

Material Name: Insta Blak SS-370 GEL

ID: EPI-0153

\* \* \* Section 1 - Chemical Product and Company Identification \* \* \*

Product Use: Blackening Gel

Manufacturer Information

Electrochemical Products Inc.

Phone: 262-786-9330

17000 West Lincoln Ave

Fax: 262-786-9403

New Berlin, WI 53151

Emergency # Chemtrec #800-424-9300

Mfg Contact: www.epi.com

\* \* \* Section 2 - Hazards Identification \* \* \*

### **Emergency Overview**

CAUTION This product may cause irritation to the eyes. This product may cause irritation to the skin. Ingestion will result in metallic taste, garlic odor to breath, nausea.

Potential Health Effects: Eyes

It is an eye irritant, causing redness and watering.

Potential Health Effects: Skin

It is not a primary skin irritant. However, it can produce redness of skin and slight edema on prolonged contact.

Potential Health Effects: Ingestion

Ingestion will result in metallic taste, garlic odor to breath, nausea.

Potential Health Effects: Inhalation

Breathing mists can cause nose and throat irritation. Garlic odor to breath, headaches, dizziness, difficulty

breathing.

HMIS Ratings: Health: 2 Fire: 0 Physical Hazard: 0 Pers. Prot.: C (Gloves, Safety Glasses, Apron)

\* \* \* Section 3 - Composition / Information on Ingredients \* \* \*

Material Name: Insta Blak SS-370 GEL

ID: EPI-0153

Component	Percent
Water	75-85
Hydrogen chloride	15-20
Selenous acid	1-4
Copper	0-3
	Water  Hydrogen chloride  Selenous acid

### Component Related Regulatory Information

This product may be regulated, have exposure limits or other information identified as the following: Selenium compounds, Selenium inorganic compounds.

# Component Information/Information on Non-Hazardous Components

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication). This is a controlled product under the Canadian WHMIS regulations.

# \* \* \* Section 4 - First Aid Measures \* \* \*

### First Aid: Eyes

In case of contact, immediately flush eyes with large amounts of water, continuing to flush for 30 minutes. Get medical attention or advice.

#### First Aid: Skin

Immediately flush skin with lots of water for 30 minutes. Remove contaminated clothing and shoes. Wash before reuse. Get immediate medical attention.

# First Aid: Ingestion

Give several glasses of water. 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. Call a physician immediately.

### First Aid: Inhalation

If inhaled, immediately remove the affected person to fresh air. Give artificial respiration if not breathing. Seek medical attention.

# \* \* \* Section 5 - Fire Fighting Measures \* \* \*

#### **Hazardous Combustion Products**

May produce toxic selenous fumes.

Material Name: Insta Blak SS-370 GEL

ID: EPI-0153

### **Extinguishing Media**

Dry chemical, foam, carbon dioxide, water fog.

#### Fire Fighting Equipment/Instructions

Firefighters should wear full-face, self contained breathing apparatus and impervious protective clothing. Firefighters should avoid inhaling any combustion products.

# \* \* \* Section 6 - Accidental Release Measures \* \* \*

#### **Containment Procedures**

Wear appropriate protective equipment and clothing during clean-up. Stop source of leak if possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps. Scoop up used absorbent into drums or other appropriate container. Block any potential routes to water systems.

#### Clean-Up Procedures

Dispose of spent absorbent in an approved industrial waste landfill.

#### **Evacuation Procedures**

Isolate area. Keep unnecessary personnel away.

#### Special Procedures

No additional information available.

# \* \* \* Section 7 - Handling and Storage \* \* \*

### **Handling Procedures**

Wash thoroughly after handling. Keep container closed.

### Storage Procedures

Keep the container tightly closed and in a cool, well-ventilated place.

Material Name: Insta Blak SS-370 GEL

ID: EPI-0153

# \* \* \* Section 8 - Exposure Controls / Personal Protection \* \* \*

### A: Component Exposure Limits

### Hydrogen chloride (7647-01-0)

ACGIH: 2 ppm Ceiling

OSHA: 5 ppm Ceiling; 7 mg/m3 Ceiling

NIOSH: 5 ppm Ceiling; 7 mg/m3 Ceiling

# Selenous acid (7783-00-8)

ACGIH: 0.2 mg/m3 TWA (as Se) (related to Selenium compounds)

OSHA: 0.2 mg/m3 TWA (as Se) (related to Selenium compounds)

NIOSH: 0.2 mg/m3 TWA (except Selenium hexafluoride, as Se) (related to Selenium compounds)

#### **Engineering Controls**

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

#### PERSONAL PROTECTIVE EQUIPMENT

### Personal Protective Equipment: Eyes/Face

Wear safety glasses with side shields.

#### Personal Protective Equipment: Skin

Use impervious gloves. Use of protective coveralls and long sleeves is recommended. Use of an impervious apron is recommended.

### Personal Protective Equipment: Respiratory

If ventilation is not sufficient to effectively prevent buildup of vapor/mist/fume/dust, appropriate NIOSH/MSHA respiratory protection must be provided.

#### Personal Protective Equipment: General

Eye wash fountain and emergency showers are recommended.

\* \* \* Section 9 - Physical & Chemical Properties \* \* \*

Material Name: Insta Blak SS-370 GEL

Appearance: Blue/Green to Light Grey Gel

Odor: Odorless

Physical State: Gel

pH: 0-1

Vapor Pressure: Not Available

Vapor Density: Approx. equal to water

ID: EPI-0153

Boiling Point: 228°F (109°C)

**Melting Point:** 

None

Solubility (H2O): Completely

Specific Gravity:

1.015-1.017

Freezing Point: 32°F

Evaporation Rate:

Approx. equal to Water

VOC: 0

Octanol/H2O Coeff.:

Flash Point: None

Flash Point Method:

None

Upper Flammability Limit None

(UFL):

Lower Flammability Limit

(LFL):

Burning Rate: None

Auto Ignition: None

\* \* \* Section 10 - Chemical Stability & Reactivity Information \* \* \*

#### **Chemical Stability**

This is a stable material.

#### Chemical Stability: Conditions to Avoid

Avoid contact with extreme heat.

### Incompatibility

Page 5 of 11

This product may react with strong acids. This product may react with strong reducing agents. Organic compounds and cyanides.

#### **Hazardous Decomposition**

May produce volatile organoselenides or hydrogen selenide.

# Possibility of Hazardous Reactions

Will not occur.

Print Date: 3/23/2011 Issue Date: 03/18/11 Revision: 1.0000

Material Name: Insta Blak SS-370 GEL

ID: EPI-0153

# \* \* \* Section 11 - Toxicological Information \* \* \*

#### **Acute Dose Effects**

#### A: General Product Information

Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath headache, nausea, and vomiting. It causes conjunctivitis leading eventually to an allergic type of reaction of the eyes. Acute selenium poisoning produces central nervous system effects, which include nervousness, convulsions, and drowsiness. Other signs of gastrointestinal distress, teeth that are discolored or decayed, odorous (garlic-like) breath, and partial loss of hair and nails. Chronic exposure by inhalation can produce symptoms that include pallor, coating of the tongue, anemia, irritation of the mucosa, lumbar pain, liver and spleen damage, as well as any of the other previously mentioned symptoms.

### B: Component Analysis - LD50/LC50

Water (7732-18-5)

Oral LD50 Rat >90 mL/kg

#### Hydrogen chloride (7647-01-0)

Inhalation LC50 Rat 3124 ppm 1 h; Oral LD50 Rat 700 mg/kg; Dermal LD50 Rabbit >5010 mg/kg

#### Copper (7758-99-8)

Oral LD50 Rat 300 mg/kg; Dermal LD50 Rat >2 g/kg

# Carcinogenicity

#### A: General Product Information

None identified.

# **B:** Component Carcinogenicity

# Hydrogen chloride (7647-01-0)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

IARC: Monograph 54 [1992] (Group 3 (not classifiable))

Material Name: Insta Blak SS-370 GEL

ID: EPI-0153

Selenous acid (7783-00-8)

IARC: Supplement 7 [1987]; Monograph 9 [1975] (related to Selenium compounds) (Group 3 (not

classifiable))

# \* \* \* Section 12 - Ecological Information \* \* \*

**Ecotoxicity** 

### Component Analysis - Ecotoxicity - Aquatic Toxicity

Hydrogen chloride (7647-01-0)

**Test & Species** 

Conditions

96 Hr LC50 Gambusia affinis

282 mg/L [static]

### Copper (7758-99-8)

**Test & Species** 

Conditions

96 Hr LC50 Lepomis macrochirus

0.66-1.15 mg/L

[semi-static]

96 Hr LC50 Lepomis macrochirus

0.96-1.8 mg/L

[static]

96 Hr LC50 Oncorhynchus mykiss

0.1478-0.165 mg/L

[flow-through]

96 Hr LC50 Oncorhynchus mykiss

0.09-0.19 mg/L

[static]

96 Hr LC50 Pimephales promelas

0.6752 mg/L [static]

48 Hr EC50 Daphnia magna

0.147 - 0.227 mg/L

[Static]

Material Name: Insta Blak SS-370 GEL

ID: EPI-0153

# \* \* \* Section 13 - Disposal Considerations \* \* \*

### **US EPA Waste Number & Descriptions**

### A: General Product Information

Waste must be handled in accordance with all federal, state, provincial, and local regulations. Transport waste material to an authorized waste location, or incinerate under controlled conditions.

### **B: Component Waste Numbers**

Selenous acid (7783-00-8)

RCRA: waste number U204

### **Disposal Instructions**

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations. Do not allow this material to drain into sewers/water supplies.

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

# \* \* \* Section 14 - Transportation Information \* \* \*

# US DOT Information

Shipping Name: Corrosive Liquid N.O.S. (Hydrochloric Acid, Selenious Acid)

UN/NA #: UN1760 Hazard Class: 8 Packing Group: II

Required Label(s): Corrosive

Additional Info.: Not a Marine Pollutant.

#### **TDG Information**

Shipping Name: Not a Dangerous Good under TDG.

# \* \* \* Section 15 - Regulatory Information \* \* \*

### **US Federal Regulations**

# A: General Product Information

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.

Material Name: Insta Blak SS-370 GEL

ID: EPI-0153

# **B: Component Analysis**

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) and/or CERCLA (40 CFR 302.4).

# Hydrogen chloride (7647-01-0)

SARA 302: 500 lb TPQ (gas only)

SARA 313: 1.0 % de minimis concentration (acid aerosols including mists, vapors, gas, fog, and other

airborne forms of any particle size)

CERCLA: 5000 lb final RQ; 2270 kg final RQ

### Selenous acid (7783-00-8)

SARA 302: 1000 lb lower TPQ; 10000 lb upper TPQ

SARA 313: 1.0 % de minimis concentration (Chemical Category N725) (related to Selenium compounds)

CERCLA: 10 lb final RQ; 4.54 kg final RQ

Acute Health: no Chronic Health: no Fire: no Pressure: no Reactive: no

### State Regulations

#### Component Analysis - State

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

Component	CAS	CA	MA	MN	NJ	PA	RI
Hydrogen chloride	7647-01-0	Yes	Yes	Yes	Yes	Yes	Yes
Selenous acid (¹related to Selenium compounds)	7783-00-8	Yes	Yes	Yes	Yes	Yes	Yes

#### Canadian WHMIS Information

#### A: General Product Information

This is a controlled product under the Canadian WHMIS regulations.

Material Name: Insta Blak SS-370 GEL

### B: Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

ID: EPI-0153

Component	CAS#	Minimum Concentration
Hydrogen chloride	7647-01-0	1 %
Selenous acid	7783-00-8	1 %

### Additional Regulatory Information

#### A: General Product Information

No information available.

#### B: Component Analysis - Inventory

Component	CAS#	TSCA	CAN	EEC
Water	7732-18-5	Yes	DSL	EINECS
Hydrogen chloride	7647-01-0	Yes	DSL	EINECS
Selenous acid	7783-00-8	Yes	DSL	EINECS
Copper	7758-99-8	No	No	No

# \* \* \* Section 16 - Other Information \* \* \*

#### Other Information

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. Disclaimer: Supplier gives no warranty of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser will make his own tests to determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental and/or consequential property damage arising out of the use of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights. Read the Material Safety Data Sheet before handling product. The information herein is presented in good faith and believed to be accurate as of the effective date given. However, no warranty, expressed or implied, is given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

### **MSDS** History

MSDS has been reformatte	d in accord	lance with Al	NSI Z400.1-2004.
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Material Name: Insta Blak SS-370 GEL ID: EPI-0153

# Key/Legend

ACGIH = American Conference of Governmental Industrial Hygienists; DOT = Department of Transportation; DSL = Domestic Substances List; HMIS = Hazardous Materials Identification System; IARC = International Agency for Research on Cancer; IATA = International Air Transport Association; NDSL = Non-Domestic Substances List; NFPA = National Fire Protection Association; NOHSC = National Occupational Health & Safety Commission; NTP = National Toxicology Program; STEL = Short-term Exposure Limit; TDG = Transportation of Dangerous Goods; TLV = Threshold Limit Value; TSCA = Toxic Substances Control Act; TWA = Time Weighted Average

End of Sheet EPI-0153