

Safety Data Sheet acc. to OSHA HCS

Date Prepared: 06/03/2016

Reviewed On: 04/18/2016

1 Identification

- **Product Identifier:**
- **Product Name:** TB Carbofuchsin KF
- **Catalog Number:** 212518
- **Application of the substance / the mixture** Laboratory Chemicals
- **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
Email Address: Technical_Services@bd.com
- **Information Department:** Technical Service

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flam. Liq. 3 H226 Flammable liquid and vapor.



GHS08 Health hazard

Muta. 2 H341 Suspected of causing genetic defects.

Carc. 1B H350 May cause cancer.



GHS05 Corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

- **Label elements**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS02 GHS05 GHS08

- **Signal word** Danger

- **Hazard-determining components of labeling:**

phenol

(Contd. on page 2)

US

Safety Data Sheet acc. to OSHA HCS

Date Prepared: 06/03/2016

Reviewed On: 04/18/2016

Product Name: TB Carbofuchsin KF

(Contd. of page 1)

*basic fuchsin***· Hazard statements***H226 Flammable liquid and vapor.**H314 Causes severe skin burns and eye damage.**H341 Suspected of causing genetic defects.**H350 May cause cancer.***· Precautionary statements***P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.**P241 Use explosion-proof electrical/ventilating/lighting/equipment.**P260 Do not breathe dust/fume/gas/mist/vapors/spray.**P280 Wear protective gloves/protective clothing/eye protection/face protection.**P240 Ground/bond container and receiving equipment.**P233 Keep container tightly closed.**P242 Use only non-sparking tools.**P243 Take precautionary measures against static discharge.**P264 Wash thoroughly after handling.**P201 Obtain special instructions before use.**P202 Do not handle until all safety precautions have been read and understood.**P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.**P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**P310 Immediately call a POISON CENTER/doctor.**P321 Specific treatment (see on this label).**P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.**P363 Wash contaminated clothing before reuse.**P308+P313 IF exposed or concerned: Get medical advice/attention.**P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.**P370+P378 In case of fire: Use for extinction: CO₂, powder or water spray.**P405 Store locked up.**P403+P235 Store in a well-ventilated place. Keep cool.**P501 Dispose of contents/container in accordance with local/regional/national/international regulations.***· NFPA ratings (scale 0-4)**

Health = 1

Flammability = 3

Reactivity = 0

· HMIS ratings (scale 0-4)

Health = *1

Flammability = 3

Reactivity = 0

(Contd. on page 3)

US

Safety Data Sheet acc. to OSHA HCS

Date Prepared: 06/03/2016

Reviewed On: 04/18/2016

Product Name: TB Carbolfuchsin KF

(Contd. of page 2)

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

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

· **Dangerous Components:**

CAS: 67-63-0 EINECS: 200-661-7	isopropanol Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	19.6%
CAS: 108-95-2 EINECS: 203-632-7	phenol Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; Muta. 2, H341; STOT RE 2, H373; Skin Corr. 1B, H314	4.9%
CAS: 64-17-5 EINECS: 200-578-6	ethanol Flam. Liq. 2, H225	4.7%
CAS: 569-61-9 EINECS: 209-321-2	basic fuchsin Carc. 1B, H350	1.5%

- **Additional information** Risk phrases refer to section 15.

4 First-aid measures

- **Description of 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** Immediately call a doctor.
- **Information for doctor** Show this product label or this SDS.
- **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

US

(Contd. on page 4)

Safety Data Sheet acc. to OSHA HCS

Date Prepared: 06/03/2016

Reviewed On: 04/18/2016

Product Name: TB Carbolfuchsin KF

(Contd. of page 3)

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents**
CO₂, ABC multipurpose dry chemical or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture**
No further relevant information available.
- **Advice for firefighters**
- **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).
Dispose contaminated material as waste according to item 13.
- **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.

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.
- **Conditions for safe storage, including any incompatibilities**
- **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**

(Contd. on page 5)

Safety Data Sheet
acc. to OSHA HCS

Date Prepared: 06/03/2016

Reviewed On: 04/18/2016

Product Name: TB Carbofuchsin KF

(Contd. of page 4)

· **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

· **Additional information about design of technical systems:**

No further data; see Section 7.

· **Control parameters**

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

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

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

· **Exposure controls**

· **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.

(Contd. on page 6)

Safety Data Sheet acc. to OSHA HCS

Date Prepared: 06/03/2016

Reviewed On: 04/18/2016

Product Name: TB Carbolfuchsin KF

(Contd. of page 5)

· Protection of hands:


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

· Eye protection:

Safety glasses

Tightly sealed goggles.

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

9 Physical and chemical properties

· Information on basic physical and chemical properties
· General Information
· Appearance:

Form:	Liquid
Color:	Dark red
Odor:	Characteristic

· 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

· Other information No further relevant information available.

10 Stability and reactivity

· Reactivity No further relevant information available.

(Contd. on page 7)

Safety Data Sheet acc. to OSHA HCS

Date Prepared: 06/03/2016

Reviewed On: 04/18/2016

Product Name: TB Carbolfuchsin KF

(Contd. of page 6)

- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:**
No dangerous decomposition products known.
Nitrogen oxides (NOx)
Hydrogen chloride (HCl) gas
Carbon dioxide (CO2)

11 Toxicological information

- **Information on toxicological effects**
- **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)
569-61-9 basic fuchsin		
Oral	LD50	500 mg/kg (mou)

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Subacute to chronic toxicity:**
Target organs: reproductive disorders, and tumor formation.
Target organs: thyroid, kidney, ureter or bladder tumors.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Harmful
Irritant
Carcinogenic

- **Carcinogenic categories**

· IARC (International Agency for Research on Cancer)		
67-63-0	isopropanol	3
108-95-2	phenol	3
569-61-9	basic fuchsin	2B

(Contd. on page 8)

Safety Data Sheet
acc. to OSHA HCS

Date Prepared: 06/03/2016

Reviewed On: 04/18/2016

Product Name: TB Carbolfuchsin KF

(Contd. of page 7)

· **NTP (National Toxicology Program)**

569-61-9 basic fuchsin

R

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

· **Toxicity**

· **Aquatic toxicity:** This material is not expected to be toxic to aquatic life.

· **Persistence and degradability** No further relevant information available.

· **Behavior in environmental systems:**

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

· **Ecotoxicological effects:**

· **Other information:**

The ecological effects have not been thoroughly investigated, but currently none have been identified.

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Other adverse effects** No further relevant information available.

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.

RCRA hazardous waste - RCRA # D001 (ignitable).

· **Uncleaned packagings:**

· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

· **UN-Number**

· **DOT**

UN3316

· **IMDG, IATA**

3316

· **UN proper shipping name**

· **IMDG, IATA**

CHEMICAL KITS

(Contd. on page 9)

Safety Data Sheet
acc. to OSHA HCS

Date Prepared: 06/03/2016

Reviewed On: 04/18/2016

Product Name: TB Carbofuchsin KF

(Contd. of page 8)

· **Transport hazard class(es)**

· **DOT, IATA**



· **Class**

9 Miscellaneous dangerous substances and articles

· **Label**

9

· **IMDG**



· **Class**

3 Flammable liquids

· **Label**

9

· **Packing group**

· **DOT, IMDG, IATA**

III

· **Environmental hazards:**

· **Marine pollutant:**

No

· **Special precautions for user**

Warning: Miscellaneous dangerous substances and articles

· **EMS Number:**

F-A,S-P

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

· **UN "Model Regulation":**

UN3316, CHEMICAL KITS, 9, III

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **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

(Contd. on page 10)

Safety Data Sheet acc. to OSHA HCS

Date Prepared: 06/03/2016

Reviewed On: 04/18/2016

Product Name: TB Carbolfuchsin KF

(Contd. of page 9)

64-17-5	ethanol
---------	---------

· 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:

64-17-5	ethanol
---------	---------

· Carcinogenic categories

· TLV (Threshold Limit Value established by ACGIH)

67-63-0	isopropanol	A4
108-95-2	phenol	A4
64-17-5	ethanol	A4

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms



GHS02 GHS05 GHS08

· Signal word Danger

· Hazard-determining components of labeling:

phenol
basic fuchsin

· Hazard statements

H226 Flammable liquid and vapor.
H314 Causes severe skin burns and eye damage.
H341 Suspected of causing genetic defects.
H350 May cause cancer.

· Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P240 Ground/bond container and receiving equipment.

(Contd. on page 11)

Safety Data Sheet acc. to OSHA HCS

Date Prepared: 06/03/2016

Reviewed On: 04/18/2016

Product Name: TB Carbofuchsin KF

(Contd. of page 10)

- P233 *Keep container tightly closed.*
- P242 *Use only non-sparking tools.*
- P243 *Take precautionary measures against static discharge.*
- P264 *Wash thoroughly after handling.*
- P201 *Obtain special instructions before use.*
- P202 *Do not handle until all safety precautions have been read and understood.*
- P303+P361+P353 *If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.*
- P305+P351+P338 *If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*
- P310 *Immediately call a POISON CENTER/doctor.*
- P321 *Specific treatment (see on this label).*
- P304+P340 *IF INHALED: Remove person to fresh air and keep comfortable for breathing.*
- P363 *Wash contaminated clothing before reuse.*
- P308+P313 *IF exposed or concerned: Get medical advice/attention.*
- P301+P330+P331 *If swallowed: Rinse mouth. Do NOT induce vomiting.*
- P370+P378 *In case of fire: Use for extinction: CO₂, powder or water spray.*
- P405 *Store locked up.*
- P403+P235 *Store in a well-ventilated place. Keep cool.*
- P501 *Dispose of contents/container in accordance with local/regional/national/international regulations.*

· National regulations

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

· Information about limitation of use:

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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 SDS:

Environmental, Health & Safety
Created by Michael J. Spinazzola

· Contact: Technical Service Representative**· Date of preparation / last revision 06/03/2016 / -**

(Contd. on page 12)

US

Safety Data Sheet acc. to OSHA HCS

Date Prepared: 06/03/2016

Reviewed On: 04/18/2016

Product Name: TB Carbofuchsin KF

(Contd. of page 11)

Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 3: Acute toxicity – Category 3
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Muta. 2: Germ cell mutagenicity – Category 2
Carc. 1B: Carcinogenicity – Category 1B
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

US