MSDS - Material Safety Data Sheet

Product Name: Phenolphthalein Reagent, Ampoule 2

MSDS No.: 288PX2

I. Basic Information:

Manufacturer: Sirchie Finger Print Laboratories
Address: 100 Hunter Place
City, ST Zip: Youngsville, NC 27596
Country: USA

Contact: Tech Support
Information Telephone Number: 919-554-2244
Emergency Contact: ChemTrec
Emergency Telephone Number: 800-424-9300
Emergency Restrictions:

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Issue Date: 10/27/2011
Supersedes Date: Not Available

II. Hazards Identification:

EMERGENCY OVERVIEW

Corrosive. May cause respiratory and digestive tract burns. May cause skin and eye burns.

This material is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Potential Health Effects

Route(s) of Entry:

Inhalation, ingestion, skin, eyes

Health Hazards (Acute and Chronic):

Acute: Skin burns and possible ulcers, severe eye burns, chemical pneumonitis, pulmonary edema

Chronic: Dermatitis

Signs and Symptoms:

Inhalation: Coughing, burns, breathing difficulty, possible coma

Ingestion: Severe pain, nausea, vomiting, diarrhea, shock

Medical Conditions Generally Aggravated by Exposure:

Skin, eye, respiratory diseases

Other Health Warnings:

None specified

Potential Environmental Effects

Prevent from entering sewers or waterways. May be harmful to some aquatic life.

III. Composition/Information on Ingredients:

Chemical Name	CAS No.	% Range	Trade Secret
Phenolphthalein	77098	<1.00	
Sodium hydroxide	1310732	16.39	
Water (Distilled)	7732185	81.97	
Zinc	7440666	<1.00	

IV. First Aid Measures:

Emergency and First Aid Procedures:

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Inhalation: Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen (To be administered by qualified medical personnel only!) Get medical attention.

Ingestion: DO NOT induce vomiting. If victim is conscious and alert, give 2-4 cups of milk or water. (Never give anything by mouth to an unconscious person!) Get medical attention immediately.

Skin: Flush skin with plenty of soap and water for at least 15 minutes. Remove & discard contaminated clothing. Seek medical attention.

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Do not allow victim to rub or keep eyes closed. Get medical aid immediately.

Note to Physicians:

Not Available

V. Fire Fighting Measures:

Suitable Extinguishing Media:

Dry chemical, carbon dioxide, alcohol-resistant foam, graphite powder, soda ash, powdered sodium chloride, appropriate metal fire extinguishing dry powder

Unsuitable Extinguishing Media:

Wear self-contained breathing apparatus and protective clothing.

Products of Combustion:

Not Available

Protection of Firefighters:

Wear normal turnout gear.

VI. Accidental Release Measures:

Personal Precautions:

Wear vapor respirator, safety goggles, and rubber gloves.

Environmental Precautions:

Prevent from entering sewers or waterways. May be harmful to some aquatic life.

Methods for Containment:

Dike if possible to do so safely

Methods for Cleanup:

Remove sources of ignition (i.e. open flames, sparks). Soak up with inert absorbent material (do not use flammable substances such as sawdust).

Other Information:

Dispose according to local, state, and federal regulations.

VII. Handling and Storage:

Handling Precautions:

Keep in tightly closed container. Keep cool and dry. Avoid all ignition sources (heat, open flame, spark). Use only in well-ventilated areas. Avoid contact with skin, eyes, and clothing. Do not ingest or inhale. Wash thoroughly after handling.

Storage Precautions:

Avoid incompatible materials, especially water.

VIII. Exposure Controls/Personal Protection:

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Chemical Name	OSHA PEL	ACGIH TLV	Other Limits
Sodium hydroxide	2 mg/m3	2 mg/m3	1,390 C
Water (Distilled)	None	None	212 F
Zinc	5 mg/m3	5 mg/m3	908 C
Phenolphthalein	NE	NE	264 C

Engineering Controls:

Use only in well-ventilated areas.

Personal Protective Equipment:

Safety goggles, gloves, vapor respirator, protective clothing

IX. Physical and Chemical Properties:

Boiling Point: ~212 F
Boiling Range: Not Available
Solubility In Water: Soluble
Flash Point: NE
Odor Threshold: Not Available
Vapor Density (AIR = 1): NE
pH Range: Not Available
Decomposition Temp: Not Available
Lower Explosive Limit: 0.5 oz/ft3
Specific Gravity (H20 = 1): Not Available
Other Information: Not Available

Melting Point: ~32 F
Freezing Point: 32 F
Evaporation Rate (Butyl Acetate = 1): NE
Flash Point Method: Not Available
Appearance and Odor: Odorless clear-off white solution
Vapor Pressure (mm Hg.): NE
Partition Coefficient: Not Available
Auto-Ignition Temp: Not Available
Upper Explosive Limit: NE

X. Stability and Reactivity:

Stability:

Stable

Conditions to Avoid:

None specified

Incompatible Materials:

Acids, cinnamaldehyde, chloroform + methane, metals, alloys, nitrates, barium dioxide, cadmium, carbon disulfate, chlorates, chlorine, chlorine trifluoride, chromic anhydride, ethyl acetoacetate + trobromoneopentyl, fluorine, hydrazine mononitrate, hydroxylamine, lead azide, magnesium, manganese chloride, peroxides, selenium, sulfur, tellurium, strong oxidizing agents, water, ignition sources (heat, open flame, spark)

Hazardous Decomposition Products:

Sodium oxide & peroxide fumes, hydrogen sulfide, sulfur dioxide, carbon monoxide & dioxide, combustible hydrogen gas, zinc oxide fumes

Possibility of Hazardous Reactions:

Does not occur.

XI. Toxicological Information:

Corrosive. May cause respiratory and digestive tract burns. May cause skin and eye burns.

This material is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

XII. Ecological Information:

Prevent from entering sewers or waterways. May be toxic to some aquatic life. Liquid sodium hydroxide leaches rapidly into the soil, possibly contaminating water sources.

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XIII. Disposal Considerations:

Dispose according to local, state, and federal regulations pursuant to 40 CFR part 261 of the Resource Conservation & Recovery Act (RCRA).

XIV. Transport Information:

Shipping Name: Sodium hydroxide solution

DOT Hazard Class: 8

DOT Subsidiary Hazard Class: Not Available

UN/NA#: UN1824

Packing Group: II

Transportation Information:

Keep in tightly closed container. Keep cool and dry. Avoid all ignition sources (heat, open flame, spark). Avoid incompatible materials, especially water. Avoid contact with skin, eyes, and clothing. Do not ingest or inhale. Wash thoroughly after handling.

IATA

Shipping name: Sodium hydroxide solution
Hazard class: 8
UN no.: 1824
Packing group: II
Corrosive!

XV. Regulatory Information:

Sodium hydroxide is listed on the TSCA inventory.

Sodium hydroxide is listed as a Hazardous Substance under the Clean Water Act.

This material is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

XVI. Other Information:

Chemical State: [X] Liquid [ ] Gas [ ] Solid

Chemical Type: [ ] Pure [X] Mixture

Hazard Category:

[X] Acute [X] Chronic [X] Fire

[ ] Pressure [ ] Reactive

Additional Manufacturer Warnings:

Using this product under normal, properly instructed procedures should not be hazardous.

2	Health
4	Flammability
0	Physical Hazard
H	Pers. Protection

Additional Product Information:

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, expressed or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes.