

Date Prepared: 03/03/2011

Reviewed On: 02/11/2011

1 Identification of the substance/mixture and of the company/undertaking

- **Product Identifier**
- **Product Name:** TB Quick Stain Methylene Blue
- **Catalog Number:** 212317
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
BD Diagnostic Systems
7 Loveton Circle
Sparks, MD 21152
Telephone.: (410) 771 - 0100 or (800) 638 – 8663
- **Information Department:** Technical Service
- **Emergency telephone number:**
In case of a chemical emergency, spill, fire, exposure, or accident contact BD Diagnostic Systems (410) 771-0100 or (800)-638-8663, or ChemTrec at (800) 424-9300.


2 Composition/information on ingredients

- **Chemical characterization:** *Mixture*
- **Description:** *Mixture consisting of the following components.*

· **Dangerous Components:**

64-17-5	ethanol	21.8%
56-81-5	glycerol	10.04%
64-19-7	acetic acid	4.5%
67-56-1	methanol	0.66%

3 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
 **Xn; Harmful**
R40: Limited evidence of a carcinogenic effect.
R10: Flammable.
- **Classification system:**
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
- **Label elements**
- **Labelling according to EU guidelines:**
This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR), and the MSDS contains all of the information required by the CPR.
- **Code letter and hazard designation of product:**
Xn Harmful
- **Hazard-determining components of labelling:**
ethanol
methanol
- **Risk phrases:**
10 Flammable.
40 Limited evidence of a carcinogenic effect.

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· **Safety phrases:**

- 7 Keep container tightly closed.
- 16 Keep away from sources of ignition - No smoking.
- 36/37 Wear suitable protective clothing and gloves.
- 60 This material and its container must be disposed of as hazardous waste.

· **Classification system**

· **NFPA ratings (scale 0-4)**



· **HMIS ratings (scale 0-4)**



4 First aid measures

· **General information**

Symptoms of poisoning may even occur after several hours; therefore provide medical observation for at least 48 hours after the accident.

- **After inhalation** Seek medical treatment in case of complaints.
- **After skin contact** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact** Rinse opened eye for 15 minutes under running water. Then consult a doctor.
- **After swallowing** Immediately call a doctor.
- **Information for doctor** Show this product label or this MSDS.

5 Firefighting measures

· **Suitable extinguishing agents**

CO₂, ABC multipurpose dry chemical or water spray. Fight larger fires with water spray or alcohol resistant foam.

- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.

- **Environmental precautions:** Wipe up with damp sponge or mop.

· **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).

· **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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7 Handling and storage

- **Handling**
- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:**
 - Keep ignition sources away - Do not smoke.
 - Protect against electrostatic charges.
- **Storage**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed containers.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see Section 7.

- **Components with limit values that require monitoring at the workplace:**

64-17-5 ethanol

 TLV 1900 mg/m³, 1000 ml/m³

64-19-7 acetic acid

 TLV Short-term value: 37 mg/m³, 15 ml/m³

 Long-term value: 25 mg/m³, 10 ml/m³

67-56-1 methanol

 TLV Short-term value: 325 mg/m³, 250 ml/m³

 Long-term value: 260 mg/m³, 200 ml/m³

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Personal Protective Equipment**
- **General protective and hygienic measures**
 - Keep away from foodstuffs, beverages and feed.
 - Immediately remove all soiled and contaminated clothing.
 - Wash hands before breaks and at the end of work.
 - Avoid contact with the eyes and skin.
- **Breathing equipment:**
 - In case of brief exposure, use a chemical fume hood or a NIOSH/MSHA-approved respirator.
- **Protection of hands:**



Chemical resistant gloves (i.e. nitrile, or equivalent).

- **Eye protection:** Safety glasses

9 Physical and chemical properties

- **General Information**

- **Appearance:**

Form: Liquid

Color: According to product specification

- **Odor:** Characteristic

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· Change in condition Melting point/Melting range: Not determined Boiling point/Boiling range: 78°C	
· Flash point:	29°C
· Ignition temperature:	425.0°C
· Auto igniting:	Product is not self igniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Explosion limits: Lower: Upper:	3.5 Vol % 15.0 Vol %
· Vapor pressure:	59.0 hPa
· Density:	Not determined
· Solubility in / Miscibility with Water:	Slightly soluble
· Solvent content: Organic solvents: Water:	27.0 % 62.8 %

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

64-17-5 ethanol

Oral	LD50	3450 mg/kg (MOU)
		7060 mg/kg (rat)

- **Primary irritant effect:**
- **on the skin:** No irritating effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:

12 Ecological information

- **Aquatic toxicity:** No further relevant information available.

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- **Ecotoxicological effects:**
- **Other information:**
The ecological effects have not been thoroughly investigated, but currently none have been identified.
- **Additional ecological information:**
- **General notes:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**
Must not be disposed of with solid waste.
Must adhere to official regulations.
- **Uncleaned packagings:**
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

- **DOT regulations:**



- **Hazard class:** 9
- **Identification number:** UN3316
- **Packing group:** III
- **Proper shipping name:** CHEMICAL KITS
- **Label** 9

- **TDG (Transport dangerous goods):**



- **TDG class:** 9 (M11) Miscellaneous dangerous substances and articles
- **UN-Number:** 3316
- **Packaging group:** III
- **UN proper shipping name:** 1993 Flammable liquid, n.o.s. (ethanol)

- **Maritime transport IMDG:**



- **IMDG Class:** 9
- **UN Number:** 3316
- **Label** 9

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· **Packaging group:** III
 · **EMS Number:** F-A,S-P
 · **Marine pollutant:** No
 · **Proper shipping name:** CHEMICAL KITS

· **Air transport ICAO-TI and IATA-DGR:**



· **ICAO/IATA Class:** 9
 · **UN/ID Number:** 3316
 · **Label** 9
 · **Packaging group:** III
 · **Proper shipping name:** CHEMICAL KITS

15 Regulatory information

· **SARA Section 355 (extremely hazardous substances)**

None of the ingredients is listed.

· **SARA Section 313 (specific toxic chemical listings)**

64-17-5 ethanol

67-56-1 methanol

· **TSCA (Toxic Substances Control Act)**

7732-18-5 water

64-17-5 ethanol

56-81-5 glycerol

64-19-7 acetic acid

67-56-1 methanol

· **Carcinogenic categories**

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**

64-17-5 ethanol

A4

· **Canadian Substance Listing**

· **Canadian Domestic Substance List (DSL)**

7732-18-5 water

64-17-5 ethanol

56-81-5 glycerol

64-19-7 acetic acid

67-56-1 methanol

· **Canadian Ingredient Disclosure List (limit 0.1%)**

64-17-5 ethanol

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**Material Safety Data Sheet**
acc. to ISO/DIS 11014

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· Canadian Ingredient Disclosure List (limit 1%)

64-19-7 | acetic acid

16 Other information

To the best of our knowledge, the information contained herein is accurate. However, neither Becton, Dickinson and Company or any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we can not guarantee that these are the only hazards that exist.

· Department issuing MSDS:*Environmental, Health & Safety**Created by Michael J. Spinazzola***· Contact:** *Technical Service Representative*

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