

MATERIAL SAFETY DATA SHEET

Phenolphthalein Indicator Solution

SECTION 1 . Product and Company Identification

Product Name and Synonym: Phenolphthalein Indicator Solution

Product Code: 220-00

Material Uses:

Manufacturer: OFI Testing Equipment Inc.
11302 Steeplecrest Dr.
Houston, TX 77065
(877) 837-8683

Entry Date : 5/10/2010

Print Date: 5/10/2011

24 Hour Emergency Assistance : Chemtrec 800-424-9300
Canutec 613-996-6666

| | |
|--|---------|
| Health: | 1 |
| Flammability: | 1 |
| Reactivity: | 0 |
| Hazard Rating: | |
| Least | Slight |
| 0 | 1 |
| 2 | 3 |
| 4 | Extreme |
| NA = Not Applicable NE = Not Established | |

SECTION 2 HAZARD IDENTIFICATION

Keep away from heat and ignition sources. Harmful if swallowed. Avoid breathing vapors. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

Emergency Overview: Danger! Harmful If Inhaled Or Absorbed Through Skin. Vapor Harmful. Flammable Liquid And Vapor. Affects Central Nervous System. Causes Irritation To Skin, Eyes And Respiratory Tract. Inhalation: Overexposure May Cause Coughing, Shortness Of Breath Dizziness, Intoxication And Collapse. Ingestion: May Cause Moderate Irritation Of The Mouth, Throat, Esophagus And Stomach, With Abdominal And Chest Discomfort. Skin: Exposure To This Material Can Result In Absorption Through Skin Causing A Significant Health Hazard. Eye Contact: Liquid Vapor, And Mist May Cause Discomfort In The Eye With Persistent Conjunctivitis, Seen As Slight Excess Redness Of Conjunctiva. Serious Corneal Injury In Not Anticipated. Chronic Exposure: Repeated Or Prolonged Skin Contact May Cause Progressive Dermatitis And May Aggravate Pre-Existing Dermatitis. Repeated Or Prolonged Exposure To Vapors May Aggravate Asthma And Other Respiratory Conditions. Overexposure May Cause Incoordination Of Movements, Speech Difficulties, Headache, Loss Of Consciousness And Possible Liver And Kidney Damage. Aggravated by Exposure: This Material Or Its Emissions May Affect The Central Nervous System (Cns) And/Or Aggravate Pre-Existing Cns Disorders. Prolonged Observation May Be Indicated.

SECTION 3 MIXTURE COMPONENTS

| SARA 313 | Component | CAS Number | Percent Comp. | Dimension | Exposure Limits |
|--------------------------|---|---------------|---------------|-----------|---|
| <input type="checkbox"/> | 1,2-Propanediol (Propylene Glycol) | CAS# 57-55-6 | 33.3% | V/V | |
| <input type="checkbox"/> | N-Propoxy Propanol Prop Glycol Propyl Ether | CAS#1569-01-3 | 33.3% | V/V | OSHA TWA 1000 ppm (2400 mg/m ³) |

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|--|----------------|---------|-----|----------------------------------|
| <input type="checkbox"/> Phenolphthalein | CAS# 77-09-8 | 1% | W/V | TXDS: irp-rat LDLo: 500 mg/Kg |
| <input type="checkbox"/> Water, Deionized ASTM Type II | CAS# 7732-18-5 | Balance | V/V | None Established |

SECTION 4 FIRST AID MEASURES

Keep away from heat and ignition sources. Harmful if swallowed. Avoid breathing vapors. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

FIRST AID: SKIN: Wash exposed area with soap and water. If irritation persists, seek medical attention.

EYES: Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen

INGESTION: Give several glasses of milk or water. Vomiting may occur spontaneously, but DO NOT INDUCE! Never give anything by mouth to an unconscious person.

SECTION 5 FIRE FIGHTING MEASURES

Fire Extinguisher Type: Any means suitable for extinguishing surrounding fire

Fire / Explosion Hazards: material may burn in a fire.

Fire Fighting Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Remove all ignition sources. Ventilate area of leak or spill. Wear protective clothing and respirator. Contain and recover liquid when possible.

Ventilate area or Leak or Spill. Remove all Sources of Ignition. Wear Appropriate Personal Protective Equipment as Specified in Section 8. Isolate Hazard Area. Keep Unnecessary and Unprotected Personnel from Entering. Contain and Recover Liquid when Possible. Use Non-Sparking Tools and Equipment. Collect Liquid in an Appropriate Container or Absorb with an Inert Material (e.g., Vermiculite, Dry Sand, Earth), and Place in a Chemical Waste Container. Do Not Use Combustible Materials, such as Saw Dust. Do Not Flush to Sewer! US Regulations (CERCLA) Require Reporting Spills and Releases to Soil, Water and Air.

SECTION 7 HANDLING AND STORAGE

Store in a cool dry well ventalated area. Keep away from heat and flame. Do not get in eyes, on skin, or on clothing.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: Organic Vapor Cartridge

Ventilation

Local Exhaust

Mechanical

Protective Gloves: Wear appropriate gloves to prevent skin exposure

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Eye Protection: Splash Goggles

Other Protective Equipment: Wear appropriate clothing to prevent skin exposure

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|----------------------|---|-----------------------------|---------------------------|
| Melting Point: | Information not available | Percent Volatile by Volume: | Information not available |
| Boiling Point: | Information not available | Evaporation Rate | Information not available |
| Vapor Pressure: | Information not available | Evaporation Standard | |
| Vapor Density: | Information not available | Auto Ignition Temp | Information not available |
| Solubility in Water: | Soluble | Lower Flamm. Limit in Air | Information not available |
| Appearance /Odors: | Clear colorless solution / ethyl alcohol odor | Upper Flamm. Limit in Air | Information not available |
| Flash Point: | flash point not available | | |
| Specific Gravity: | Information not available | | |

SECTION 10 STABILITY AND REACTIVITY INFORMATION

Stability: Stable

Conditions to Avoid: Heat and ignition sources

Materials to Avoid: Nitric Acid, Acetic Acid, Sulfuric Acid.

Hazardous Decomposition Products: oxides of carbon

Hazardous polymerization: Will Not Occur

Conditions to Avoid: None known

SECTION 11 Toxicological Information

Carcinogenic References: NTP Carcinogen - Known: No, IARC Category- None

SECTION 12 Ecological Information

Environmental Fate: When Released to the Soil and Water, this Material may Evaporate to Moderate Extent. When Released into the Soil, This Material may Leach into Groundwater. When Released into the Water, This Material is Expected to have a Half Life Between 1 and 10 Days.

SECTION 13 Disposal Considerations

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved incinerator or disposed in a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options.

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State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

SECTION 14 Transport Information

International (Water, IMO, IATA)

Not Regulated

DOT Classification: Not Regulated

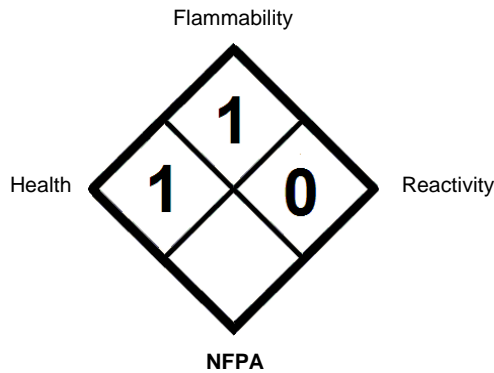
DOT Regulations may change from time to time. Please consult the most recent D.O.T. regulations.

SECTION 15 Regulatory Information

Components are listed on TSCA Inventory.

SECTION 16 Additional Information

Conditions aggravated/Target organs: Persons with preexisting skin, eye, respiratory disorders may be more susceptible. Acute: Irritation to skin, eyes, lungs, mucous membranes and GI tract, May cause severe eye irritation and moderate skin irritation. May be a slight health hazard if ingested in large quantities.



Revisions

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|-----------|-----|--|
| 7/30/2010 | 0.1 | updated msds to 16 section from 10 section msds. STN |
| | 0.2 | Revised sec 14 LS |

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