

Material Safety Data Sheet

Section 1: Chemical Product and Company Identification

Catalog Number: 2650, D031030, SD031030	
Product Identity: DOCTOR'S SOLUTION	
Manufacturer's Name: RICCA CHEMICAL COMPANY LLC	Emergency Contact(24 hr) -- CHEMTREC® Domestic: 800-424-9300 International: 703-527-3887
CAGE Code: 0V553	
Address: 448 West Fork Dr Arlington, TX 76012	Telephone Number For Information: 817-461-5601
Date Prepared: 9/5/00	Revision: 4 Last Revised: 02/12/2007 Date Printed: 06/15/2007 5:04:33 pm

Section 2. Composition/Information on Ingredients

Component	CAS Registry #	Concentration	ACGIH TLV	OSHA PEL
Sodium Hydroxide	1310-73-2	12 - 13	Not Available C 2 mg/m3	Not Available 2 mg/m3
Lead Monoxide	1317-36-8	1.9 - 2.8	Not Available 0.05 mg/m3	Not Available 0.05 mg/m3
Water, Deionized	7732-18-5	Balance	Not Available Not Available	Not Available Not Available

Section 3: Hazard Identification

Emergency Overview: CAUTION! Corrosive. May cause burns to all areas of contact. May be absorbed through the skin. 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. Contains a lead compound, which is a suspected carcinogen.

Target Organs: eyes, skin, respiratory system, gastrointestinal tract, blood, gums, kidneys, central nervous system

Eye Contact: May cause irritation and burns.

Inhalation: May cause mild irritation to serious damage of the upper respiratory tract, depending on severity of exposure.

Skin Contact: May cause irritation and burns. May be absorbed through the skin, with possible lead poisoning developing from repeated exposures.

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

Chronic Effects/Carcinogenicity: Dermatitis and lead poisoning may develop from repeated exposures.

IARC - No.

NTP - No.

OSHA - No.

MSDS

Reproductive Information: Not Applicable.

Teratology (Birth Defect) Information: Mutation data cited in 'Registry of Toxic Effects of Chemical Substances' for Lead Monoxide. 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: Immediately flush with plenty of water for at least 15 minutes. Remove any contaminated clothing. Wash with soap and water, then flush again with water. Call a physician if irritation develops.

Ingestion: Do not induce vomiting. Give large quantity of water. Call a physician immediately.

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.

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

Fire Fighting Instructions: Use normal procedures/instructions. Do not release runoff from fire fighting measures to sewers or waterways. Dike for containment or disposal.

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

Section 6: Accidental Release Measures

Do not flush to sewer. Absorb with suitable material. Containerize for disposal with a hazardous waste disposal facility. Dispose of in accordance with local regulations.

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. May have slight orange sediment.

Odor: Odorless

Solubility in Water: Infinite

Specific Gravity: Approximately 1.14

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: Lead, 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: (Sodium Hydroxide) 500 mg/24H severe; eye, rabbit: 50 g/24H severe. Investigated as a mutagen (Lead Monoxide and 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. Lead and its compounds have high acute and chronic toxicity to aquatic life.

Chemical Fate Information: Sodium Hydroxide is not expected to accumulate in the edible tissues of aquatic life that are normally consumed by humans. Lead is highly persistent in the aquatic environment, with a half-life of greater than 200 days.

Section 13. Disposal Considerations

Do not flush to sewer. Absorb with suitable material. Containerize for disposal with an RCRA approved hazardous waste disposal facility. Always dispose of in accordance with local, state and federal regulations.

Section 14. Transport Information

Part Numbers: 2650-1, 2650-2.5, 2650-32, 2650-5, 2650-5HP, SD031030-10F, SD031030-1A, SD031030-20F, SD031030-4A

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: Contains an ingredient (Lead Monoxide) known to the state of California to cause cancer.

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.

MSDS

DOCTOR'S SOLUTION

WHMIS: E: Corrosive Material. D-2B: Poisonous and Infectious Material. Materials causing other toxic effects - Toxic Material.



Section 16. Other Information

NFPA Ratings:

Health: 3 Flammability: 0 Reactivity: 0 Special Notice Key:None

HMIS Ratings:

Health: 3 Flammability: 0 Reactivity: 0 Protective Equipment:B (Protective Eyewear, Gloves)

Rev 1, 10-09-2001: Reformatted to electronic data format.

Rev 2, 02-13-2003: (Section 15) updated California Proposition 65 information.

Rev 3, 03-14-2003: (Section 1) added Solutions Plus catalog number D031030, (Section 2) revised concentration of Lead Monoxide from 1.9 - 2.5 to 1.9 - 2.8%.

Rev 4, 02-12-2007: Reviewed and approved for distribution.

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.

