

1 Identification of substance:

- **Product name:** TB Carbofuchsin KF
- **Catalog number:** 212518
- **Manufacturer/Supplier:**
BD Diagnostic Systems
7 Loveton Circle
Sparks, MD 21152
Tel: (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:**

67-63-0	isopropanol	19.6%
108-95-2	phenol	4.9%
64-17-5	ethanol	4.7%
569-61-9	basic fuchsin	1.5%

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 21/22 Harmful in contact with skin and if swallowed.
- R 36/38 Irritating to eyes and skin.

· **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** Immediately call a doctor.
- **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).
Dispose contaminated material as waste according to item 13.

· Additional information:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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:** Store in a cool location.

· 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:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed containers.

- **Storage class** C

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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:**

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

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

· **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

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

9 Physical and chemical properties:

· **General Information**

Form:	Liquid
Color:	Dark red
Odor:	Characteristic

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· Change in condition

Melting point/Melting range: Not determined

Boiling point/Boiling range: Not determined

· Flash point: 29.4°C (85°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: 1.7 Vol %

Upper: 18 Vol %

· Vapor pressure at 25°C (77°F): 43.0 hPa (32 mm Hg)

· Density: Not determined

· Solubility in / Miscibility with

Water: Soluble

· Solvent content:

Organic solvents: 29 %

10 Stability and reactivity

· Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

· Dangerous reactions No dangerous reactions known

· Dangerous products of decomposition:

No dangerous decomposition products known.

Nitrogen oxides (NO_x)

Hydrogen chloride (HCl)

Carbon dioxide (CO₂)

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)

64-17-5 ethanol

Oral LD50 3450 mg/kg (MOU)

7060 mg/kg (rat)

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569-61-9 basic fuchsin

Oral	LD50	500 mg/kg (mou)
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- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Subacute to chronic toxicity:** Target organs: reproductive disorders, and tumor formation.
- **Additional toxicological information:**
Irritant
Harmful
The product shows the following dangers according to internally approved calculation methods for preparations:

12 Ecological information:

- **Ecotoxic effects:**
- **Other information:**
The ecological effects have not been thoroughly investigated, but currently none have been identified.
- **General notes:** Water hazard class 2 (Self-assessment): 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

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· **Label** 9

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



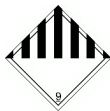
· **ADR/RID class:** 9 (M11) Miscellaneous dangerous substances and articles
 · **UN-Number:** 3316
 · **Packaging group:** III
 · **Description of goods:** 3316 CHEMICAL KITS

· **Maritime transport IMDG:**



· **IMDG Class:** 3
 · **UN Number:** 3316
 · **Label** 9
 · **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)**

67-63-0 isopropanol

108-95-2 phenol

64-17-5 ethanol

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

67-63-0 isopropanol

108-95-2 phenol

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64-17-5	ethanol
569-61-9	basic fuchsin

· California Proposition 65 - Chemicals known to cause cancer

569-61-9	basic fuchsin
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· 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
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· Carcinogenicity categories

· IARC (International Agency for Research on Cancer)

67-63-0	isopropanol	3
108-95-2	phenol	3
569-61-9	basic fuchsin	2B

· NTP (National Toxicology Program)

569-61-9	basic fuchsin	R
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· TLV (Threshold Limit Value established by ACGIH)

108-95-2	phenol	A4
64-17-5	ethanol	A4

· 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.
21/22 Harmful in contact with skin and if swallowed.
36/38 Irritating to eyes and skin.

· 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.
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.

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

· **National regulations**

· **Technical instructions (air):**

Class	Share in %
I	4.9
III	24.3

· **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

16 Other information:

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· **Department issuing MSDS:** Safety and Environment Department

· **Contact:** Technical Service Representative

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