

# SAFETY DATA SHEET

## POTASSIUM HYDROXIDE 10%

### Section 1 - Chemical Product and Company Identification

**SDS Name:** Potassium Hydroxide 10%  
**Catalog Numbers:** SO-412 F-393-1B  
**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

H302-Acute Oral Toxicity: 4  
H315-Skin Corrosion/Skin Irritation: 2  
H320-Eye damage/Irritation: 2B

##### PHYSICAL HAZARDS

H290-Corrosive to Metals: 1

##### ENVIRONMENTAL HAZARDS

**Aquatic acute environmental Hazards:** Not classified  
**Chronic environmental Hazards:** Not classified

**Pictograms or Hazard symbols and Hazard statement.**



Warning: Causes skin irritation.  
Causes eye irritation.  
Harmful If swallowed.

## Precautionary Statement

H315

**P264**-Wash thoroughly after handling.

**P280**-Wear protective gloves.

**P302+P352**-IF ON SKIN: Wash with plenty of soap and water.

**P332+P313**-If skin irritation occurs: Get medical advice/attention.

**P362**-Take off contaminated clothing and wash before reuse

H320

**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.

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.

H302

**P264** Wash thoroughly after handling.

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

**P301 + P312** If swallowed, call a physician if you feel unwell.

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

**P330** Rinse mouth.

### Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent
1310-58-3	Potassium Hydroxide	10 w/v
7732-18-5	Water	100 v/v

### 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

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.

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

**Flash Point:** N/A

**NFPA Rating:** (estimated) Health: 1; Flammability: 0; Instability: 0

#### 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

Use care when handling. Wash thoroughly after handling. Store capped at room temperature. Keep away from incompatible materials.

#### Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:** Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

**Personal Protective Equipment**

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

## Section 9 - Physical and Chemical Properties

**Physical State:** Liquid  
**Appearance:** Clear  
**Odor:** Odorless  
**pH:** 13.5 (0.1 molar solution)  
**Vapor Pressure:** 1.0 @ 714C (1317F)  
**Vapor Density:** No information found.  
**Evaporation Rate:** N/A  
**Viscosity:** N/A  
**Boiling Point:** 1320C (2408F)  
**Solubility:** 52.8% in water @ 20C (68F)

## Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under ordinary conditions of use and storage. Heat and sunlight can contribute to instability.  
**Conditions to Avoid:** Heat, freezing.  
**Incompatibilities with Other Materials:** Chromic Acid, ethylene glycol, perchloric acid, phosphorous trichloride, oxidizers, sodium peroxide, strong caustics, most metals (except aluminum), carbonates, hydroxides, oxides, and phosphates.  
**Hazardous Decomposition Products:** Carbon monoxide, irritating and toxic fumes.  
**Hazardous Polymerization:** Will not occur.

## Section 11 - Toxicological Information

**RTECS#:**

**LD50/LC50:**

CAS#1310-58-3

Rat, oral LD50: 273 mg/kg

**Carcinogenicity:**

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

## Section 12 - Ecological Information

**Ecotoxicity:**

**CAS#1310-58-3**

(LC50) 80 mg/ 24H [Mosquito Fish]

**Environmental:** When released into the air, this material may be moderately degraded by reaction with photochemically produced hydroxyl radicals.

**Physical:** No information available.

**Other:** No information available.

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**

Proper Shipping Name: Potassium Hydroxide (Corrosive)

Hazard class: 8

UN/NA: UN1814

Packing Group: 11

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:**

R22 Harmful by inhalation, in contact with skin and if swallowed

R36/38 Irritating to eyes and skin

**Safety Phrases:**

S20/21 When using do not eat, drink or smoke

S2 Keep out of the reach of children.

S 7 Keep container tightly closed.

S 9 Keep container in a well-ventilated place

Section 16 - Additional Information

**MSDS Creation Date:** 10/15/12

**Revision #1. YM 4/23/2014 co-sign RC**

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