



Date Prepared: 07/31/2007

Reviewed On: 07/31/2007

1 Identification of substance:

- **Product name:** TB Quick Stain, Carbol Fuchsin
- **Catalog number:** 212316
- **Manufacturer/Supplier:**
BD Diagnostic Systems
7 Loveton Circle
Sparks, MD 21152
Telephone: (410) 771-0100 or (800) 638-8663
- **Information department:** Technical services
- **Emergency information:**
In case of a chemical emergency, spill, fire, exposure, or accident contact BD Diagnostic Systems at (410)771-0100 or (800) 638-8663, or ChemTrec at (800) 424-9300.

2 Composition/Data on components:

- **Chemical characterization**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

• Dangerous components:		
64-17-5	ethanol	19.0%
108-95-2	phenol	6.0%
569-61-9	basic fuchsin	0.1%

3 Hazards identification

- **Hazard description:**



T Toxic

- **Information pertaining to particular dangers for man and environment**
R 45 May cause cancer.
R 10 Flammable.
R 24/25 Toxic in contact with skin and if swallowed.
R 34 Causes burns.
R 40 Limited evidence of a carcinogenic effect.
- **Classification system**
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
- **NFPA ratings (scale 0-4)**



Health = 3
Fire = 3
Reactivity = 0

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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** Call a doctor immediately.
- **Information for doctor** Show this product label or this MSDS.

5 Fire fighting 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

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:** Wipe up with damp sponge or mop.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).

7 Handling and storage

- **Handling**
- **Information 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:** 15 - 30 C
- **Information about storage in one common storage facility:** Store away from oxidizing agents.
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed containers.

8 Exposure controls and personal protection

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

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

64-17-5 ethanol

PEL	1900 mg/m ³ , 1000 ppm
REL	1900 mg/m ³ , 1000 ppm
TLV	1880 mg/m ³ , 1000 ppm

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108-95-2 phenol

PEL	19 mg/m ³ , 5 ppm Skin
REL	Short-term value: C 60* mg/m ³ , C 15.6* ppm Long-term value: 19 mg/m ³ , 5 ppm *15-min
TLV	19 mg/m ³ , 5 ppm Skin; BEI

· **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.
- Store protective clothing separately.
- 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

· **Body protection:** Protective work clothing (lab coat).

9 Physical and chemical properties:

· **General Information**

Form:	Liquid
Color:	Red
Odor:	Alcohol-like

· **Change in condition**

Melting point/Melting range:	Not determined
Boiling point/Boiling range:	92°C (198°F)

· **Flash point:** 26.7°C (80°F)

· **Ignition temperature:** 425.0°C (797°F)

· **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:	3.5 Vol %
Upper:	15.0 Vol %

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· Vapor pressure at 20°C (68°F):	59.0 mbar
· Density:	Not determined
· Solubility in / Miscibility with Water:	Soluble
· Solvent content: Organic solvents:	19.0 %

10. Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Dangerous products of decomposition:**
Nitrogen oxides (NO_x)
Carbon monoxide (CO) and carbon dioxide (CO₂)
Ammonia (NH₄)

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)
108-95-2 phenol		
Oral	LD50	300 mg/kg (mus) 317 mg/kg (rat)
Dermal	LD50	670 mg/kg (rat)
569-61-9 basic fuchsin		
Oral	LD50	500 mg/kg (mou)

- **Primary irritant effect:**
- **on the skin:** Caustic effect on skin and mucous membranes.
- **on the eye:** Strong caustic effect.
- **Sensitization:** No sensitizing effects known.
- **Subacute to chronic toxicity:** Target organs: respiratory tract, eyes, kidneys, and skin.
- **Additional toxicological information:**

Irritant

The product shows the following dangers according to internally approved calculation methods for preparations:

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12 Ecological information:

- **Ecotoxicological effects:**
- **Other information:**
The ecological effects have not been thoroughly investigated, but currently none have been identified.
- **General notes:** *Water danger class 3 (Self-assessment): extremely hazardous for water.*

13 Disposal considerations

- **Product:**
- **Recommendation**
Must not be disposed of with solid waste.
Dispose of material in accordance with federal (40 CFR 261.3), state and local requirements.
RCRA hazardous waste - RCRA # D001 (ignitable).
- **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

· **Land transport ADR/RID (cross-border)**



- **ADR/RID class:** 9 (M11) *Miscellaneous dangerous substances and articles*
- **UN-Number:** 3316
- **Packaging group:** III
- **Description of goods:** 3316 CHEMICAL KITS

· **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 Regulations

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

108-95-2 | phenol

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

64-17-5 | ethanol

108-95-2 | phenol

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

64-17-5 | ethanol

108-95-2 | phenol

569-61-9 | basic fuchsin

· **California Proposition 65 - Chemicals known to cause cancer**

569-61-9 | basic fuchsin

· **California Proposition 65 - Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **California Proposition 65 - Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **California Proposition 65 - Chemicals known to cause developmental toxicity:**

64-17-5 | ethanol

· **Carcinogenicity categories**

· **IARC (International Agency for Research on Cancer)**

108-95-2 | phenol

3

569-61-9 | basic fuchsin

2B

· **NTP (National Toxicology Program)**

569-61-9 | basic fuchsin

R

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

64-17-5 | ethanol

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108-95-2 phenol

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Product related hazard information:

The product has been classified and marked in accordance with regulations on hazardous materials.

Hazard symbols:

T Toxic

Hazard-determining components of labeling:

ethanol

basic fuchsin

phenol

Risk phrases:

45 May cause cancer.

10 Flammable.

24/25 Toxic in contact with skin and if swallowed.

34 Causes burns.

40 Limited evidence of a carcinogenic effect.

Safety phrases:

53 Avoid exposure - obtain special instructions before use.

7 Keep container tightly closed.

16 Keep away from sources of ignition - No smoking.

20 When using do not eat or drink.

25 Avoid contact with eyes.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

28 After contact with skin, wash immediately with plenty of water

36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

43 In case of fire, use water or powdered extinguishing agent

45 In case of accident or if you feel unwell, seek medical advice immediately.

60 This material and its container must be disposed of as hazardous waste.

National regulations

Technical instructions (air):

Class	Share in %
I	6.0
III	19.0

Water hazard class: Water danger class 3 (Self-assessment): extremely hazardous for water.

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:

Safety and Environment Department

MSDS created by Michael J. Spinazzola

Contact: Technical Service Representative