

# Safety Data Sheet

## POTASSIUM HYDROXIDE

### Section 1 - Chemical Product and Company Identification

**MSDS Name:** Potassium Hydroxide.

**Catalog Numbers:** SO-859

**Company Identification:** ROWLEY BIOCHEMICAL  
10 ELECTRONICS AVENUE  
DANVERS, MA 01923

**For information, call:** 978-739-4883

**Emergency Number:** 800-424-9300

**For CHEMTREC assistance, call:** 800-424-9300

### Section 2 - Hazards Identification

## GHS Classifications

### Health Hazards

H301 **Acute Oral Toxicity:** 3

H332 **Acute Toxicity Inhalation:** 4

H314 **Skin Corrosion/ Skin Irritation:** 1B

H320 **Eye Damage/ Irritation:** 1

H373-**Specific Target Organ Toxicity RE:** 2

### Physical Hazards

H290-**Corrosive to Metals:** 1

### Environmental Hazards

H402 **Chronic Environmental Hazards:** 3

## Pictograms or Hazard Symbols and Hazard Statement



Danger: Toxic if swallowed.



Warning: Harmful if inhaled



Danger: Causes severe skin burns and eye damage.  
May be corrosive to metals.



Warning: May cause damage to organs.(RE) ( Lung )

## Precautionary Statement Prevention

### H290

**P234**-Keep only in original container.

**P390**-Absorb spillage to prevent material damage.

**P406**-Store in corrosive resistant/container with a resistant inner liner

### H301

**P264** Wash thoroughly after handling.

**P270** Do not eat, drink, or smoke when using this product.

**P301 + P310** IF SWALLOWED: Immediately call a POISON CENTER or doctor.

**P330** **Rinse Mouth.**

**P405** Store locked up.

**P501** Dispose of contents/container in accordance with local/regional/national/international regulations.

### H314

**P260** Do not breathe fume/gas/mist/vapors.

**P264** Wash thoroughly after handling.

**P280** Wear protective gloves, clothing, and eye and face protection.

**P301 + P330 + P331** If swallowed, rinse mouth. Do not induce vomiting.

**P303 + P361 + P353** If on skin (or hair) take off immediately all contaminated clothing. Rinse skin with water.

**P363** Wash contaminated clothing before reuse.

**P304 + P340** If inhaled, remove person to fresh air and keep comfortable for breathing.

**P310** Seek medical assistance if exposed.

**P405** Store locked up.

**P305 + P351 + P338** If in eyes, rinse cautiously with water for several minutes.

**P501** Dispose of contents/container in accordance with local/regional/national/international regulations.

### H320

**P264** Wash thoroughly after handling.

**P305+P351+P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**P337+P313** If eye irritation persists: Get medical advice/attention.

H332

**P261** Avoid breathing fumes/mist/vapors.

**P304 + P340** If inhaled, remove person to fresh air and keep comfortable for breathing.

1 Use only outdoors or in a well-ventilated area.

**P312** Call a physician if you feel unwell.

Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent
1310-58-3	Potassium Hydroxide	100

Section 4 - First Aid Measures

**Eye Exposure:** In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

**Dermal Exposure:** In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes.

**Oral Exposure:** If Swallowing seek immediate medical advice.

**Inhalation Exposure:** If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

Section 5 - Fire Fighting Measures

**NFPA** HEALTH **3** FLAMMABILITY **0** REACTIVITY **1**

Firefighters should wear proper protective clothing and self contained breathing apparatus with full piece operated in positive pressure mode to prevent contact with skin and eyes. Water may be ineffective in fighting fire. Use water spray to keep for exposed containers cool.

**Extinguishing Media:** Use water spray, dry chemical powder, or appropriate foam.

**Flash Point:** N/A

**Auto ignition Temperature:** N/A

**Explosion Limits:** N/A

**Upper:** N/A

## Section 6 - Accidental Release Measures

### **Procedure(s) of Personal Precaution(s):**

Wear protective gear.

**Methods for Cleaning up:** Absorb with sand, earth or vermiculite. Carefully sweep up and containerize for proper disposal.

## Section 7 - Handling and Storage

Do not breathe dust. Avoid contact with eyes. Wear suitable protective clothing. In case insufficient ventilation, wear suitable respiratory equipment. Keep container tightly closed. Keep container in a cool, well-ventilated area. Keep away from incompatibles such as organic material, metals acids, moisture. Do not store above 23 deg. C (73F).

## Section 8 - Exposure Controls, Personal Protection

### **Engineering Controls:**

Mechanical exhaust

### **Personal Protective Equipment:**

Other: Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other protective clothing.

## Section 9 - Physical and Chemical Properties

**Physical State:** Solid pellets.

**Odor:** Odorless

**Taste:** N/A

**Molecular Weight:** 56.11 g/mole

**Chemical Formula:** KOH

**Color:** White

**pH:** 13

**Melting Point:** 380 deg. C

**Specific Gravity:** 2.044

**Boiling Point:** 1384 deg. C (Decomposition temp)

**Solubility:** Easily soluble in cold water, hot water.

## Section 10 - Stability and Reactivity

**Incompatibility with various substances:** Highly reactive with acids. Reactive with organic materials, metals, moisture.

**Chemical Stability:** Use care when handling. Avoid contact with skin, eyes and clothing. Store at room temperature.

**Hazardous Decomposition Products:** not known

**Hazardous Polymerization:** Will not occur.

## Section 11 - Toxicological Information

**CAS#** 1310-58-3

**LD50/LC50:**

Acute oral toxicity (LD50): 273 mg/kg Rat.

**Carcinogenicity:**

CAS#1310-58-3 : Not listed by ACGIH, IARC, NTP, or CA Prop 65.

**Human Toxicity: Extremely hazardous in case of inhalation (lung corrosive) Skin (Corrosive) Eye (Corrosive)**

## Section 12 - Ecological Information

**Ecotoxicity:** LC50: 80 mg/l 24 hours

The product of degradation are less toxic than the product itself.

## Section 13 - Disposal Considerations

**Appropriate method of disposal of substance or preparation:**

Handled as hazardous waste and sent to an RCRA approved incinerator or disposed in an RCRA approved waste facility.

## Section 14 – Transport Information

**DOT**

Class 8: Corrosive material

**Identification:** Potassium Hydroxide, solid UNNA: 1813 PG: II

**Special Provisions for Transport:** Not available.

## Section 15 - Regulatory Information

### Canada Regulatory Information

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

### European/International Regulations

#### European Labeling in Accordance with EC Directives

#### Risk Phrases:

R/21/22 Harmful in contact with skin and if swallowed  
R36/38 Irritating to eyes and skin

#### Safety Phrases:

S3/7/9 Keep container closed in a cool, well-ventilated place  
S24/25 Avoid contact with skin and eyes  
S20/21 When using do not eat, drink or smoke  
S2 Keep out of the reach of children.  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice  
S28 After contact with skin, wash immediately with plenty of soap and water  
S37/39 Wear suitable gloves and eye/face protection

## Section 16 - Additional Information

**MSDS Creation Date:** 1/8/2010

**Revision #1** RC 12/2/14

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