



Emergency Contact (24 hr) -- CHEMTREC®  
 Domestic: 800-424-9300  
 International: 703-527-3887

SODIUM HYDROXIDE SOLUTIONS, >4.0 Normal, >16.3% (w/v), >14.2% (w/w) Aq Solutions

# Material Safety Data Sheet

## Section 1: Chemical Product and Company Identification

### Catalog Number:

BDH0046, BDH0048, BDH0066, BDH0068, BDH0070, BDH0072

### Product Identity:

SODIUM HYDROXIDE SOLUTIONS, >4.0 Normal, >16.3% (w/v), >14.2% (w/w) Aqueous Solutions

### Manufacturer's Name:

RICCA CHEMICAL COMPANY LLC

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### CAGE Code: 0V553

### Address:

448 West Fork Dr  
 Arlington, TX 76012

### Telephone Number For Information:

817-461-5601

### Date Prepared:

11/01/2006

### Revision: 0

Last Revised: 11/01/2006

## Section 2. Composition/Information on Ingredients

Component	CAS Registry #	Concentration	ACGIH TLV	OSHA PEL
Sodium Hydroxide	1310-73-2	>14.2	Not Available	Not Available
			C 2 mg/m3	2 mg/m3
Water, Deionized	7732-18-5	Balance	Not Available	Not Available
			Not Available	Not Available

## Section 3: Hazard Identification

**Emergency Overview:** CAUTION! Corrosive. Causes severe burns. May be fatal if swallowed. Harmful if inhaled. Wash areas of contact with water for at least 15 minutes. Call a physician if irritation develops. If ingested, dilute with water and call a physician. Do not induce vomiting. For eyes, flush out with plenty of water for at least 15 minutes. Call a physician. Reacts violently with acids.

**Target Organs:** eyes, skin, respiratory system.

**Eye Contact:** Corrosive! Causes irritation and burns. Can cause burns that may lead to permanent impairment of vision, including blindness.

**Inhalation:** Effects from inhalation of mist vary from mild irritation to serious damage of the upper respiratory tract, depending on severity of exposure.

**Skin Contact:** Causes severe burns.

**Ingestion:** Causes burns of the mouth, throat and stomach. Symptoms may include bleeding, vomiting, diarrhea, fall in blood pressure.

**Chronic Effects/Carcinogenicity:** Repeated exposures to Sodium Hydroxide solutions has a destructive effect on tissue.

IARC - No.

NTP - No.



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OSHA - No.

**Reproductive Information:** Not Applicable.

**Teratology (Birth Defect) Information:** Mutation data cited in 'Registry of Toxic Effects of Chemical Substances' for Sodium Hydroxide.

#### Section 4: First Aid Measures - In all cases, seek qualified evaluation.

**Eye Contact:** Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops.

**Inhalation:** Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen.

**Skin Contact:** Flush with plenty of water for at least 15 minutes. Call a physician if irritation develops.

**Ingestion:** Dilute with water or milk. Do not induce vomiting. Call a physician if necessary.

#### Section 5: Fire Fighting Measures

**Flash Point:** Not Available.

**Method Used:** Not Available.

**LFL:** Not Available.

**UFL:** Not Available.

**Extinguishing Media:** Use any means suitable for extinguishing surrounding fire. Adding water to caustic solutions will generate a large amount of heat.

**Fire & Explosion Hazards:** Not considered to be a fire or explosion hazard. May react with metals to release flammable Hydrogen gas.

**Fire Fighting Instructions:** Use normal procedures/instructions.

**Fire Fighting Equipment:** Use protective clothing and breathing equipment appropriate for the surrounding fire.

#### Section 6: Accidental Release Measures

Collect liquid and dilute with water. Neutralize with dilute acid solutions. Release to drain if local regulations allow. For larger spills, absorb with suitable material (vermiculite, clay, etc.). Collect the solid residue and save for disposal.

#### Section 7. Handling and Storage

As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage. Do not mix with acids.

**Safety Storage Code:** Corrosive

#### Section 8: Exposure Control/Personal Protection

**Engineering Controls:** No specific controls are needed. Normal room ventilation is adequate.

**Respiratory Protection:** Normal room ventilation is adequate.

**Skin Protection:** Chemical resistant gloves.

**Eye Protection:** Safety glasses or goggles.

#### Section 9: Physical and Chemical Properties

**Appearance:** Clear, colorless liquid

**Odor:** Odorless

**Solubility in Water:** Infinite

**Specific Gravity:** Approximately 1.15 - 1.52

**pH:** 13 - 14

**Boiling Point(°C):** Approximately 100

**Melting Point(°C):** Approximately 0

**Vapor Pressure:** Not Applicable.

#### Section 10: Stability and Reactivity

**Chemical Stability:** Stable under normal conditions of use and storage.

**Incompatibility:** Acids, organic halogen compounds, metals such as aluminum, tin and zinc.

**Hazardous Decomposition Products:** Sodium Oxide, decomposition by reaction with certain metals releases flammable and explosive Hydrogen gas.

**Hazardous Polymerization:** Will not occur.



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### Section 11. Toxicological Information

No LD50 (oral, rat) information available from "Registry of Toxic Effects of Chemical Substances". Irritation data: skin, rabbit: 500 mg/24H severe; eye, rabbit: 50 ug/24H severe. Investigated as a mutagen (Sodium Hydroxide).

### Section 12. Ecological Information

**Ecotoxicological Information:** Sodium Hydroxide has high acute and chronic toxicity to aquatic life. The toxicity is influenced by the hardness and alkalinity of the receiving water. Insufficient data are available to evaluate the short and long term effects to plants, birds and land animals.

**Chemical Fate Information:** Sodium Hydroxide is not expected to accumulate in the edible tissues of aquatic life that are normally consumed by humans.

### Section 13. Disposal Considerations

Neutralize with dilute acid solutions, then wash the resulting solution down the drain with plenty of water if local regulations allow. If not allowed, containerize for proper disposal with a RCRA approved waste disposal facility. Always dispose of in accordance with local, state and federal regulations.

### Section 14. Transport Information

Part Numbers: BDH0046-55GL, BDH0048-20L, BDH0066-55GL, BDH0068-20L, BDH0070-55GL, BDH0072-20L

D.O.T. Shipping Name: Sodium Hydroxide Solution

D.O.T. Hazard Class: 8

U.N. / N.A. Number: UN1824

Packing Group: II

D.O.T. Label: 8



### Section 15. Regulatory Information (Not meant to be all inclusive - selected regulation represented)

**OSHA Status:** These items meet the OSHA Hazard Communication Standard (29 CFR 1910.1200) definition of a hazardous material.

**TSCA Status:** All components of this solution are listed on the TSCA Inventory or are mixtures (hydrates) of items listed on the TSCA Inventory.

Sara Title III:

**Section 302 Extremely Hazardous Substances:** Not Applicable.

**Section 311/312 Hazardous Categories:** Acute, Chronic, Reactivity: Yes      Fire, Pressure: No

**Section 313 Toxic Chemicals:** Not Applicable.

**California:** None Reported.

**Pennsylvania:** Sodium Hydroxide is listed as an Environmental Hazard on the state's Hazardous Substances List.

**RCRA Status:** Not Applicable.

**CERCLA Reportable Quantity:** Sodium Hydroxide - 1,000 pounds.

**WHMIS:** E: Corrosive Material.





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## Section 16. Other Information

### NFPA Ratings:

Health: 3

Flammability: 0

Reactivity: 1

Special Notice Key:None

### HMIS Ratings:

Health: 3

Flammability: 0

Reactivity: 1

Protective Equipment:B (Protective Eyewear, Gloves)

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and RICCA CHEMICAL COMPANY assumes no legal responsibility or liability whatsoever resulting from its use.

