

Date Prepared: 03/01/2011

Reviewed On: 02/11/2011

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

- **Product Identifier**
- **Product Name:** TB Carbofuchsin ZN
- **Catalog Number:** 212511
- **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:**

67-63-0	isopropanol	9.5%
108-95-2	phenol	5.5%
569-61-9	basic fuchsin	0.17%

3 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
 **T; Toxic**
R45-24/25: May cause cancer. Toxic in contact with skin and if swallowed.
-  **C; Corrosive**
R34: Causes burns.
- **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:**
 The product has been classified and marked in accordance with regulations on hazardous materials.
- **Code letter and hazard designation of product:**
 T Toxic
- **Hazard-determining components of labelling:**
 basic fuchsin
 phenol
- **Risk phrases:**
 45 May cause cancer.
 24/25 Also toxic in contact with skin and if swallowed.

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34 Causes burns.

· Safety phrases:

53 Avoid exposure - obtain special instructions before use.

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

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

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.

· NFPA ratings (scale 0-4)

Health = 3

Fire = 1

Reactivity = 0

· HMIS ratings (scale 0-4)

HEALTH 3

Health = *3

FIRE 1

Fire = 1

REACTIVITY 0

Reactivity = 0

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** Supply fresh air; consult doctor 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** Drink copious amounts of water and provide fresh air. 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).

Use neutralizing agent.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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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:** 15 - 30 °C
- **Information about storage in one common storage facility:**
 - Do not store together with oxidizing and acidic materials.
 - Do not store together with alkaline material.
- **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:**

67-63-0 isopropanol

PEL	980 mg/m ³ , 400 ppm
REL	Short-term value: 1225 mg/m ³ , 500 ppm Long-term value: 980 mg/m ³ , 400 ppm
TLV	Short-term value: 984 mg/m ³ , 400 ppm Long-term value: 492 mg/m ³ , 200 ppm

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).

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- **Eye protection:** Safety glasses
- **Body protection:** Protective work clothing (lab coat).

9 Physical and chemical properties

· General Information

· Appearance:

Form: Liquid
Color: Red
 Purple
Odor: Characteristic

· Change in condition

Melting point/Melting range: Not determined
Boiling point/Boiling range: Not determined

· **Flash point:** Not applicable

· **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.

· **Density:** Not determined

· Solubility in / Miscibility with

Water: Soluble

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Hazardous decomposition products:**
 Carbon monoxide (CO) and carbon dioxide (CO₂)
 Hydrogen chloride (HCl)
 Nitrogen oxides (NO_x)

11 Toxicological information

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

108-95-2 phenol

Oral	LD50	300 mg/kg (mus)
		317 mg/kg (rat)

Dermal	LD50	670 mg/kg (rat)
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569-61-9 basic fuchsin

Oral	LD50	500 mg/kg (mou)
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67-63-0 isopropanol

Oral	LD50	5045 mg/kg (rat)
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Dermal	LD50	12800 mg/kg (rab)
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- **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: liver, gastrointestinal tumors, blood, lymphomas.
- **Additional toxicological information:**
 The product shows the following dangers according to internally approved calculation methods for preparations:
 Toxic
 Corrosive (causes skin burns)
 Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.
 Carcinogenic

12 Ecological information

- **Acquatic toxicity:** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Water danger class 3 (Self-assessment): extremely hazardous for water.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**
 Must not be disposed of with solid waste.
 Dispose of material in accordance with federal (40 CFR 261.3), state and local requirements.
 This product is not considered a RCRA hazardous waste.
- **Uncleaned packagings:**
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

- **DOT regulations:**
- **Hazard class:** -
- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** -
- **Maritime transport IMDG:**
- **IMDG Class:** -
- **Marine pollutant:** No
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -

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· Transport/Additional information:

This package has been prepared in accordance with the provisions for dangerous goods in excepted packages. Dangerous Goods in Excepted Quantities. The Hazard Class, Identification number, and Packing group listed above is for informational purposes only.

15 Regulatory information
· SARA Section 355 (extremely hazardous substances)

108-95-2 phenol

· SARA Section 313 (specific toxic chemical listings)

67-63-0 isopropanol

108-95-2 phenol

· TSCA (Toxic Substances Control Act)

All ingredients are listed.

· 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:

None of the ingredients is listed.

· Carcinogenic categories
· NTP (National Toxicology Program)

569-61-9 basic fuchsin

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· TLV (Threshold Limit Value established by ACGIH)

67-63-0 isopropanol

A4

108-95-2 phenol

A4

· National regulations
· Additional classification according to Decree on Hazardous Materials:

CERCLA: This product contains Phenol which has a Reporting Quantity (RQ) of 1000#.

SARA 311/312: Subject to reporting.

313: Isopropyl Alcohol and Phenol are subject to reporting.

TSCA: This product is exempt under TSCA.

· 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.

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Material Safety Data Sheet
acc. to ISO/DIS 11014

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

USA