

SECTION 1: Product and Company Identification

Identification of the substance or mixture

Product Name: IEF Anode Buffer [50X]
Catalog #: 10497, 10497-1

Company Identification

Cepharm Life Sciences Inc.
 11830 W Market Place, Suite K
 Fulton, MD 20759
 USA
 Toll Free: 1-800-257-1565
 Phone: 410-636-4954

24-hour Emergency Response for Hazardous Materials [or Dangerous Goods] Incident, Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Toll Free: 1-800-424-9300/ +1 703-527-3887 CCN 1010970

For Research Use Only. Not for use in diagnostic procedures.

SECTION 2: Hazards identification

Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
 n/a

GHS Label elements, including precautionary statements

Pictogram
Signal word



Danger

Health Hazards

Skin corrosion / irritation Category 1

Physical Hazards

Not hazardous

Hazard statement(s)

H314 Causes severe skin burns and eye damage

Precautionary statement(s)

P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting
 P260 Do not breathe dust/fume/gas/mist/vapors/spray
 P280 Wear protective gloves/protective clothing/eye protection/face protection

Principle Routes of Exposure

Potential Health Effects

Eyes Risk of serious damage to eyes.
 Skin Causes burns.
 Inhalation May cause irritation of respiratory tract.

Ingestion May be harmful if swallowed

Specific Effects

Carcinogenic effects None.
Mutagenic effects None.
Reproductive toxicity None.
Sensitization Not applicable

Target Organ Effects None under normal use conditions.

HMIS

Health: 3
Flammability: 0
Reactivity: 0

SECTION 3: Composition / Information on Ingredients

Chemical Name	CAS-No	EINECS-No	Weight %
Phosphoric acid	7664-38-2	231-633-2	1-5%

We recommend handling all chemicals with caution.

SECTION 4: First Aid Measures

Skin contact Wash off immediately with plenty of water for at least 15 minutes. Take off all contaminated clothing and wash it before reuse. Immediate medical attention is required.
Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.
Ingestion Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice.
inhalation Remove to fresh air. If not breathing, give artificial respiration. Call a physician or poison control center immediately.

Most important symptoms and effects, both acute and delayed

H314 - Causes severe skin burns and eye damage

Notes to physician Treat symptomatically.

SECTION 5: Firefighting Measures

Suitable extinguishing media Water spray. Carbon dioxide (CO2). Foam. Dry chemical.
Special protective equipment for firefighters Wear self-contained breathing apparatus and protective suit.
Specific hazards arising from the chemical Not known

SECTION 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Use personal protection equipment

Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material.

Reference to other sections

For disposal see section 13.

SECTION 7: Handling & Storage

Handling

Always wear recommended Personal Protective Equipment. No special handling advices are necessary.

Storage

Keep in a dry, cool and well-ventilated place. Keep in properly labeled containers

SECTION 8: Exposure Controls / Personal Protection

Exposure Limits

Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Phosphoric acid	1 mg/m ³	None	1 mg/m ³	3 mg/m ³

Engineering Measures Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Hand protection	Impervious gloves.
Eye protection	Wear safety glasses with side shields (or goggles).
Skin and Body Protection	Lightweight protective clothing
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls

No special environmental precautions required.

SECTION 9: Physical and Chemical Properties

Information on basic physical and chemical properties

a) Appearance	Form: liquid
b) Odor	No data available
c) Odor Threshold	No data available
d) pH	0-2
e) Melting point/freezing point	No data available
f) Initial boiling point and boiling range	No data available
g) Flash point	No data available
h) Evaporation rate	No data available
i) Flammability (solid, gas)	No data available
j) Upper/lower flammability or explosive limits	No data available
k) Vapour pressure	No data available
l) Vapour density	No data available
m) Relative density	No data available
n) Water solubility	No data available
o) Partition coefficient: n-octanol/water	No data available
p) Auto-ignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available

Other safety information

No data available

SECTION 10: Stability & Reactivity

Stability

Stable under normal conditions.

Possibility of hazardous reactions

Hazardous reaction has not been reported.

Conditions to avoid

None under normal processing.

Incompatible materials

No information available.

Hazardous decomposition products

No information available.

SECTION 11: Toxicological Information

Information on toxicological effects

Acute toxicity

Chemical Name	LD50 (oral, rat/mouse)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat/mouse)
Phosphoric acid	=1530 mg/kg (Rat)	No data available	>850 mg/m3 (Rat)

Principle Routes of Exposure

Potential Health Effects

Eyes	Risk of serious damage to eyes.
Skin	Causes burns
Inhalation	May cause irritation of respiratory tract
Ingestion	May be harmful if swallowed.
Carcinogenic effects	None
Mutagenic effects	None
Reproductive Toxicity	None
Sensitization	No information available.
Target Organ Effects	None under normal use conditions.

SECTION 12: Ecological Information

Ecotoxicity

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

Mobility

No information available.

Biodegradation

No information available.

Bioaccumulation

No information available.

SECTION 13: Disposal Considerations

Dispose of contents / containers in accordance with local regulations.

SECTION 14: Transport Information

IATA

Proper Shipping Name	Phosphoric acid solution
Hazard Class	8
Subsidiary class	None
Packing group	III
UN-No	1805
Environmental hazards	None

SECTION 15: Regulatory Information

Component	US TSCA
Phosphoric acid 7664-38-2 (1-5)	Listed

US Federal Regulations

SARA 313

This product is not regulated by SARA.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain HAPs.

US State Regulations

Chemical Name	Massachusetts-RTK	New Jersey – RTK	Pennsylvania – RTK	Illinois – RTK	Rhode Island – RTK
Phosphoric acid	Listed	Listed	Listed	-	Listed

California Proposition 65

This product does not contain any Proposition 65 chemicals.

WHMIS Hazard Class

E – corrosive material

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

SECTION 16: Other Information

Disclaimer:

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It does not represent any guarantee of the properties of the product. Cepham Life Sciences Incorporated and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.