



# MATERIAL SAFETY DATA SHEET

**Product:****044138 IonPhor Anion PMA Buffer, 500 mL**

DIONEX Corporation  
 1228 Titan Way  
 P.O. Box 3603  
 Sunnyvale, California 94088-3603

Emergency Phone: 1-800-424-9300 (CHEMTREC)  
 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
<b>Eyes:</b>	Irritant	<b>HEALTH</b>	2	2
<b>Skin:</b>	Irritant	<b>FLAMMABILITY</b>	0	0
<b>Ingestion:</b>	Irritant	<b>REACTIVITY</b>	0	0
<b>Inhalation:</b>	Irritant	<b>NFPA SPECIAL</b>	-	-
		<b>HMIS PPE</b>		

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

HAZARDOUS COMPONENTS	Water	Pyromellitic Acid (PMA)	Sodium Hydroxide	Hexa methonium Hydroxide (HMOH)	Triethanol amine (TEA)
<b>PERCENT (%)</b>	99.87	0.06	0.03	0.02	0.02
<b>CAS NO.</b>	7732-18-5	89-05-4	1310-73-2	Not Found	102-71-6
<b>EINECS NO.</b>	231-791-2	201-879-5	215-185-5	Not Found	203-049-8
<b>RISKS</b>		R20/22, R36	R22, R35, R36	R22, R36	R22, R36
<b>SAFETY</b>		S20, S26, S36/37/39, S45	S20, S26, S36/37/39, S45	S20, S26, S36/37/39, S45	S20, S26, S36/37/39, 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:** Move to fresh air
- INGESTION:** If large amounts are swallowed, get medical help immediately. If patient is conscious, give large quantities of water

## 5. FIRE FIGHTING MEASURES

### UNUSUAL FIRE AND EXPLOSION:

### HAZARDS:

**EXTINGUISHING MEDIA:** Carbon Dioxide, Foam, Dry Chemical  
(Note: Carbon Dioxide is one of the decomposition products)

**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.  
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:** May cause irritation of eyes and mucous membranes

**CHRONIC:** Unknown

### 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

**ODOR:** None

**pH:** 7.7

**MOLECULAR WEIGHT:** N/A (mixture)

**MELTING POINT:** approximately 0 degree C

**BOILING POINT:** approximately 100 degrees C

### AUTOIGNITION TEMPERATURE:

**FLASH POINT:** Nonflammable

**LOWER EXPLOSION LIMIT:** Undetermined

**UPPER EXPLOSION LIMIT:** Undetermined

**SPECIFIC GRAVITY:** Approximately 1



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## 10. STABILITY & REACTIVITY

**STABILITY/CONDITIONS TO AVOID:** Stable

**INCOMPATIBILITY (MATERIALS TO AVOID):** Water-reactive materials

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Carbon Monoxide, Carbon Dioxide, and Nitrous Oxides.

**HAZARDOUS POLYMERIZATION:** Will not occur

## 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:** No data found

**RTECS #:** No data found

**ACGIH TLV TWA:** No data found

**OSHA PEL:** No data found

**NTP:** No data found

**IARC Monographs:** No data found

### HAZARDOUS COMPONENT TOXICOLOGY INFORMATION:

Hazardous Components:	Water	Pyromellitic Acid (PMA)	Sodium Hydroxide	Hexa methonium Hydroxide (HMOH)	Triethanol amine (TEA)
<b>RTECS #</b>	ZC0110000	DB9275000	9999999ZZ	Not Found	KL9275000
<b>OSHA PEL</b>	Not Found	Not Found	2 MG/M3	Not Found	Not Found
<b>ACGIH TLV</b>	Not Found	Not Found	C 2 MG/M3; 9293	Not Found	Not Found
<b>TOXICITY DATA</b>	None None	PIR-MUS LD50: 300 mg/kg No Data Found		No Data Found No Data Found	SKN-HMN: 15 mg/3D-I MLD ORL-RAT LD50: 8680 mg/kg



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## 12. ECOLOGICAL INFORMATION

No information is found on environmental toxicity for this solution

## 13. DISPOSAL CONSIDERATIONS

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

## 14. TRANSPORT INFORMATION

**IATA CLASSIFICATION: Not Regulated**

**UN ID NUMBER:** -  
**PROPER SHIPPING NAME:** -  
**CLASS OR DIVISION:** -  
**SUB RISK:** -  
**HAZARD LABEL(S):** -  
**PACKAGING GROUP:** -  
**LIMITED QUANTITY PKG INSTRUCTION:** -  
**MAXIMUM LIMITED QUANTITY:** -  
**SPECIAL PROVISIONS:** -  
**ERG CODE:** -  
**TRAINING:** -  
**VARIATIONS:** -

## 15. REGULATORY INFORMATION

**PRODUCT RISK STATEMENTS:** R36 Irritating to the eyes  
R37 Irritating to the respiratory system  
R38 Irritating to the skin

**PRODUCT SAFETY STATEMENTS:** S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice  
S36 Wear suitable protective clothing

## 16. OTHER INFORMATION