# SAFETY DATA SHEET



Revision date 06-Oct-2022

**Revision Number** 1

# 1. Identification

Product identifier

Product Name E-Chrome Ultra Blue HP

Other means of identification

Product Code(s) EPI-0096C

UN number or ID number UN1760

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

### Hazards not otherwise classified (HNOC)

Not applicable

# **Label elements**

Danger

# Hazard statements

Causes severe skin burns and eye damage



Appearance Brown Amber Pink liquid Physical state Liquid Odor sharp/acidic

#### **Precautionary Statements - Prevention**

Do not breathe dusts or mists

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

#### **Precautionary Statements - Response**

Call a POISON CENTER or doctor/physician if you feel unwell

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

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: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

Do NOT induce vomiting

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

#### **Precautionary Statements - Storage**

Store locked up

### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Other information

No information available.

# 3. Composition/information on ingredients

#### Substance

Not applicable.

### <u>Mixture</u>

Chemical name	CAS No	Weight-%	Trade secret
Water	7732-18-5	85-90	*
Sulfuric acid	7664-93-9	2-4	*
Cobalt sulfate	10124-43-3	0.1-0.9	*
Ammonium bifluoride	1341-49-7	0.1-1.0	*

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

# 4. First-aid measures

#### **Description of first aid measures**

General advice Get medical attention if irritation or other symptoms occur. Show this safety data sheet to

the doctor in attendance.

Inhalation Conscious inhalation victims should be assisted to an uncontaminated area and inhale

fresh air. If symptoms persist, call a physician.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep

eye wide open while rinsing. Call a physician if irritation persists.

**Skin contact**Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Get immediate medical advice/attention. If skin irritation or rash occurs:

Get medical advice/attention.

**Ingestion** 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.

Self-protection of the first aider 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.

Wear personal protective clothing (see section 8).

Most important symptoms and effects, both acute and delayed

**Symptoms** Burning sensation.

Indication of any immediate medical attention and special treatment needed

**Note to physicians** 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.

5. Fire-fighting measures

surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the

chemical

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition

can lead to release of irritating gases and vapors.

**Explosion data** 

Sensitivity to mechanical impact 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.

#### 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 This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Sulfuric acid	TWA: 0.2 mg/m³ thoracic	TWA: 1 mg/m <sup>3</sup>	IDLH: 15 mg/m <sup>3</sup>
7664-93-9	particulate matter	(vacated) TWA: 1 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>
Cobalt sulfate	TWA: 0.02 mg/m <sup>3</sup> Co inhalable	-	-
10124-43-3	particulate matter		
Ammonium bifluoride	TWA: 2.5 mg/m³ F	TWA: 2.5 mg/m <sup>3</sup> F	IDLH: 250 mg/m <sup>3</sup> F
1341-49-7	-	(vacated) TWA: 2.5 mg/m <sup>3</sup>	TWA: 2.5 mg/m³ F

### **Biological occupational exposure limits**

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

Chemical name	ACGIH
Cobalt sulfate	15 μg/L - urine (Cobalt) - end of shift at end of workweek
10124-43-3	
Ammonium bifluoride	2 mg/L - urine (Fluoride) - prior to shift
1341-49-7	3 mg/L - urine (Fluoride) - end of shift

#### 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.

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

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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 Brown Amber Pink liquid

ColorChange in colorOdorsharp/acidic

Property Values Remarks • Method

< 1.5 None known pН No data available None known Melting point / freezing point 104.4 °C / 219.9 °F Boiling point / boiling range None known Flash point No data available None known Relative density 1.05 - 1.08 None known Complete Water solubility None known

Other information

VOC Content (%) 0

# 10. Stability and reactivity

**Reactivity** No information available.

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions 
None under normal processing.

**Conditions to avoid** Exposure to air or moisture over prolonged periods.

**Incompatible materials** Acids. Bases. Oxidizing agent.

Hazardous decomposition products None known based on information supplied.

# 11. Toxicological information

#### Information on likely routes of exposure

#### **Product Information**

**Inhalation** 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.

**Eye contact** 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.

**Skin contact** Specific test data for the substance or mixture is not available. Corrosive. (based on

components). Causes burns.

Ingestion 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.

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

Symptoms Redness. Burning. May cause blindness. Coughing and/ or wheezing.

**Acute toxicity** 

#### Numerical measures of toxicity

No information available

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Water	> 90 mL/kg (Rat)	-	-
7732-18-5			
Sulfuric acid	= 2140 mg/kg (Rat)	-	= 0.375 mg/L (Rat) 4 h
7664-93-9			-
Cobalt sulfate	= 424 mg/kg (Rat)	-	-
10124-43-3			
Ammonium bifluoride	= 130 mg/kg (Rat)	-	-
1341-49-7			

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

**Skin corrosion/irritation** Classification based on data available for ingredients. Causes burns.

Serious eye damage/eye irritation Classification based on data available for ingredients. Risk of serious damage to eyes.

Causes burns.

**Respiratory or skin sensitization** No information available.

Germ cell mutagenicity No information available.

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

Chemical name	ACGIH	IARC	NTP	OSHA
Sulfuric acid	-	Group 1	Known	X
7664-93-9				
Cobalt sulfate	-	Group 2B	Reasonably Anticipated	X
10124-43-3				
Ammonium bifluoride	-	Group 3	-	-
1341-49-7				

#### Legend

# IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

# NTP (National Toxicology Program)

Known - Known Carcinogen

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

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

X - Present

#### EPI-0096C - E-Chrome Ultra Blue HP

Reproductive toxicity No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure**No information available.

**Aspiration hazard** No information available.

Other adverse effects No information available.

Interactive effects No information available.

# 12. Ecological information

**Ecotoxicity** The environmental impact of this product has not been fully investigated.

	Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
ľ	Sulfuric acid 7664-93-9	-	LC50: >500mg/L (96h, Brachydanio rerio)	- -	-
	Cobalt sulfate 10124-43-3	EC50: 0.4 - 72mg/L (72h, Pseudokirchneriella subcapitata)	-	-	-

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.

# 14. Transport information

DOT

UN number or ID number UN1760

Proper shipping name Corrosive liquids, n.o.s.

Transport hazard class(es)
Packing group

Special Provisions B2, IB2, T11, TP2, TP27

**DOT Marine Pollutant** NP

**Description** UN1760, Corrosive liquids, n.o.s. (Sulfuric acid), 8, II

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Number

**TDG** 

**UN number or ID number** UN1760

**UN proper shipping name** Corrosive liquid, n.o.s.

Transport hazard class(es) 8
Packing group II
Special Provisions 16

**Description** UN1760, Corrosive liquid, n.o.s. (Sulfuric acid), 8, II

**MEX** 

UN number or ID number UN1760

**UN proper shipping name** Corrosive liquid, n.o.s.

Transport hazard class(es) 8
Packing group | |

Technical Name Sulfuric acid

**Description** UN1760, Corrosive liquid, n.o.s. (Sulfuric acid), 8, II

Special Provisions 274

ICAO (air)

**UN number or ID number** UN1760

**UN proper shipping name** Corrosive liquid, n.o.s.

Transport hazard class(es) 8
Packing group | |

**Description** UN1760, Corrosive liquid, n.o.s. (Sulfuric acid), 8, II

Special Provisions A3

**IATA** 

**UN number or ID number** UN1760

**UN proper shipping name** Corrosive liquid, n.o.s.

Transport hazard class(es) 8
Packing group | |

Technical Name Sulfuric acid

**Description** UN1760, Corrosive liquid, n.o.s. (Sulfuric acid), 8, II

Special Provisions A3, A803 ERG Code 8L

<u>IMDG</u>

UN number or ID number UN1760

**UN proper shipping name** Corrosive liquid, n.o.s.

Transport hazard class(es)

Packing group

EmS-No

Special Provisions

Marine pollutant

8

8

F-A, S-B

274

Mary NP

**Description** UN1760, Corrosive liquid, n.o.s. (Sulfuric acid), 8, II

<u>RID</u>

UN number or ID number UN1760

**UN proper shipping name** Corrosive liquid, n.o.s.

Transport hazard class(es) 8
Packing group II
Classification code C9
Special Provisions 274

**Description** UN1760, Corrosive liquid, n.o.s. (Sulfuric acid), 8, II

**ADR** 

UN number or ID number UN1760

UN proper shipping name Corrosive liquid, n.o.s.

Transport hazard class(es) 8
Packing group II
Classification code C9
Tunnel restriction code (E)
Special Provisions 274

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**Description** UN1760, Corrosive liquid, n.o.s. (Sulfuric acid), 8, II, (E)

**ADN** 

UN number or ID number UN1760

**UN proper shipping name** Corrosive liquid, n.o.s.

Transport hazard class(es) 8
Packing group II
Classification code C9
Special Provisions 274

**Description** UN1760, Corrosive liquid, n.o.s. (Sulfuric acid), 8, II

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
Trade secret	-	Present	Active
Sulfuric acid	7664-93-9	Present	Active
Cobalt sulfate	10124-43-3	Present	Active
Ammonium bifluoride	1341-49-7	Present	Active
Trade secret	-	Present	Active
Trade secret	-	Present	Active

<sup>\*</sup>Contact supplier for details. One or more substances in this product are either not listed on the US TSCA inventory, listed on the confidential US TSCA inventory or are otherwise exempted from inventory listing requirements

**DSL/NDSL** Complies **EINECS/ELINCS** Complies

ENCS Does not comply Complies

KECL Complies

PICCS Does not comply AICS Complies

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, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

Chemical name	Hazardous Substances RQs	Extremely Hazardous	Reportable Quantity (RQ)
		Substances RQs	
Sulfuric acid	1000 lb	1000 lb	RQ 1000 lb final RQ
7664-93-9			RQ 454 kg final RQ
Ammonium bifluoride	100 lb	-	RQ 100 lb final RQ
1341-49-7			RQ 45.4 kg final RQ

### **US State Regulations**

### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

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

This product does not contain any substances regulated under applicable state right-to-know regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Water	-	-	X
7732-18-5			
Sulfuric acid	X	-	X
7664-93-9			
Cobalt sulfate	X	-	X
10124-43-3			
Ammonium bifluoride	X	-	X
1341-49-7			

#### 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 3 Flammability 0 Physical hazards 0 Personal protection X

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

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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

Revision date 06-Oct-2022

**Revision Note**No information available.

**Disclaimer** 

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**