

Reviewed On: 06/19/2013 Date Prepared: 06/19/2013

#### 1 Identification

- · Product Identifier
- · Product Name: TB Carbolfuchsin KF
- · Catalog Number: 212518
- · Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- · Application of the substance / the preparation In-vitro Diagnostics
- · 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
- · 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 Hazard(s) identification

· Classification of the substance or mixture



GHS02 Flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS08 Health hazard

Muta. 2 H341 Suspected of causing genetic defects.

H350 May cause cancer. Carc. 1B



**GHS05 Corrosion** 

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

Classification according to Directive 67/548/EEC or Directive 1999/45/EC



T: Toxic

R45: May cause cancer.



Xn; Harmful

Harmful in contact with skin and if swallowed.



🗶 Xi; Irritant

(Contd. on page 2)



Date Prepared: 06/19/2013 Reviewed On: 06/19/2013

Product Name: TB Carbolfuchsin KF

(Contd. of page 1)

R36/38: Irritating to eyes and skin.

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
- · 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 vapour.

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/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P281 Use personal protective equipment as required.
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): Remove/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 or doctor/physician.

P321 Specific treatment (see on this label).

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

P363 Wash contaminated clothing before reuse.

(Contd. on page 3)



Reviewed On: 06/19/2013 Date Prepared: 06/19/2013

Product Name: TB Carbolfuchsin KF

(Contd. of page 2)

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.

Dispose of contents/container in accordance with local/regional/national/ P501

international regulations.

· NFPA ratings (scale 0-4)



Health = 2Flammability = 3Reactivity = 0

· HMIS ratings (scale 0-4)



Health = \*2Flammability = 3REACTIVITY  $\bigcirc$  Reactivity = 0

- · 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	Xi R36; F R11 R67	19.6%		
CAS: 108-95-2 EINECS: 203-632-7	phenol	T R23/24/25; C R34; Xn R48/20/21/22-68 Muta. Cat. 3	4.9%		
CAS: 64-17-5 EINECS: 200-578-6	ethanol	F R10	4.7%		
CAS: 569-61-9 EINECS: 209-321-2	basic fuchsin	T Carc. Cat. 2 R45	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 Seek medical treatment in case of complaints.

(Contd. on page 4)



Reviewed On: 06/19/2013 Date Prepared: 06/19/2013

Product Name: TB Carbolfuchsin KF

(Contd. of page 3)

- · After skin contact Immediately wash with water and soap and rinse thoroughly.
- · After eve 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.
- · 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.

#### 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.

(Contd. on page 5)



Date Prepared: 06/19/2013 Reviewed On: 06/19/2013

Product Name: TB Carbolfuchsin KF

(Contd. of page 4)

· 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
- · 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:

#### 67-63-0 isopropanol

PEL 980 mg/m<sup>3</sup>, 400 ppm

REL Short-term value: 1225 mg/m³, 500 ppm

Long-term value: 980 mg/m³, 400 ppm

TLV Short-term value: 984 mg/m³, 400 ppm

Long-term value: 492 mg/m³, 200 ppm

#### 108-95-2 phenol

PEL 19 mg/m³, 5 ppm

Skin

REL Short-term value: C 60\* mg/m³, C 15.6\* ppm

Long-term value: 19 mg/m<sup>3</sup>, 5 ppm

\*15-min

TLV 19 mg/m<sup>3</sup>, 5 ppm

Skin; BEI

#### 64-17-5 ethanol

PEL 1900 mg/m<sup>3</sup>, 1000 ppm

REL | 1900 mg/m³, 1000 ppm

TLV | 1880 mg/m³, 1000 ppm

- · Additional information: The lists that were valid during the creation were used as basis.
- · 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.

Avoid contact with the eyes and skin.

(Contd. on page 6)



Date Prepared: 06/19/2013 Reviewed On: 06/19/2013

Product Name: TB Carbolfuchsin KF

(Contd. of page 5)

· 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

· 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

· Solvent content:

Organic solvents: 29 %

• Other information No further relevant information available.

- US



Date Prepared: 06/19/2013 Reviewed On: 06/19/2013

Product Name: TB Carbolfuchsin KF

(Contd. of page 6)

# 10 Stability and reactivity

- · Reactivity
- · 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 (HCI)

Carbon dioxide (CO2)

### 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC5	· LD/LC50 values that are relevant for classification:			
108-95-	108-95-2 phenol			
Oral		300 mg/kg (mus)		
		317 mg/kg (rat)		
Dermal	LD50	670 mg/kg (rat)		
64-17-5	64-17-5 ethanol			
Oral	LD50	3450 mg/kg (MOU)		
		7060 mg/kg (rat)		
569-61-	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.
- · Sensitization: No sensitizing effects known.
- · 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

(Contd. on page 8)



Date Prepared: 06/19/2013 Reviewed On: 06/19/2013

Product Name: TB Carbolfuchsin KF

(Contd. of page 7)

· Carcinogenic categories

Garcinog	enic categories			
· IARC (International Agency for Research on Cancer)				
67-63-0	isopropanol	3		
108-95-2	•	3		
569-61-9	basic fuchsin	2B		
· NTP (National Toxicology Program)				
569-61-9	basic fuchsin	R		

### 12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · 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.
- · Ecotoxical effects:
- · Other information:

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

- · Additional ecological information:
- · General notes: Water danger class 3 (Self-assessment): extremely hazardous for water.
- · 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

(Contd. on page 9)



Date Prepared: 06/19/2013 Reviewed On: 06/19/2013

Product Name: TB Carbolfuchsin KF

ADD WIDO MATA	0010
ADR, IMDG, IATA	3316
UN proper shipping name	
DOT, IMDG, IATA	CHEMICAL KITS
ADR	3316 CHEMICAL KITS
Transport hazard class(es)	
DOT, IATA	
Class	9 Miscellaneous dangerous substances and articles.
Label	9
ADR	
Class	9 (M11) Miscellaneous dangerous substance and articles
Label	9
IMDG	
Class	3 Flammable liquids.
Label	9
Packing group	
DOT, ADR, IMDG, IATA	III
Environmental hazards: Marine pollutant:	No
Special precautions for user	Warning: Miscellaneous dangerous substance and articles
EMS Number:	F-A, <u>S-P</u>
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	I <b>l of</b> Not applicable.



Date Prepared: 06/19/2013 Reviewed On: 06/19/2013

Product Name: TB Carbolfuchsin KF

(Contd. of page 9)

· 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

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

(Contd. on page 11)



Date Prepared: 06/19/2013 Reviewed On: 06/19/2013

Product Name: TB Carbolfuchsin KF

(Contd. of page 10)

#### · Hazard-determining components of labeling:

phenol

basic fuchsin

#### · Hazard statements

H226 Flammable liquid and vapour.

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/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P281 Use personal protective equipment as required.
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P243 Take precautionary measures against static discharge.

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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): Remove/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 or doctor/physician.

P321 Specific treatment (see on this label).

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position

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

#### · Water hazard class:

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

· 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 (Contd. on page 12)



Date Prepared: 06/19/2013 Reviewed On: 06/19/2013

Product Name: TB Carbolfuchsin KF

(Contd. of page 11)

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

#### · Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement

concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

US