

THYMOL BLUE SOLUTION**PRODUCT IDENTIFICATION****Chemical Name and Synonyms:**

Thymol blue solution; Thymol sulphonphthalein, sodium salt, aqueous solution

Chemical Family:

Sulphonphthalein dye

Chemical Formula:

C₂₇H₃₀O₅Na in H₂O

Product Use:

pH indicator

Manufacturer's Name and Address:

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HAZARDOUS INGREDIENTS OF MATERIALS

Ingredients	%	TLV Units	CAS No.
<i>Thymol</i>	<i><1</i>	<i>Not established</i>	<i>62625-21-2</i>
<i>sulphonphthalein, sodium salt</i>			

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, acrid smoke and fumes (minute quantities)

Sensitivity to Impact:

None

Sensitivity to Static discharge:

None

TOXICOLOGICAL PROPERTIES AND HEALTH DATA**Toxicological Data:****LD₅₀:**

Not available

LC₅₀:

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

THYMOL BLUE SOLUTION

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, Lewis: Hawley's Condensed Chemical Dictionary, 11th ed., 1987

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)

Prepared by: Caledon Laboratories Ltd. (905)

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