



# MATERIAL SAFETY DATA SHEET

**Product:**  
**040187 Combined Six Cation Standard-I, 50 mL**

DIONEX Corporation  
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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	Corrosive - Acid	NFPA	HMIS	
<b>Eyes:</b>	Corrosive	<b>HEALTH</b>	2	2
<b>Skin:</b>	Corrosive	<b>FLAMMABILITY</b>	0	0
<b>Ingestion:</b>	Corrosive	<b>REACTIVITY</b>	0	0
<b>Inhalation:</b>	Corrosive	<b>NFPA SPECIAL</b>	-	-
		<b>HMIS PPE</b>		

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS	Water	Hydrochloric Acid
<b>PERCENT (%)</b>	98.5	0.75
<b>CAS NO.</b>	7732-18-5	7647-01-0
<b>EINECS NO.</b>	231-791-2	231-595-7
<b>RISKS</b>		R22, R23, R35
<b>SAFETY</b>		S9, S22, 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:** Not Applicable
- HAZARDS:** Corrosive
- EXTINGUISHING MEDIA:** Not Applicable
- SPECIAL FIRE FIGHTING PROCEDURES:** Not Applicable

## 6. ACCIDENTAL RELEASE MEASURES

- Ventilate area.
- Wear appropriate protective clothing and eye protection.
- Contain spill.
- Neutralize, 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:** No  
**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:** 1  
**MOLECULAR WEIGHT:** N/A (mixture)  
**MELTING POINT:** Not Applicable  
**BOILING POINT:** Approximately 100 degrees C  
**AUTOIGNITION TEMPERATURE:** Not Applicable  
**FLASH POINT:** Nonflammable - 98.5 % Water  
**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):** Strong Bases

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Hydrogen chloride

**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:

<b>Hazardous Components:</b>	<b>Hydrochloric Acid</b>
<b>RTECS #</b>	MW4025000
<b>OSHA PEL</b>	C 5 PPM
<b>ACGIH TLV</b>	C 5 PPM; 9192
<b>TOXICITY DATA</b>	UNK-MAN LDLo: 81 MG/KG IHL-HMN LCLo: 1300 PPM/30M



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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: IATA Dangerous Goods

**UN ID NUMBER:** UN 1789  
**PROPER SHIPPING NAME:** Hydrochloric Acid  
**CLASS OR DIVISION:** 8  
**SUB RISK:** None  
**HAZARD LABEL(S):** Corrosive  
**PACKAGING GROUP:** PG III  
**LIMITED QUANTITY PKG INSTRUCTION:** Y819  
**MAXIMUM LIMITED QUANTITY:** 1 L  
**SPECIAL PROVISIONS:** None  
**ERG CODE:** 8L

## 15. REGULATORY INFORMATION

**PRODUCT RISK STATEMENTS:** R23 Toxic by inhalation  
R24 Toxic in contact with skin  
R25 Toxic if swallowed  
R34 Causes burns  
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  
S37 Wear suitable gloves  
S39 Wear eye/face protection  
S45 In case of accident or if you feel unwell, seek medical advice immediately

## 16. OTHER INFORMATION