MATERIAL SAFETY DATA SHEET

Phenolphthalein Indicator Solution

SECTION 1. Product and Company Identification
Product Name and Substance: Phenolphthalein Indicator Solution
Product Code: 220-00-1
Material Uses: OFI Testing Equipment Inc.
Manufacturer: 11302 Steeplecrest Dr.

Houston, TX  77065
(877) 837-8683

Entry Date : 7/16/2013
Print Date: 7/16/2013
24 Hour Emergency Assistance : INFO TRAC USA - CANADA: 1-800-535-5053
INTERNATIONAL: 1-352-323-3500

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


SECTION 3  MIXTURE COMPONENTS

<table>
<thead>
<tr>
<th>SARA 313</th>
<th>Component</th>
<th>CAS Number</th>
<th>Percent Comp.</th>
<th>Dimension</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1,2-Propanediol (Propylene Glycol)</td>
<td>CAS# 57-55-6</td>
<td>33.3%</td>
<td>V/V</td>
<td>OSHA TWA 1000 ppm (2400 mg/m³)</td>
</tr>
<tr>
<td></td>
<td>N-Propanoxy Propanol Propyl Ether</td>
<td>CAS#1569-</td>
<td>33.3%</td>
<td>V/V</td>
<td></td>
</tr>
</tbody>
</table>
Phenolphthalein Indicator Solution

**Phenolphthalein**  CAS# 77-09-8  1%  W/V  TXDS: irp-rat
LDLo: 500 mg/Kg

**Water, Deionized ASTM Type II**  CAS# 7732-  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 material may burn in a fire.
Fire / Explosion Hazards: 
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 ventilated area. Keep away from heat and flame. Do not get in eyes, on skin, or on clothing.

SECTION 8  EXPOSURE CONTROLS/PERS  ONAL PROTECTION

Respiratory Protection: Organic Vapor Cartridge
Ventilation
Local
Mechanical
Protective Gloves: Wear appropriate gloves to prevent skin exposure
Phenolphthalein Indicator Solution

Eye Protection: Splash Goggles

Other Protective Equipment: Wear appropriate clothing to prevent skin exposure

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Information</th>
<th>Percent Volatile by</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting Point</td>
<td>Information not available</td>
<td></td>
<td>Information not available</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>Information not available</td>
<td></td>
<td>Information not available</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Information not available</td>
<td></td>
<td>Information not available</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Information not available</td>
<td></td>
<td>Information not available</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Soluble</td>
<td></td>
<td>Information not available</td>
</tr>
<tr>
<td>Appearance /Odors</td>
<td>Clear colorless solution / ethyl alcohol</td>
<td></td>
<td>Information not available</td>
</tr>
<tr>
<td>Flash Point</td>
<td>flash point not available</td>
<td></td>
<td>Information not available</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>Information not available</td>
<td></td>
<td>Information not available</td>
</tr>
</tbody>
</table>

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: oxides of carbon

Products: 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. 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
Phenolphthalein Indicator Solution

International (Water, IMO, IATA) odor
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.

Flammability

Health Reactivity

NFPA

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

The information herein is believed to be accurate and is offered in good faith for the user's consideration and investigation. No warranty either expressed or implied is made for the completeness or accuracy of the information whether originating from the above mentioned company or not. Users of this material should satisfy themselves by independent investigation of current scientific and medical knowledge that the material