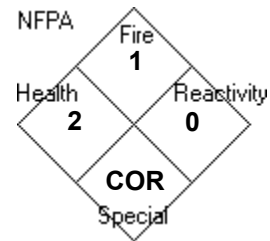


MSDS - Material Safety Data Sheet**Product Name: Phenolphthalein Solution**

MSDS No.: DCB101

I. Basic Information:**Manufacturer:** Sirchie Finger Print Laboratories**Address:** 100 Hunter Place**City, ST Zip:** Youngsville, NC 27596**Emergency Contact:** ChemTrec**Emergency Telephone Number:** 800-424-9300**Contact:** Tech Support**Information Telephone Number:** 919-554-2244**Last Update:** 02/17/2011**Expiration Date:****Chemical State:** Liquid Gas Solid**Chemical Type:** Pure Mixture

2	Health
0	Flammability
0	Reactivity
H	Pers. Protection

II. Ingredients: Trade Secret (N/D = Not Disclosed)

CAS No.	Chemical Name	% Range	EHS		IARC		SARA 313		OSHA PEL	ACGIH TLV	Other Limits
			NTP		SUB Z						
1310732	Sodium hydroxide	>16.00							2 mg/m ³	2 mg/m ³	1,390 C
7732185	Water (Distilled)	>81.00							None	None	212 F

III. Hazardous Identification:**Hazard Category:** Acute Chronic Fire Pressure Reactive**Hazardous Identification Information:**

Corrosive. Harmful if swallowed. Causes respiratory and digestive tract burns. Causes skin and eye burns.

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

IV. First Aid Measures:**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, respiratory, eye, liver, kidney, reproductive diseases

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Emergency and First Aid Procedures:

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.

Other Health Warnings:

V. Fire Fighting Measures:

Flash Point: NE

Lower Explosive Limit: 0.5 oz/ft³

Upper Explosive Limit: NE

F.P. Method:

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

Special Fire Fighting Procedures:

Wear self-contained breathing apparatus and protective clothing.

Unusual Fire and Explosion:

VI. Accidental Release Measures:

Steps to be Taken in Case Material is Released or Spilled:

Wear vapor respirator, safety goggles, and rubber gloves. Remove sources of ignition (i.e. open flames, sparks). Soak up with inert absorbent material (do not use flammable substances such as sawdust). Dispose according to local, state, and federal regulations.

VII. Handling and Storage:

Precautions to be Taken:

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

Other Precautions:

VIII. Exposure Controls/Personal Protection:

Ventilation Requirements:

Use only in well-ventilated areas.

Personal Protective Equipment:

Safety goggles, gloves, vapor respirator, protective clothing

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IX. Physical and Chemical Properties:

Boiling Point: ~212 F

Melting Point: ~32 F

Evaporation Rate (Butyl Acetate = 1): NE

Vapor Pressure (mm Hg.): NE

Specific Gravity (H2O = 1):

Vapor Density (AIR = 1): NE

Solubility In Water: Soluble

Appearance and Odor: Odorless clear-off white solution

Other Information:

X. Stability and Reactivity:

Stability:

Stable

Incompatibility (Materials to Avoid):

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)

Decomposition/By Products:

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

Hazardous Polymerization:

Does not occur.

XI. Toxicological Information:

Corrosive. Harmful if swallowed. Causes respiratory and digestive tract burns. Causes skin and eye burns.

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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.

XIII. Disposal Considerations:

Dispose according to local, state, and federal regulations.

XIV. Transport 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: Chemical kit

Hazard class: 9

UN no.: 3316

Packing group: II

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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:

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

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.