

# SAFETY DATA SHEET

## Sodium Hydroxide 3% Aqueous

### Section 1 - Chemical Product and Company Identification

**SDS Name:** Sodium Hydroxide, 3% Aqueous  
**Catalog Numbers:** SO-741, A-112-5  
**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

H290-Corrosive to metals: 1  
H302-Acute toxicity, oral: 4  
H314-Skin corrosion/irritation: 1A  
H318-Serious eye damage/eye irritation: 1

#### Pictograms or Hazard symbols and Hazard statement(s):



Signal Word: Danger

#### Hazard Statements:

H290-May be corrosive to metals  
H302-Harmful if swallowed  
H314-Causes severe skin burns and eye damage  
H318-Causes serious eye damage

## Precautionary Statements:

P234-Keep only in original container.

P260-Do not breathe dusts or mists.

P264-Wash thoroughly after handling.

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

P280-Wear protective gloves/protective clothing/eye protection/face protection.

P301+P312-If swallowed: Call a Poison Center or doctor/physician if you feel unwell.

P301+P330+P331-If swallowed: Rinse mouth. Do not induce vomiting.

P303+P361+P353-If on skin (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340-If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338-If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310-Immediately call a Poison Center or doctor/physician.

P330-Rinse mouth.

P363-Wash contaminated clothing before reuse.

P390-Absorb spillage to prevent material damage.

P405-Store locked up.

P406-Store in corrosive resistant container with a resistant inner liner.

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

### Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent
1310-73-2	Sodium Hydroxide	3.0 w/v
7732-18-5	Water	Balance

### 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: 2; Flammability: 0; Instability: 0

**Special Remarks on Fire Hazards:** When heated to decomposition it may emit irritating gases and vapors.

## 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

**Vapor Pressure:** No information available

**Odor threshold:** No information available

**Vapor Density:** No information available

**pH:** approx. 13.5

**Relative density:** No information available

**Melting point/freezing point:** No information available

**Solubility:** soluble in water

**Boiling Point:** No information available

**Flash point:** No information available

**Evaporation Rate:** No information available

**Flammability (solid, gas):** No information available  
**Partition coefficient: n-octanol/water:** No information available  
**Auto-ignition temperature:** No information available  
**Decomposition temperature:** No information available  
**Viscosity:** No information available

## Section 10 - Stability and Reactivity

**Chemical Stability:** The product is stable under normal conditions.  
**Conditions to Avoid:** Heat, incompatible materials.  
**Incompatibilities with Other Materials:** Acids, Metals, Oxidizing Agents, Reducing Agents, Bases, Aldehydes.  
**Hazardous Decomposition Products:** Sodium oxides.  
**Hazardous Polymerization:** Will not occur.

## Section 11 - Toxicological Information

**RTECS#: Sodium Hydroxide CAS#1310-73-2: WB4900000**

**LD50/LC50: Sodium Hydroxide CAS#1310-73-2:**

Skin, rabbit: 500 mg/24 hr severe

Eye, rabbit: 50 ug/24 hr, investigated as a mutagen

**Carcinogenicity:**

**Sodium Hydroxide CAS#1310-73-2:**

Not listed by ACGIH, IARC, NTP, or CA Prop 65.

## Section 12 - Ecological Information

**Sodium Hydroxide CAS#1310-73-2:**

**Ecotoxicity:** LC50 45.4 mg/L, 96 hr static freshwater fish (*Oncorhynchus mykiss*)  
EC50 40.4 mg/L, 48 hr water flea (*Ceriodaphnia*)

**Environmental:** No information available.

**Physical:** No information available.

**Other:** No information available.

## Section 13 - Disposal Considerations

**DISPOSAL:** Dispose of in accordance with all federal, state, and local regulations.

## Section 14 - Transport Information

**DOT**

Non-Regulated

## Section 15 - Regulatory Information

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

Section 16 - Additional Information
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**SDS Creation Date:** 2-25-19

Revision 1: 10-7-21

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