

Health: 2 Fire: 0 Reactivity: 0

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

### NFPA Ratings

Health: 2 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 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



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**Material Name: Insta Blak A 380**

**SDS ID: EPI-0186**

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 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..