## Majerial Safety Data Street

Product Name:

Micro-Fuel Cells

Mini-Micro-Fuel Cells, all classes Super Cells, all classes except T-5x

Oxygen Sensors, all classes.

Manufacturer:

TELEDYNE ELECTRONIC TECHNOLOGIES

Sensor Technologies

Address:

16830 Chestnur Street, City of Industry, CA 91749

Phone:

(818) 961-9221

Date Prepared or Last Revised: 08/08/91

Emergency Phone Number:

(818) 961-9221

#### Section: II — Physical and Chemical Data

Chemical and Common Names: Potassium Hydroxide (KOH), 15% (w/v)

Granular Lead (Pb), pure

CAS Number:

KOH 1310-58-3

Pb 7439-92-1

KOH

Pb

Melting Point/Range:

10 to 0 °C

328 °C

Boiling Point/Range:

100 to 115 °C

1744 °C

Specific Gravity:

1.09 @ 20 °C

11.34

pH:

≥15

N/A

Solubility in Water:

Completely soluble

Insoluble

Percent Volatiles by Volume:

None

N/A

## Section III - Physical Hazards

Potential for fire and explosion: The electrolyte in the Micro-Fuel Cells is not flammable. There are no fire or explosion hazards associated with Micro-Fuel Cells.

Potential for reactivity: The sensors are stable under normal conditions of use. Avoid contact between the sensor electrolyte and strong acids.

#### Section W-Health Hazard Data

Primary route of entry: Ingestion, eye/skin contact

Exposure limits: OSHA PEL: 05 mg/cu.m. (Pb)

ACGIHTLV: 2 mg/cu.m. (KOH)

Effects of overexposure

Ingestion: The electrolyte could be harmful or fatal if swal-

lowed.

Oral LD50 (RAT) = 3650 mg/kg

Eye: The electrolyte is corrosive; eye contact could result

in permanent loss of vision.

Dermal: The electrolyte is corrosive; skin contact could result

in a chemical burn.

Inhalation: Liquid inhalation is unlikely.

Signs/symptoms of exposure: Contact with skin or eyes will cause a burning sensa-

tion and/or feel soapy or slippery to touch.

Medical conditions

aggravated by exposure: None

Carcinogenity: NTP Annual Report on Carcinogens: Not listed

EATTA WIOMOStapus. 1701 HSIEU

OSHA: Not listed

Other health hazards: Lead is listed as a chemical known to the State of

California to cause birth defects or other reproduc-

tive harm.

# Section: Vi-Emergency and First Aid Procedures

Eye Contact: Flush eyes with water for at least 15 minutes and get immediate

medical attention.

Skin Contact: Wash affected area with plenty of water and remove contaminated

clothing. If burning persists, seek medical attention.

Ingestion: Give plenty of cold water. Do not induce vomiting. Seek medical at-

tention.

Inhalation: Liquid inhalation is unlikely.

# Section: VII—Elandling Information.

NOTE: The oxygen sensors are sealed, and under normal circumstances, the contents of the sensors do not present a health hazard. The following information is given as a guide in the event that a cell leaks.

Protective clothing: Rubber gloves, chemical spiash goggles.

Clean-up procedures: Wipe down the area several times with a wet paper towel.

Use a fresh towel each time.

Protective measures

during cell replacement: Before opening the bag containing the sensor cell, check the

sensor cell for leakage. If the sensor cell leaks, do not open the bag. If there is liquid around the cell while in the instrument, put on gloves and eye protection before removing the

cell.

Disposal: Should be in accordance with all applicable state, local and

federal regulations.

NOTE: The above information is derived from the MSDS provided. The information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. TELEDYNE ELECTRONIC TECHNOLOGI,ES Sensor Technologies shall not be held liable for any damage resulting from handling or from contact with the above product.