



## **PART V, Health Hazard Information**

### **Applicable TLV's:**

Sulfuric Acid has an ACGIH TLV of 0.2mg/M3 (TWA, 2009 TLV Book). The OSHA PEL is 1/mg/M3 (TWA).

Platinum metal has a TLV of 1/mg/M3 (TWA, 2009 TLV Book) and an OSHA PEL of 1 mg/M3 (TWA).

### **Effects of Overexposure:**

#### **(Assuming direct contact with the electrolyte)**

Inhalation: Not expected in normal handling. Mist or vapor inhalation would be very irritating to nose, throat and upper respiratory tract. Can cause spasm, inflammation, chemical pneumonitis and pulmonary edema  
Ingestion: Can cause extreme irritation and burns to the mouth, throat and stomach.

Skin or Eyes: The electrolyte contacted directly could cause redness, pain, and burns to skin and eyes, blurred vision, and permanent damage.

Other: Sulfuric acid solution is damaging to all body tissues.

### **Emergency & First Aid Procedure:**

Eyes: Flush with copious amounts of water for 15 minutes including under eyelids. Obtain medical advice.

Skin: Flush affected area with water for at least 15 minutes. Remove contaminated clothing. Obtain medical attention if irritation persists.

Ingestion: Dilute with milk or water. Do not induce vomiting for electrolyte ingestion. Get medical attention.

Inhalation: Remove to fresh air. Give oxygen if breathing is difficult. Get medical attention.

## **PART VI, Reactivity Information**

### **Stability:**

The sensor electrolyte is a stable mixture with a useful shelf and service life of one year or more. Hazardous polymerization is not known to occur.

### **Conditions to Avoid:**

Store away from combustibles and alkalines. Keep away from sources of heat, spark or flame. Store in a cool dark place.

### **Hazardous Decomposition Products:**

None Known.

**PART VII, Spill, Leak & Disposal Procedures**

**Spills Procedure:**

Spills are not anticipated with sealed sensors. Leaking sensors should be rinsed with lots of water and taken out of service. See first aid section for skin contact.

**Disposal Procedure:**

Sensor contains noble metals and must be disposed by licensed disposal firm. Follow federal, state and local regulations for disposing of small scale chemicals.

**PART VIII, Special Protection Information**

**Protective Equipment:**

Use safety glasses when handling sensors. Leaking sensors should be handled with chemical resistant gloves and taken out of service.

**PART IX, Special Precautions & Comments**

**Handling & Storage:**

Store in a cool, dry place away from sources of light, heat and spark. Store away from comustibles and alkalines.

Store away from organic solvent vapors, which may cause physical damage to the body of the sensor.

**Other Precautions:**

Wash hands after handling sensors especially before eating, drinking and applying cosmetics or contact lenses.

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