

## MATERIAL SAFETY DATA SHEET

PART NUMBER: 9160489  
IDENTITY: ELECTROLYTE, O<sub>2</sub> SENSOR  
MANUFACTURER: ROSEMOUNT ANALYTICAL INC.  
ADDRESS: 2400 BARRANCA PARKWAY  
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(1-800-424-9300 24 Hr. CHEMTREC/ CODE: RANA)

DATE REVISED: 01/26/11  
PREPARED BY: R. MORRISON  
REVISED BY: T. PHILLIPS

### SECTION 1--MATERIAL IDENTIFICATION AND INFORMATION

COMPONENTS	CAS #	%	OSHA PEL	ACGIH TLV	OTHER LIMIT RECOMMENDED
POTASSIUM HYDROXIDE	1310-58-3	1-5			
NON-HAZARDOUS INGREDIENTS		95-99			
TOTAL		100			

No health hazard or other information is available for the solution of the mixture. The following sections are based on information obtained from <http://www.jtbaker.com/msds/englishhtml/P5884.htm> and our best scientific understanding of the solution.

### SECTION 2--PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT near 100°C  
SPECIFIC GRAVITY (H<sub>2</sub>O = 1) near 1.1 g/ml  
VAPOR PRESSURE (mm Hg/TEMPERATURE) not available  
MELTING POINT not available  
VAPOR DENSITY (AIR = 1) not available  
EVAPORATION RATE ( = 1) not available  
SOLUBILITY IN WATER soluble  
WATER REACTIVE no  
APPEARANCE AND ODOR colorless and odorless

### SECTION 3--FIRE AND EXPLOSION HAZARD DATA

FLASH POINT AND METHOD USE aqueous solution, not applicable  
AUTO IGNITION TEMPERATURE aqueous solution, not applicable  
FLAMMABILITY LIMITS IN AIR BY VOLUME  
LEL aqueous solution, not applicable  
UEL aqueous solution, not applicable

EXTINGUISHER MEDIA to suit environment

SPECIAL FIRE FIGHTING PROCEDURE non-combustible

UNUSUAL FIRE AND EXPLOSION HAZARD: hydrogen may form upon contact with light metals (danger of explosion)

### SECTION 4--REACTIVITY HAZARD DATA

STABILITY STABLE X UNSTABLE\_\_  
CONDITIONS TO AVOID: contact with aluminum or zinc: formation of hydrogen; ammonium compounds : releases ammonia

INCOMPATIBILITY MATERIALS TO AVOID: aluminum, tin, and zinc  
HAZARDOUS DECOMPOSITION PRODUCTS: none  
HAZARDOUS POLYMERIZATION: MAY OCCUR\_\_ WILL NOT OCCUR\_X  
HAZARDOUS POLYMERIZATION CONDITIONS TO AVOID: not applicable

**SECTION 5--HEALTH HAZARD DATA**

9160489

PRIMARY ROUTES OF ENTRY: INHALATION\_\_ SKIN ABSORPTION X  
INGESTION X NOT HAZARDOUS\_\_

CARCINOGEN LISTED: NTP\_\_ IRAC\_\_ OSHA\_\_ NOT LISTED X

**HEALTH HAZARDS**

ACUTE: can cause burns to skin

CHRONIC:

SIGNS AND SYMPTOMS OF EXPOSURE: burning, irritation

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: not available

EMERGENCY FIRST AID PROCEDURES:

EYE CONTACT: flush with water for fifteen minutes, see physician

SKIN CONTACT: flush area with water for fifteen minutes, immediately remove contaminated clothing

INHALATION: remove to fresh air

INGESTION: make victim drink large quantities of water. Avoid vomiting. Do not attempt to neutralize. Summon physician.

**SECTION 6--CONTROL AND PROTECTIVE MEASURES**

RESPIRATORY PROTECTION (SPECIFY TYPE): N/A

PROTECTIVE GLOVES: YES

EYE PROTECTION: YES

VENTILATION TO BE USED

LOCAL EXHAUST:

MECHANICAL (GENERAL): N/A

SPECIAL OTHER (SPECIFY): N/A

PROTECTIVE CLOTHING AND EQUIPMENT: eye and hand protection required

HYGIENIC WORK PRACTICES: immediately change contaminated clothing. Apply skin-protective barrier cream.

**SECTION 7--PRECAUTIONS FOR SAFE HANDLING AND USE/LEAK PROCEDURES**

STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED: render harmless by neutralization with dilute acid. Clean up affected area with water.

WASTE DISPOSAL METHODS: neutralize with dilute acid and dilute with water

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: store in tightly closed polyethylene or polypropylene container

OTHER PRECAUTIONS AND/OR SPECIAL HAZARDS: This is only a 1-5% solution. The numbers below indicate the dangers of a 100% solution, and/or KOH in its dry form.

RATING:

HEALTH 3

FLAMMABILITY 0

REACTIVITY 2

SPECIFIC 4contact