

MSDS

SODIUM HYDROXIDE SOLUTIONS, < 0.20 Normal, < 1% (w/v) Aqueous Solutions

## Material Safety Data Sheet

### Section 1: Chemical Product and Company Identification

<b>Catalog Number:</b> 7242.5, 7243.8, 7294.5, 7294.7, 7295, 7300, 7310, 7320, 7330, 7340, 7342, 7348, 7350, 7350.3, 7350.4, 7351, 7353, 7354, 7355, 7356, 7356.5, 7357, 7357.2, 7359, 7359.5, 7360, 7474, R7242300, R72950UL, R7330027, R7343000, R73430UL, R73500UL, R7350200, R7353500, R7356800, S-353, S-435, S-440, S-445, S-450, S-459, S-460, S-465, S086210, S086250, S086300, S086340, S086360, S086380, S086410, S086430, S086440, S086450, S086470, S086480, SS086210, SS086300, SS086340, SS086360, SS086380, SS086430, SS086440, SS086470, SS086480, SX-1128, SX-952, SX-977, SX-980	
<b>Product Identity:</b> SODIUM HYDROXIDE SOLUTIONS, < 0.20 Normal, < 1% (w/v) Aqueous Solutions	
<b>Manufacturer's Name:</b> RICCA CHEMICAL COMPANY LLC	<b>Emergency Contact(24 hr) -- CHEMTREC®</b> Domestic: 800-424-9300 International: 703-527-3887
<b>CAGE Code:</b> 0V553	
<b>Address:</b> 448 West Fork Dr Arlington, TX 76012	<b>Telephone Number For Information:</b> 817-461-5601
<b>Date Prepared:</b> 6/22/98	<b>Revision:</b> 27  Last Revised: 06/14/2007 Date Printed: 06/15/2007 4:21:40 pm

### Section 2. Composition/Information on Ingredients

Component	CAS Registry #	Concentration	ACGIH TLV	OSHA PEL
Sodium Hydroxide	1310-73-2	< 1	Not Available C 2 mg/m3	Not Available 2 mg/m3
Water, Deionized	7732-18-5	Balance	Not Available Not Available	Not Available Not Available

### Section 3: Hazard Identification

**Emergency Overview:** Non-flammable, non-toxic, non-corrosive. Does not present any significant health hazards. Wash areas of contact with water.

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

**Eye Contact:** May cause slight irritation.

**Inhalation:** May cause irritation.

**Skin Contact:** May cause mild irritation, slick feel to touch.

**Ingestion:** May cause mild burns of the mouth, throat and stomach.

**Chronic Effects/Carcinogenicity:** None

**IARC** - No.

**NTP** - No.

**OSHA** - No.

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**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.

**LFL:** Not Available.

**Extinguishing Media:** Use any means suitable for extinguishing surrounding fire.

**Fire & Explosion Hazards:** Not considered to be a fire or explosion hazard.

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

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

**Method Used:** Not Available.

**UFL:** Not Available.

### 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:** General

### 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

**pH:** > 12

**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.

### 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).

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**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**

Dilute with water, neutralize with dilute acid solutions, then wash the resulting solution down the drain with plenty of water if local regulations allow. Always dispose of in accordance with local, state and federal regulations.

**Section 14. Transport Information**

Part Numbers:

This product is not regulated.

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

**OSHA Status:** The above items either do not contain any specifically hazardous material or the potentially hazardous material is present in such low concentration that the items do not present any immediate threat to health and safety. These items do not 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:** 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:** Not Applicable.

**Section 16. Other Information**



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## NFPA Ratings:

Health: 1                      Flammability: 0                      Reactivity: 0                      Special Notice Key:None

## HMIS Ratings:

Health: 1                      Flammability: 0                      Reactivity: 0                      Protective Equipment:B (Protective Eyewear, Gloves)

Rev 1, 10-19-98: (Section 1) Specified catalog numbers; (Section 16) removed periods from NFPA and HMIS; Added ® to HMIS.  
Rev 2, 5-19-99: (Section 1) added catalog number 7351.  
Rev 3, 6-28-99: (Section 1) added catalog numbers 7242.5, 7243.8, 7353, 7356.5, 7474; added (v/v) to description.  
Rev 4, 9-24-99: Reformatted to Microsoft Word® from WordPerfect®.  
Rev 5, 3-28-2000: Revised emergency telephone number to CHEMTREC® 800-424-9300.  
Rev 6, 7-10-2000: (Section 1) added catalog numbers 7320 and 7354.  
Rev 7, 10-09-2001: Reformatted to electronic data format.  
Rev 8, 01-21-2002: (Section 1) revised title from 0.01 - 0.20 Normal; added catalog numbers 7294.5, 7294.7 and 7359.5.  
Rev 9, 02-13-2002: (Section 1) added catalog number 7350.3.  
Rev 10, 06-14-2002: (Section 1) added catalog number 7342.  
Rev 11, 08-08-2002: Re-created msds.  
Rev 12, 09-17-2002: (Section 1) added Solutions Plus brand catalog number S086250.  
Rev 13, 10-01-2002: (Section 1) added Solutions Plus catalog number S086480.  
Rev 14, 03-18-2003: (Section 1) added Solutions Plus catalog numbers S086210, S086300, S086340, S086360, S086380, S086410, S086430, S086440, S086470, S087200.  
Rev 15, 02-18-2004: (Section 1) added Solutions Plus catalog number S086450.  
Rev 16, 03-01-2005: revised title.  
Rev 17, 12-27-2005: (Section 1) added Red Bird catalog number SX-980.  
Rev 18, 02-21-2006: (Section 1) added Red Bird catalog numbers S-460 and SX-977.  
Rev 19, 03-03-2006: (Section 1) removed SpectroPure catalog number SS087200 (S087200).  
Rev 20, 03-08-2006: (Section 1) added catalog number R7353500.  
Rev 21, 03-27-2006: (Section 1) added catalog number R7343000.  
Rev 22, 06-08-2006: (Section 1) added catalog numbers R72950UL, R73430UL, and R73500UL.  
Rev 23, 10-10-2006: (Section 1) added catalog number R7330027.  
Rev 24, 11-27-2006: (Section 1) added catalog number R7356800.  
Rev 25, 12-13-2006: (Section 1) added catalog numbers R7242300 and R7350200.  
Rev 26, 03-29-2007: (Section 1) added Red Bird catalog number SX-952.  
Rev 27, 06-14-2007: (Section 1) added Red Bird catalog number S-459.

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.