

Section 1 - Chemical Product and Company Identification

Product/Chemical Name Bromothymol Blue solution

Synonym:

Manufacturer/Supplier: Generic (No Company Label)

CANUTEC 24-HR EMERGENCY RESPONSE NUMBER: 613-996-6666

CANUTEC should only be called in the event of chemical emergencies involving a spill, leak, fire, exposure, or accident involving chemicals

Section 2 - Composition/Information on Hazardous Ingredients

+ - Add/Remove Component		Component Name	CAS Number	Mol Formula	Mol Wt.	% by Weight
		Bromothymol Blue	76-59-5	C ₂₇ H ₂₈ Br O ₅		

Section 3 - Hazards Identification

Emergency Overview

Caution! Combustible Liquid/Moderate skin irritant
Target Organs: Nerves., Liver, Heart

Potential Health Effects

NFPA Rating: Health Flammability Reactivity Oxidizer?

* denotes additional chronic hazards present

Eyes: Causes eye irritation.

Skin: May be harmful if absorbed through skin. Causes skin irritation.

Ingestion: May be harmful if swallowed.

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.

Chronic:

Notes to Physician:

Section 4 - First Aid Measures

General: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Inhalation: If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.

- Eye Contact: Rinse thoroughly with plenty of water for at least 15 minutes. Consult a physician.
- Skin Contact: Wash off with soap and plenty of water. Consult a physician.
- Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Notes to Physician:

Section 5 - Fire Fighting Measures

- General Information: Wear self contained breathing apparatus for fire fighting if necessary. Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking. Use water spray to cool unopened containers.
- Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Auto-Ignition Temperature: No data available
- Flash Point: 38 °C (100 °F) - closed cup
- Explosion Limits: Lower: No data available
- Explosion Limits: Upper: No data available

Section 6 - Accidental Release Measures

- General Information: Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust.
- Spills/Leaks: Do not let product enter drains. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

Section 7 - Handling and Storage

- Handling Precautions: Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.
- Storage Requirements: Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section 8 - Exposure Controls / Personal Controls

- Engineering Controls: Use mechanical exhaust or laboratory fumehood to avoid exposure. Safety shower and eye bath.
- Ventilation:
- Administrative Controls: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
- Respiratory Protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of

protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Protective Clothing/Equipment: Hand protection - Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
 Eye protection - Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
 Skin and body protection - impervious clothing, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Safety Stations:

Contaminated Equipment:

Comments: Components/ CAS-No./ Value /Control parameters/ Basis
 Ethanol/ 64-17-5 /TWAE V/1,000 ppm,1,900 mg/m3/Canada. Ontario OELs
 Remarks Upper Respiratory Tract irritation Confirmed animal carcinogen with unknown relevance to humans:
 The agent is carcinogenic in experimental animals at a relatively high dose, by route (s) of administration, at site(s), of histologic type(s), or by mechanism(s) that may not be relevant to worker exposure. Available epidemiologic studies do not confirm an increased risk of cancer in exposed humans. Available evidence does not suggest that the agent is likely to cause cancer in humans except under uncommon or unlikely routes or levels of exposure.

Section 9 - Physical and Chemical Properties

Physical State:	liquid	Boiling Point	Unknown
Colour:	N/A	Freezing/Melting Point:	Unknown
Odour:	N/A	Decomposition Temperature:	Unknown
pH:	N/A	Solubility in Water:	Unknown
Vapour Pressure:	N/A	Specific Gravity/Density:	Unknown
Vapour Density:	N/A	Evaporation Rate:	N/A
Viscosity:	N/A	Other:	

Section 10 - Stability and Reactivity

Chemical Stability: Stable under recommended storage conditions.

Conditions to Avoid: Heat, flames and sparks.

Incompatibility with Other Materials: Oxidizing agents, Alkali metals, Strong oxidizing agents, Ammonia, Peroxides

Hazardous Decomposition Products: Hazardous decomposition products formed under fire conditions. - Carbon oxides

Hazardous Polymerization: Will Not Occur

Section 11 - Toxicological Information

RETCS#:

LD50 / LC50: Acute toxicity
Oral LD50 - no data available
Inhalation LC50 - no data available
Dermal LD50 - no data available
Other information on acute toxicity - no data available
Skin corrosion/irritation - no data available
Serious eye damage/eye irritation - no data available
Respiratory or skin sensitization - no data available
Germ cell mutagenicity - no data available
Reproductive toxicity - no data available
Teratogenicity - no data available
Specific target organ toxicity - single exposure (Globally Harmonized System)
no data available
Specific target organ toxicity - repeated exposure (Globally Harmonized System)
no data available
Aspiration hazard - no data available
Potential health effects -
Inhalation - May be harmful if inhaled. May cause respiratory tract irritation
Ingestion May be harmful if swallowed.
Skin May be harmful if absorbed through skin. May cause skin irritation.
Eyes May cause eye irritation.
Signs and Symptoms of Exposure
Central nervous system depression, Nausea, Dizziness, narcosis, Damage to the heart., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Synergistic effects - no data available

Carcinogenicity: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Other: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12 - Ecological Information

Ecotoxicology: Toxicity - no data available
Persistence and degradability - no data available
Bioaccumulative potential - no data available
Mobility in soil - no data available
PBT and vPvB assessment - no data available
Other adverse effects - no data available

Other: N/A

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, provincial and local regulations. Contact a licensed professional waste disposal service to dispose of this material. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company

Contaminated packaging - Dispose of as unused product.

Section 14 - Transportation Information

Canada TDG

Shipping Name: Not Dangerous Goods

Hazard Class:

UN Number:

Packing Group:

Section 15 - Regulatory Information

Canadian Regulations

DSL Status - All components of this product are on the Canadian DSL list.
WHMIS Classification - B3 D2B Combustible Liquid Combustible Liquid/ Moderate skin irritant
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Section 16 - Other Information

MSDS Creation Date: Nov 16, 2012

Revision Number:

MSDS Revision Date:

Revisions were made to Sections: N/A

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