

Material Safety Data Sheet (MSDS)

Product Identification

Product Name Oxygen Sensor Series – OKS Medical Sensor series

Synonyms Precision Electrochemical Sensor

Manufacturer Southland Sensing Ltd, 4045 E. Guasti Rd. Suite 203 Ontario, CA 91761

Emergency Phone Number 1-949-398-2879 Preparation / Revision Date April 23rd, 2016

Notes Oxygen sensors are sealed, contain protective coverings and in normal

conditions do not present a health hazard.

Information applies to electrolyte unless otherwise noted.

Specific Generic Ingredients

Carcinogens at levels > 0.1% None

Others at levels > 1.0% Potassium Hydroxide or Acetic Acid, Lead

CAS Number Potassium Hydroxide = KOH 1310-58-3 or Acetic Acid = 64-19-7, Lead =

Pb 7439-92-1

General Requirements

Use Potassium Hydroxide or Acetic Acid - electrolyte, Lead - anode

Handling Rubber or latex gloves, safety glasses

Storage Indefinitely

Physical Properties

Boiling Point Range KOH = 100 to 115 C or Acetic Acid = 100 to 117 C Melting Point Range KOH -10 to 0 C or Acetic Acid - NA, Lead 327 C Freezing Point KOH = -40 to -10 C or Acetic Acid = -40 to -10 C Molecular Weight KOH = 56 or Acetic Acid - NA, Lead = 207 KOH = 1.09 @ 20 C, Acetic Acid = 1.05 @ 20 C Vapor Pressure KOH = NA or Acetic Acid = 11.4 @ 20 C

Vapor Density KOH - NA or Acetic Acid = 2.07

pH KOH > 14 or Acetic Acid = 2-3

Solubility in H2O Complete % Volatiles by Volume None

Evaporation Rate Similar to water

Appearance and Odor Aqueous solutions: KOH = Colorless, odorless or Acetic Acid = Colorless,

vinegar-like odor

Fire and Explosion Data

Flash and Fire Points
Flammable Limits
Extinguishing Method
Special Fire Fighting Procedures

Not applicable
Not applicable
Not applicable

Reactivity Data

Stability Stable Conditions Contributing to Instability None

Incompatibility KOH = Avoid contact with strong acids or Acetic Acid = Avoid contact

with strong bases

Hazardous Decomposition Products KOH = None or Acetic Acid = Emits toxic fumes when heated

Conditions to Avoid KOH = None or Acetic Acid = Heat

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Spill or leak

Eye

Steps if material is released Sensor is packaged in a sealed plastic bag, check the sensor inside for

electrolyte leakage. If the sensor leaks inside the plastic bag or inside an analyzer sensor housing do not remove it without rubber or latex gloves,

safety glasses, and a source of water. Flush or wipe all surfaces repeatedly with water or a wet paper towel (fresh each time). Dispose in accordance with federal, state, and local regulations.

Health Hazard Information

Primary Route(s) of Entry Ingestion, eye and skin contact

Exposure Limits Potassium Hydroxide - ACGIH TLV 2 mg/cubic meter or Acetic Acid -

ACGIH TLV / OSHA PEL 10 ppm (TWA), Lead - OSHA PEL .05 mg/cubic

meter

Ingestion Electrolyte could be harmful or fatal if swallowed. KOH = Oral LD50

(RAT) = 2433 mg/kg or Acetic Acid = Oral LD50 (RAT) = 6620 mg/kg

Electrolyte is corrosive and eye contact could result in permanent loss of

vision.

Skin Electrolyte is corrosive and skin contact could result in a chemical burn.

Inhalation Liquid inhalation is unlikely.

Symptoms Eye contact - burning sensation. Skin contact - slick soapy feeling.

Medical Conditions Aggravated None

Carcinogenic Reference Data KOH and Acetic Acid = NTP Annual Report on Carcinogens - not listed;

LARC Monographs - not listed; OSHA - not listed

Other Lead is listed as a chemical known to the State of California to cause birth

defects or other reproductive harm.

Special Protection

Ventilation Requirements None

Eye Safety glasses

Hand Rubber or latex gloves

Respirator Type Not applicable

Other Special Protection None

Special Precautions

Precautions Do not remove the sensor's protective Teflon and PCB coverings. Do not

probe the sensor with sharp objects. Wash hands thoroughly after

handling. Avoid contact with eyes, skin, and clothing. Empty sensor body may contain hazardous residue.

Transportation Not applicable

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