PRODUCT IDENTIFICATION
Chemical Name and Synonyms:
Thymol blue solution; Thymol sulphonphthalein, sodium salt, aqueous solution
Chemical Family:
Sulphonphthalein dye
Chemical Formula:
C_{27}H_{30}O_{5}Na in H_{2}O
Product Use:
pH indicator
Manufacturer’s Name and Address:
Caledon Laboratories Ltd.
40 Armstrong Avenue
Georgetown, Ontario L7G 4R9
Telephone No:
(905) 877-0101
Fax No:
(905) 877-6666
Emergency Telephone No:
CANUTEC (613) 996-6666

HAZARDOUS INGREDIENTS OF MATERIALS

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>%</th>
<th>TLV Units</th>
<th>CAS No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thymol</td>
<td>&lt;1</td>
<td>Not established</td>
<td>62625-21-2</td>
</tr>
<tr>
<td>sulphonphthalein, sodium salt</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

PHYSICAL DATA
Physical State:
Liquid
Odour and Appearance:
Blue or brown liquid, slight, characteristic odour.
Odour Threshold (ppm):
Not available
Vapour Pressure (mm Hg):
Similar to water
Vapour Density (Air = 1):
Similar to water
Evaporation Rate:
Similar to water
Boiling Point (degrees C):
Similar to water
Melting Point (degrees C):
Similar to water
pH:
Not available
Specific Gravity:
Similar to water
Coefficient of Water/Oil distribution:
Not available

SHIPPING DESCRIPTION
UN:
Not regulated
T.D.G. Class:
Not regulated
Pkg. Group:
Not regulated

REACTIVITY DATA
Chemical Stability:
Stable
Incompatibility with other substances:
May react vigorously with strong oxidizers or strong reducing agents.
Reactivity:
Avoid excessive heat, incompatible materials, generation of mist.

Hazardous Decomposition Products:
None identified

FIRE AND EXPLOSION DATA
Flammability:
Non flammable
Extinguishing Media:
Use extinguishing media appropriate to the surrounding fire.
Flash Point (Method Used):
None
Autoignition Temperature:
Not applicable
Upper Flammable Limit (% by volume):
Not applicable
Lower Flammable Limit (% by volume):
Not applicable
Hazardous Combustion Products:
SO_{x}, CO_{x}, phenols, acidic smoke and fumes (minute quantities)

Sensitivity to Impact:
None
Sensitivity to Static discharge:
None

TOXICOLOGICAL PROPERTIES AND HEALTH DATA
Toxicological Data:
LD_{50}:
Not available
LC_{50}:
Not available
Effects of Acute Exposure to Product:
Inhaled:
May be slightly irritating
In contact with skin:
No human or animal information available. Not expected to cause irritation. May stain skin. Probably not absorbed through skin.
In contact with eyes:
No human or animal information available. May cause mild irritation
Ingested:
No human or animal information available. Extremely large amounts may cause gastrointestinal irritation.
Effects of Chronic Exposure to Product:
Some people may develop allergic reaction. No specific information is available, but allergic reactions do occur (rarely) to a related chemical, phenolphthalein.
Carcinogenicity:
No human or animal information available.
Teratogenicity:
No human or animal information available.
Reproductive Effects:
No human or animal information available.
Mutagenicity:
No human or animal information available. Positive results in test with bacteria.
Synergistic Products:
None found

PREVENTIVE MEASURES
Engineering Controls:
Local exhaust ventilation recommended
Respiratory Protection:  
Dust/mist mask.  NIOSH/MSHA approved respirator for high concentrations; positive-pressure, full face-piece self-contained breathing apparatus for fire or spill conditions.

Eye Protection: 
Chemical safety glasses.

Skin Protection: 
Plastic or rubber gloves. Other protective clothing sufficient to prevent contact.

Other Personal Protective Equipment: 
Safety shower and eye-wash fountain in work area.

Leak and Spill Procedure:  
Mop up spill or mix with inert absorbent and collect for disposal. Wash site of spillage thoroughly with running water and detergent.

Waste Disposal:  
Follow all federal, provincial and local regulations for disposal.

Handling Procedures and Equipment:  
Avoid generating mist.  Follow routine safe handling procedures.  Use the smallest amount possible for the purpose.  Avoid contact with skin and eyes.

Storage Requirements:  
Store in suitable, labelled containers, in a cool, dry, well-ventilated area, out of direct sunlight and away from incompatible materials.  Keep tightly closed.

FIRST AID MEASURES

Specific Measures:  

Eyes:  
Flush eyes thoroughly with gently running water for five to ten (5 to 10) minutes, holding eyelids open while flushing.  Get medical advice if irritation develops.

Skin:  
Remove contaminated clothing.  Wash skin with plenty of running water for five (5) minutes or until chemical is removed. If irritation develops get medical attention.

Inhalation:  
Remove to fresh air.  Get medical attention for any breathing difficulty.

Ingestion:  
If victim is alert and not convulsing, rinse mouth thoroughly with water and give 1 to 2 glasses of water to drink to dilute. If victim feels unwell, or if a very large amount has been ingested, get medical attention.

REFERENCES USED

CCINFO disc:  MSDS’s, September 2006
Budavari:  The Merck Index, 12th ed., 1997
Sax: Dangerous Properties of Industrial Materials, 5th ed., 1979
Suppliers’ Material Safety Data Sheets

ADDITIONAL INFORMATION

Date Issued:  
December 24, 1991

Revision:  
September 2012

MSDS:  
8910-6

Proposed WHIMS Designation:  
Not controlled.  Not required to be updated every three years (WHMIS 1992, B-40, Section 29.2)

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