



# MATERIAL SAFETY DATA SHEET

Product: 45-0134

## Eluting Solution 2 x 10mL Vial

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Information Phone: (408) 737-0700  
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The following information is believed to be accurate and is currently the best information available to us. However, we make no warranties, express or implied, with respect to the information supplied and we assume no liability resulting from its use.

### 2. HAZARDOUS IDENTIFICATION

HAZARD CLASS	Irritant		NFPA	HMIS
Eyes:	Irritant	HEALTH	2	2
Skin:	Irritant	FLAMMABILITY	0	0
Ingestion:	Irritant	REACTIVITY	0	0
Inhalation:	Irritant	NFPA SPECIAL HMIS PPE	-	-

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS	Acetic Acid	Perchloric Acid
PERCENT (%)	1.0	< 1
CAS NO.	CAS # 00064-19-7	CAS # 07601-90-3
EINECS NO.	200-580-7	231-512-4
RISKS	R10, R35	R5, R8, R35
SAFETY	S23, S26, S45	S23, S26, S36, S45



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## 4. FIRST AID MEASURES

- GENERAL:** Remove contaminated clothing, wash thoroughly before reuse.
- EYES:** Flush with water for at least 15 minutes occasionally raising upper and lower eyelids.
- SKIN:** Remove contaminated clothing and flush with water thoroughly
- INHALATION:** Vapors may be irritating to respiratory system.
- INGESTION:** If large amounts are swallowed, get medical help immediately.

## 5. FIRE FIGHTING MEASURES

- UNUSUAL FIRE AND EXPLOSION:** Not Applicable
- HAZARDS:** Not Applicable
- EXTINGUISHING MEDIA:** Not combustible
- SPECIAL FIRE FIGHTING PROCEDURES:** Although the product is not combustible, firefighters subject to products of combustion should wear full-protective clothing including self-contained breathing apparatus

## 6. ACCIDENTAL RELEASE MEASURES

- Ventilate area.
- Wear appropriate protective clothing and eye protection.
- Contain spill.
- Neutralize with sodium bicarbonate and collect or absorb with an inert material (vermiculite, dry sand, earth, etc.)
- Mop up and store in a suitable waste container.
- Wash contaminated areas with soap and water.

## 7. HANDLING AND STORAGE

- Ensure good ventilation.
- Have an eye wash in the immediate area in case of emergency.
- Store at room temperature
- Keep container tightly closed
- Use good laboratory practice when working with any chemical whether it is considered hazardous or not.



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## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

### ROUTES OF ENTRY

**INHALATION:** Yes

**SKIN:** Yes

**INGESTION:** Yes

### HEALTH HAZARDS

**ACUTE:** Vapors may be irritating to skin, eyes, nose and throat.

**CHRONIC:** Chronic irritation of exposed tissues.

### VENTILATION

**LOCAL EXHAUST:** Good laboratory ventilation is acceptable.

**MECHANICAL (GENERAL):** Use in hoods if possible

**SPECIAL:** None

**OTHER:** None

### PROTECTIVE CLOTHING OR EQUIPMENT

**GLOVES:** Disposable laboratory gloves are adequate

**EYE PROTECTION:** Glasses or goggles.

**RESPIRATORY:** None

**OTHER:** Lab coats

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** Clear Liquid

**ODOR:** Vinegar odor

**pH:** < 1.0

**MOLECULAR WEIGHT:** Not Determined (mixture)

**MELTING POINT:** Not Applicable (liquid)

**BOILING POINT:** 100 °C

**AUTOIGNITION TEMPERATURE:** Not Applicable (nonflammable)

**FLASH POINT:** Not Applicable (nonflammable)

**LOWER EXPLOSION LIMIT:** Not Applicable (nonflammable)

**UPPER EXPLOSION LIMIT:** Not Applicable (nonflammable)

**SPECIFIC GRAVITY:** Not Determined



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## 10. STABILITY & REACTIVITY

**STABILITY/CONDITIONS TO AVOID:** This is a stable chemical

**INCOMPATIBILITY (MATERIALS TO AVOID):** . Avoid moisture. Aluminum oxide is incompatible with chlorine and fluorine.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Not Determined

**HAZARDOUS POLYMERIZATION:** Not Applicable

## 11. TOXICOLOGY INFORMATION

### PRODUCT TOXICOLOGY INFORMATION:

**SYMPTOMS AND SIGNS OF EXPOSURE:** May cause minor soreness or redness of eyes or mucous membranes.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** Unknown

**EMERGENCY AND FIRST AID PROCEDURES:** In case of contact, wash skin with copious amounts of water.  
Flush eyes with copious amounts of water for at least 15 minutes.  
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.  
Submit to medical examination.

**CARCINOGENICITY:** Not Applicable

**RTECS #:** AF1225000 (Acetic acid), SC7500000 (Perchloric acid)

**ACGIH TLV TWA:** No data found

**OSHA PEL:** 25mg/m<sup>3</sup> TWA (Acetic acid)

**NTP:** No data found

**IARC Monographs:** No data found

### HAZARDOUS COMPONENT TOXICOLOGY INFORMATION:

Hazardous Components:	Acetic Acid	Perchloric Acid
RTECS #	AF1225000	SC7500000
OSHA PEL	25 mg/m <sup>3</sup> TWA	No Data
ACGIH TLV	No Data	No Data
TOXICITY DATA	No Data	No Data



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## 12. ECOLOGICAL INFORMATION

No information is found on environmental toxicity for this compound.

## 13. DISPOSAL CONSIDERATIONS

Contact local hazardous materials or chemical waste disposal agency for regulations.

## 14. TRANSPORT INFORMATION

### IATA CLASSIFICATION:

**UN ID NUMBER:** UN 1760  
**PROPER SHIPPING NAME:** Corrosive liquid, n.o.s. (Acetic acid, Perchloric acid solution)  
**CLASS OR DIVISION:** 8  
**SUB RISK:**  
**HAZARD LABEL(S):** Corrosive  
**PACKAGING GROUP:** PG III  
**LIMITED QUANTITY PKG INSTRUCTION:** Y841  
**MAXIMUM LIMITED QUANTITY:** 1 L  
**SPECIAL PROVISIONS:**  
**ERG CODE:** 8L

## 15. REGULATORY INFORMATION

**PRODUCT RISK STATEMENTS:** R5, R8, R10, R35  
**PRODUCT SAFETY STATEMENTS:** S23, S26, S36, S45

## 16. OTHER INFORMATION