



Manufacturer Info
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MATERIAL SAFETY DATA SHEET

Product: Oxygen Cell

1. COMPOSITION, INFORMATION OR INGREDIENTS

<u>Contents</u>	<u>Composition (wt. %)</u>
Potassium Hydroxide	21.5
Sodium Alginate	1.2
Ethylenediamine tetracetic acid disodium salt	2.4
Ethylene Glycol	21.3
Water	53.6

2. HAZARDOUS IDENTIFICATION

<u>Common Name</u>	<u>CAS No</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Potassium Hydroxide, solution (KOH)	1310-58-3	2 mg/m3	2 mg/m3
Ethylene Glycol HOCH2CH2OH	107-21-1	None	

Regulatory Lists

Carcinogenicity: NO
EHS: NO
CERCLA: YES
SARA 313 Toxic Chemical: NO
TSCA Inventory: YES

WARNING: Leaking cell may cause chemical burns. Do not get in eyes, on skin or on clothing.

Routes of Exposure: Skin, eyes, inhalation, ingestion

Target organs: Eyes, skin, respiratory system, lungs, gastrointestinal tract

Effects of Overexposure (acute & chronic):

Acute: Severe burns, permanent eye damage, severe irritation, ulceration of mucous membranes

Chronic: lung damage



3. FIRST AID MEASURES

Ingestion: Call a physician. Do not induce vomiting. Give large amounts of water. Follow with diluted vinegar or fruit juice

Inhalation: Provide fresh air or oxygen

Respiration: If breathing is difficult, give oxygen

Eye: Immediately flush with water for 15 minutes

Skin: Immediately flush with water

Medical Conditions Generally Aggravated by Exposure: Dermatitis

Wash contaminated clothing before reuse

4. FIRE FIGHTING MEASURES

Flash Point: 230° F

NFPA 704M rating: 3-0-0

LEL: 15.3%

UEL: 3.2%

Extinguishing Media: Water spray, carbon dioxide, dry chemical powder or appropriate foam

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual Fire and Explosion Hazards: Emits toxic fumes under fire conditions.

5. SPILL AND DISPOSAL PROCEDURES

Steps to be taken in case material is released or spilled: Wear appropriate protective clothing, absorb spilled material with absorbent materials suitable for corrosives (pH = 13) and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

Waste Disposal Method: Dispose in accordance with all applicable federal, state, and local regulations.

6. HANDLING AND STORAGE

Handling Precautions: Use safe chemical handling procedures. Wash hands after handling. Do not breath vapor. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling

Storage Precautions: Suitable for general storage. Isolate from incompatibles.

7. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Respiratory Protection: Wear appropriate NIOSH/OSHA approved respirator

Ventilation: Recommended

Eye/Skin Protection:

Skin: neoprene gloves, apron recommended

Eye: safety goggles recommended



8 PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: 180 degrees C
Melting Point: 360 degrees C
Specific Gravity: 1.5
Physical State: Liquid

Vapor Pressure: 0.05
Vapor Density: 2.0
Solubility: Appreciable
Evaporation Rate: 0.01

Appearance: Colorless
Odor: Odorless
U. E. L.: 15.3%
L. E. L.: 3.2%

9 STABILITY AND REACTIVITY

Stability: Stable

Conditions to avoid: Excessive heat

Incompatible materials: Strong acids, strong oxidizers, chemically active metals, sulfuric acid, nitric acid, polymerization catalysts, strong bases

Hazardous Decomposition or Byproducts: Hydrogen, Carbon Monoxide, Carbon Dioxide

Hazardous Polymerization: Will not occur

10. TOXICOLOGICAL INFORMATION

Acute Effects: Harmful if swallowed, inhaled, or absorbed through skin. Vapor or mist is irritating to the eyes, mucous membranes upper respiratory tract. Causes skin irritation. May cause nervous system disturbances.

Prolonged exposure can cause: Nausea, headache and vomiting

Chronic Effects: May cause reproductive disorders.

Target Organs: Liver, kidneys,, central nervous system

11. OTHER INFORMATION

The information in this material safety data sheet meets the requirements of 29 CFR 1910.1200. It is intended only as a guide to the appropriate precautionary handling of the material by a person trained in, or supervised by a person trained in, hazardous materials handling. The employer is responsible for determining the precautions and dangers of this material for specific applications of the product.

This product has not been tested as a whole by RKI Instruments Inc. Information is provided, at a minimum, on constituents which have been determined to be health hazards, and which comprise 1% or greater of the composition, except that substances identified as carcinogens shall be listed if the concentrations are 0.1% or greater.

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