

# SAFETY DATA SHEET



Revision date 19-Jul-2022

Revision Number 1

## 1. Identification

### Product identifier

**Product Name** Insta Blak A-384

### Other means of identification

**Product Code(s)** EPI-0040

**UN number or ID number** UN3264

**Synonyms** None

### Details of the supplier of the safety data sheet

#### Manufacturer Address

Electrochemical Products Inc.  
17000 West Lincoln Ave  
New Berlin, WI 53151  
Phone: 262-786-9330  
E-mail: us-sales@epi.com  
www.epi.com  
Fax: 262-786-9403

### Emergency telephone number

**Emergency Telephone** NCEC (#EPI-29003) +1 202 464 2554, +44 1865 407333

## 2. Hazard(s) identification

### Classification

Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Respiratory sensitization	Category 1
Skin sensitization	Category 1
Carcinogenicity	Category 1A
Reproductive toxicity	Category 1B
Specific target organ toxicity (repeated exposure)	Category 2

### Hazards not otherwise classified (HNOC)

Not applicable

### Label elements

**Danger**

#### Hazard statements

Causes severe skin burns and eye damage  
May cause allergy or asthma symptoms or breathing difficulties if inhaled  
May cause an allergic skin reaction  
May cause cancer

May damage fertility or the unborn child  
 May cause damage to organs through prolonged or repeated exposure



**Appearance** Light Blue-Green Solution

**Physical state** Liquid

**Odor** Odorless

#### Precautionary Statements - Prevention

Obtain special instructions before use  
 Do not handle until all safety precautions have been read and understood  
 Wear protective gloves/protective clothing/eye protection/face protection  
 Wash face, hands and any exposed skin thoroughly after handling  
 In case of inadequate ventilation wear respiratory protection  
 Contaminated work clothing must not be allowed out of the workplace  
 Do not breathe dust/fume/gas/mist/vapors/spray

#### Precautionary Statements - Response

Immediately call a POISON CENTER or doctor  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 Immediately call a POISON CENTER or doctor  
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower  
 Wash contaminated clothing before reuse  
 If skin irritation or rash occurs: Get medical advice/attention  
 IF INHALED: Remove person to fresh air and keep comfortable for breathing  
 Immediately call a POISON CENTER or doctor  
 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

#### Precautionary Statements - Storage

Store locked up

#### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

#### Other information

May be harmful if swallowed. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

### 3. Composition/information on ingredients

#### Substance

Not applicable.

#### Mixture

Chemical name	CAS No	Weight-%	Trade secret
Water	7732-18-5	65-85	*
Sulfuric acid, copper(2+) salt (1:1)	7758-98-7	3-7	*
Selenous acid	7783-00-8	1-5	*
Hydrogen chloride	7647-01-0	1-5	*
Phosphoric acid	7664-38-2	0.5-1.5	*
Fluoroboric acid	16872-11-0	0-1	*
Nickel(II) sulphate, hexahydrate	10101-97-0	0.1-1	*
Surfactants	Trade secret	0-1	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

## 4. First-aid measures

### Description of first aid measures

<b>General advice</b>	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention.
<b>Inhalation</b>	Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical advice/attention. May cause allergic respiratory reaction. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If symptoms persist, call a physician.
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. May cause an allergic skin reaction. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
<b>Ingestion</b>	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention. May produce an allergic reaction. Get medical attention immediately if symptoms occur.
<b>Self-protection of the first aider</b>	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required. See section 8 for more information.

### Most important symptoms and effects, both acute and delayed

<b>Symptoms</b>	Burning sensation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Coughing and/ or wheezing. Itching. Rashes. Hives.
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### Indication of any immediate medical attention and special treatment needed

<b>Note to physicians</b>	Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. May cause sensitization in susceptible persons. Treat symptomatically.
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## 5. Fire-fighting measures

<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Large Fire</b>	CAUTION: Use of water spray when fighting fire may be inefficient.
<b>Unsuitable extinguishing media</b>	Do not scatter spilled material with high pressure water streams.
<b>Specific hazards arising from the chemical</b>	The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors. Product is or contains a sensitizer. May cause sensitization by inhalation and skin contact. May cause sensitization by skin contact.
<b>Explosion data</b>	
<b>Sensitivity to mechanical impact</b>	None.

**Sensitivity to static discharge** None.

**Special protective equipment for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Attention! Corrosive material. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

**Other information** Refer to protective measures listed in Sections 7 and 8.

### Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

## 7. Handling and storage

### Precautions for safe handling

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Provide extract ventilation to points where emissions occur. Remove contaminated clothing and shoes.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Store locked up. Keep out of the reach of children. Store away from other materials.

## 8. Exposure controls/personal protection

### Control parameters

#### Exposure Limits

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Sulfuric acid, copper(2+) salt (1:1) 7758-98-7	TWA: 1 mg/m <sup>3</sup> Cu dust and mist	-	IDLH: 100 mg/m <sup>3</sup> Cu dust and mist TWA: 1 mg/m <sup>3</sup> Cu dust and mist
Selenous acid 7783-00-8	TWA: 0.2 mg/m <sup>3</sup> Se	TWA: 0.2 mg/m <sup>3</sup> Se (vacated) TWA: 0.2 mg/m <sup>3</sup> Se	IDLH: 1 mg/m <sup>3</sup> Se TWA: 0.2 mg/m <sup>3</sup> except Selenium hexafluoride Se
Hydrogen chloride 7647-01-0	Ceiling: 2 ppm	Ceiling: 5 ppm Ceiling: 7 mg/m <sup>3</sup>	IDLH: 50 ppm Ceiling: 5 ppm Ceiling: 7 mg/m <sup>3</sup>
Phosphoric acid	STEL: 3 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>	IDLH: 1000 mg/m <sup>3</sup>

7664-38-2	TWA: 1 mg/m <sup>3</sup>	(vacated) TWA: 1 mg/m <sup>3</sup> (vacated) STEL: 3 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup> STEL: 3 mg/m <sup>3</sup>
Fluoroboric acid 16872-11-0	TWA: 2.5 mg/m <sup>3</sup> F	TWA: 2.5 mg/m <sup>3</sup> F (vacated) TWA: 2.5 mg/m <sup>3</sup>	IDLH: 250 mg/m <sup>3</sup> F
Nickel(II) sulphate, hexahydrate 10101-97-0	TWA: 0.1 mg/m <sup>3</sup> Ni inhalable particulate matter	TWA: 1 mg/m <sup>3</sup> Ni (vacated) TWA: 0.1 mg/m <sup>3</sup> Ni	IDLH: 10 mg/m <sup>3</sup> Ni TWA: 0.015 mg/m <sup>3</sup> except Nickel carbonyl Ni

**Biological occupational exposure limits**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

**Appropriate engineering controls**

**Engineering controls**                      Showers  
   Eyewash stations  
   Ventilation systems.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection**                      Tight sealing safety goggles. Face protection shield.

**Hand protection**                              Wear suitable gloves. Impervious gloves.

**Skin and body protection**                      Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.

**Respiratory protection**                      No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations**                      Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

## 9. Physical and chemical properties

**Information on basic physical and chemical properties**

**Physical state**                                      Liquid  
**Appearance**                                      Light Blue-Green Solution  
**Color**    blue/green  
**Odor**    Odorless

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	<= 2	None known
Melting point / freezing point	0 °C / 32 °F	None known
Boiling point / boiling range	100 °C / 212 °F	None known
Flash point	No data available	None known
Relative density	1.09 - 1.12	None known
Water solubility	Completely	None known

**Other information**

**VOC Content (%)**                                      0

## 10. Stability and reactivity

**Reactivity**    No information available.

<b>Chemical stability</b>	Stable under normal conditions.
<b>Possibility of hazardous reactions</b>	None under normal processing.
<b>Conditions to avoid</b>	Exposure to air or moisture over prolonged periods.
<b>Incompatible materials</b>	Acids. Bases. Oxidizing agent.
<b>Hazardous decomposition products</b>	None known based on information supplied.

## 11. Toxicological information

### Information on likely routes of exposure

#### Product Information

<b>Inhalation</b>	Specific test data for the substance or mixture is not available. Corrosive by inhalation. (based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs. Pulmonary edema can be fatal. May cause sensitization in susceptible persons.
<b>Eye contact</b>	Specific test data for the substance or mixture is not available. Causes serious eye damage. (based on components). Corrosive to the eyes and may cause severe damage including blindness. May cause irreversible damage to eyes.
<b>Skin contact</b>	Specific test data for the substance or mixture is not available. Corrosive. (based on components). Causes burns. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. May cause sensitization by skin contact.
<b>Ingestion</b>	Specific test data for the substance or mixture is not available. Causes burns. (based on components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung damage if swallowed. May be fatal if swallowed and enters airways. May cause additional affects as listed under "Inhalation".

### Symptoms related to the physical, chemical and toxicological characteristics

<b>Symptoms</b>	Redness. Burning. May cause blindness. Coughing and/ or wheezing. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing. Itching. Rashes. Hives.
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### Acute toxicity

#### Numerical measures of toxicity

No information available

#### The following values are calculated based on chapter 3.1 of the GHS document

<b>ATEmix (oral)</b>	2,036.20 mg/kg
<b>ATEmix (dermal)</b>	24,625.80 mg/kg
<b>ATEmix (inhalation-gas)</b>	30,595.20 ppm
<b>ATEmix (inhalation-dust/mist)</b>	6.6081 mg/l

#### Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Water 7732-18-5	> 90 mL/kg ( Rat )	-	-

Sulfuric acid, copper(2+) salt (1:1) 7758-98-7	= 300 mg/kg ( Rat )	> 2000 mg/kg ( Rat )	-
Hydrogen chloride 7647-01-0	238 - 277 mg/kg ( Rat )	> 5010 mg/kg ( Rabbit )	= 1.68 mg/L ( Rat ) 1 h
Phosphoric acid 7664-38-2	= 1530 mg/kg ( Rat )	= 2740 mg/kg ( Rabbit )	> 850 mg/m <sup>3</sup> ( Rat ) 1 h
Fluoroboric acid 16872-11-0	100 - 200 mg/kg ( Rat )	-	-
Nickel(II) sulphate, hexahydrate 10101-97-0	= 264 mg/kg ( Rat )	-	-
Surfactants	= 4 g/kg ( Rat )	-	-

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

<b>Skin corrosion/irritation</b>	Classification based on data available for ingredients. Causes burns.
<b>Serious eye damage/eye irritation</b>	Classification based on data available for ingredients. Risk of serious damage to eyes. Causes burns.
<b>Respiratory or skin sensitization</b>	May cause sensitization by inhalation. May cause sensitization by skin contact.
<b>Germ cell mutagenicity</b>	No information available.
<b>Carcinogenicity</b>	Contains a known or suspected carcinogen. Classification based on data available for ingredients. May cause cancer.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Selenous acid 7783-00-8	-	Group 3	-	-
Hydrogen chloride 7647-01-0	-	Group 3	-	X
Nickel(II) sulphate, hexahydrate 10101-97-0	-	Group 1	Known	X

#### Legend

##### **IARC (International Agency for Research on Cancer)**

Group 1 - Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

##### **NTP (National Toxicology Program)**

Known - Known Carcinogen

##### **OSHA (Occupational Safety and Health Administration of the US Department of Labor)**

X - Present

<b>Reproductive toxicity</b>	Contains a known or suspected reproductive toxin. Classification based on data available for ingredients. May damage fertility or the unborn child.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	May cause damage to organs through prolonged or repeated exposure.
<b>Target organ effects</b>	Liver, Kidney, Respiratory system, Eyes, Skin.

**Aspiration hazard** No information available.

**Other adverse effects** No information available.

**Interactive effects** No information available.

## 12. Ecological information

**Ecotoxicity** Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Sulfuric acid, copper(2+) salt (1:1) 7758-98-7	-	LC50: =0.1mg/L (96h, Oncorhynchus mykiss)	-	EC50: 0.0058 - 0.0073mg/L (48h, Daphnia magna)
Fluoroboric acid 16872-11-0	-	LC50: =2600mg/L (96h, Brachydanio rerio)	-	-
Nickel(II) sulphate, hexahydrate 10101-97-0	EC50: =0.75mg/L (72h, Pseudokirchneriella subcapitata)	LC50: 2.594 - 3.279mg/L (96h, Pimephales promelas) LC50: 32.36 - 41.04mg/L (96h, Poecilia reticulata) LC50: 5.79 - 6.54mg/L (96h, Cyprinus carpio) LC50: 8.6 - 13.6mg/L (96h, Oncorhynchus mykiss) LC50: =1.28mg/L (96h, Oncorhynchus mykiss) LC50: =47.58mg/L (96h, Cyprinus carpio)	-	EC50: =1mg/L (48h, Daphnia magna)

**Persistence and degradability** No information available.

**Bioaccumulation** There is no data for this product.

**Other adverse effects** No information available.

## 13. Disposal considerations

### Waste treatment methods

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

**US EPA Waste Number** U204

## 14. Transport information

### DOT

**UN number or ID number** UN3264  
**Proper shipping name** Corrosive liquid, acidic, inorganic, n.o.s.



<b>Transport hazard class(es)</b>	8
<b>Packing group</b>	II
<b>Reportable Quantity (RQ)</b>	(Sulfuric acid, copper(2+) salt (1:1): RQ (kg)= 4.54, Nickel(II) sulphate, hexahydrate: RQ (kg)= 45.40, Selenous acid: RQ (kg)= 4.54) Sulfuric acid, copper(2+) salt (1:1): RQ (lb)= 10, Nickel(II) sulphate, hexahydrate: RQ (lb)= 100.00, Selenous acid: RQ (lb)= 10
<b>DOT reportable quantity kg (calculated)</b>	Sulfuric acid, copper(2+) salt (1:1): RQ (kg)= 70.00, Nickel(II) sulphate, hexahydrate: RQ (kg)= 6776.00, Selenous acid: RQ (kg)= 160.00
<b>DOT Reportable Quantity lbs. (calculated)</b>	Sulfuric acid, copper(2+) salt (1:1): RQ (lb)= 154.00, Nickel(II) sulphate, hexahydrate: RQ (lb)= 14925.00, Selenous acid: RQ (lb)= 353.00
<b>Special Provisions</b>	386, B2, IB2, T11, TP2, TP27
<b>DOT Marine Pollutant</b>	I
<b>Marine pollutant</b>	Sulfuric acid, copper(2+) salt (1:1), Selenous acid
<b>Description</b>	UN3264, Corrosive liquid, acidic, inorganic, n.o.s. (Hydrogen chloride, Phosphoric acid), 8, II, Marine pollutant (Sulfuric acid, copper(2+) salt (1:1), Selenous acid)
<b>Emergency Response Guide Number</b>	154
<b>TDG</b>	
<b>UN number or ID number</b>	UN3264
<b>UN proper shipping name</b>	Corrosive liquid, acidic, inorganic, n.o.s.
<b>Transport hazard class(es)</b>	8
<b>Packing group</b>	II
<b>Special Provisions</b>	16
<b>Marine pollutant</b>	Sulfuric acid, copper(2+) salt (1:1), Selenous acid.
<b>Description</b>	UN3264, Corrosive liquid, acidic, inorganic, n.o.s. (Hydrogen chloride, Phosphoric acid), 8, II
<b>MEX</b>	
<b>UN number or ID number</b>	UN3264
<b>UN proper shipping name</b>	Corrosive liquid, acidic, inorganic, n.o.s.
<b>Transport hazard class(es)</b>	8
<b>Packing group</b>	II
<b>Technical Name</b>	Hydrogen chloride, Phosphoric acid
<b>Description</b>	UN3264, Corrosive liquid, acidic, inorganic, n.o.s. (Hydrogen chloride, Phosphoric acid), 8, II
<b>Special Provisions</b>	274
<b>ICAO (air)</b>	
<b>UN number or ID number</b>	UN3264
<b>UN proper shipping name</b>	Corrosive liquid, acidic, inorganic, n.o.s.
<b>Transport hazard class(es)</b>	8
<b>Packing group</b>	II
<b>Description</b>	UN3264, Corrosive liquid, acidic, inorganic, n.o.s. (Hydrogen chloride, Phosphoric acid), 8, II
<b>Special Provisions</b>	A3
<b>IATA</b>	
<b>UN number or ID number</b>	UN3264
<b>UN proper shipping name</b>	Corrosive liquid, acidic, inorganic, n.o.s.
<b>Transport hazard class(es)</b>	8
<b>Packing group</b>	II
<b>Technical Name</b>	Hydrogen chloride, Phosphoric acid
<b>Description</b>	UN3264, Corrosive liquid, acidic, inorganic, n.o.s. (Hydrogen chloride, Phosphoric acid), 8, II
<b>Special Provisions</b>	A3, A803
<b>ERG Code</b>	8L
<b>IMDG</b>	
<b>UN number or ID number</b>	UN3264
<b>UN proper shipping name</b>	Corrosive liquid, acidic, inorganic, n.o.s.
<b>Transport hazard class(es)</b>	8
<b>Packing group</b>	II
<b>EmS-No</b>	F-A, S-B
<b>Special Provisions</b>	274

**Marine pollutant** P  
**Marine Pollutant** Sulfuric acid, copper(2+) salt (1:1)  
**Description** UN3264, Corrosive liquid, acidic, inorganic, n.o.s. (Hydrogen chloride, Phosphoric acid, Sulfuric acid, copper(2+) salt (1:1)), 8, II, Marine pollutant

**RID**

**UN number or ID number** UN3264  
**UN proper shipping name** Corrosive liquid, acidic, inorganic, n.o.s.  
**Transport hazard class(es)** 8  
**Packing group** II  
**Classification code** C1  
**Special Provisions** 274  
**Description** UN3264, Corrosive liquid, acidic, inorganic, n.o.s. (Hydrogen chloride, Phosphoric acid), 8, II, Environmentally Hazardous

**ADR**

**UN number or ID number** UN3264  
**UN proper shipping name** Corrosive liquid, acidic, inorganic, n.o.s.  
**Transport hazard class(es)** 8  
**Packing group** II  
**Classification code** C1  
**Tunnel restriction code** (E)  
**Special Provisions** 274  
**Description** UN3264, Corrosive liquid, acidic, inorganic, n.o.s. (Hydrogen chloride, Phosphoric acid), 8, II, (E), Environmentally Hazardous

**ADN**

**UN number or ID number** UN3264  
**UN proper shipping name** Corrosive liquid, acidic, inorganic, n.o.s.  
**Transport hazard class(es)** 8  
**Packing group** II  
**Classification code** C1  
**Special Provisions** 274  
**Description** UN3264, Corrosive liquid, acidic, inorganic, n.o.s. (Hydrogen chloride, Phosphoric acid), 8, II, Environmentally Hazardous  
**Equipment Requirements** PP, EP

**15. Regulatory information****International Inventories**

**TSCA** Complies

Chemical name	CAS No	US TSCA Inventory listing	US TSCA inactive/active designation
Water	7732-18-5	Present	Active
Sulfuric acid, copper(2+) salt (1:1)	7758-98-7	Present	Active
Selenous acid	7783-00-8	Present	Active
Hydrogen chloride	7647-01-0	Present	Active
Phosphoric acid	7664-38-2	Present	Active
Trade secret	-	Present	Active
Trade secret	-	Present	Active
Fluoroboric acid	16872-11-0	Present	Active
Nickel(II) sulphate, hexahydrate	10101-97-0	Present	Active
Surfactants	-	Present	Active

**DSL/NDSL** Does not comply  
**EINECS/ELINCS** Does not comply  
**ENCS** Complies

IECSC	Complies
KECL	Does not comply
PICCS	Does not comply
AICS	Does not comply

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**US Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	Reportable Quantity (RQ)
Sulfuric acid, copper(2+) salt (1:1) 7758-98-7	10 lb	-	RQ 10 lb final RQ RQ 4.54 kg final RQ
Selenous acid 7783-00-8	10 lb	10 lb	RQ 10 lb final RQ RQ 4.54 kg final RQ
Hydrogen chloride 7647-01-0	5000 lb	5000 lb	RQ 5000 lb final RQ RQ 2270 kg final RQ
Phosphoric acid 7664-38-2	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ
Nickel(II) sulphate, hexahydrate 10101-97-0	100 lb	-	RQ 100 lb final RQ RQ 45.4 kg final RQ

**US State Regulations****California Proposition 65**

This product contains the following Proposition 65 chemicals:.

Chemical name	California Proposition 65
Nickel(II) sulphate, hexahydrate - 10101-97-0	Carcinogen Developmental Male Reproductive

**U.S. State Right-to-Know Regulations**

Chemical name	New Jersey	Massachusetts	Pennsylvania
Water	-	-	X

7732-18-5			
Sulfuric acid, copper(2+) salt (1:1) 7758-98-7	X	-	X
Selenous acid 7783-00-8	X	-	X
Hydrogen chloride 7647-01-0	X	-	X
Phosphoric acid 7664-38-2	X	-	X
Trade secret	X	-	X
Fluoroboric acid 16872-11-0	X	-	-
Nickel(II) sulphate, hexahydrate 10101-97-0	X	-	X

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

**16. Other information**

**NFPA** Health hazards 3 Flammability 0 Instability 0 Special hazards -  
**HMIS** Health hazards 2 \* Flammability 0 Physical hazards 0 Personal protection X  
*Chronic Hazard Star Legend \* = Chronic Health Hazard*

**Key or legend to abbreviations and acronyms used in the safety data sheet****Legend Section 8: Exposure controls/personal protection**

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)  
 Ceiling Maximum limit value \* Skin designation

**Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)  
 U.S. Environmental Protection Agency ChemView Database  
 European Food Safety Authority (EFSA)  
 EPA (Environmental Protection Agency)  
 Acute Exposure Guideline Level(s) (AEGL(s))  
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
 U.S. Environmental Protection Agency High Production Volume Chemicals  
 Food Research Journal  
 Hazardous Substance Database  
 International Uniform Chemical Information Database (IUCLID)  
 Japan GHS Classification  
 Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
 NIOSH (National Institute for Occupational Safety and Health)  
 National Library of Medicine's ChemID Plus (NLM CIP)  
 National Library of Medicine's PubMed database (NLM PUBMED)  
 National Toxicology Program (NTP)  
 New Zealand's Chemical Classification and Information Database (CCID)  
 Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
 Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
 Organization for Economic Co-operation and Development Screening Information Data Set  
 World Health Organization

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**Disclaimer**

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**End of Safety Data Sheet**