

07/22/2013

Kit Components

Product code	Description
212522	TB Stain Set K

Components:

212522a	TB Carbofuchsin KF
212522b	TB Decolorizer
212522c	TB Brilliant Green K

Date Prepared: 07/22/2013

Reviewed On: 06/14/2013

1 Identification

- **Product Identifier**
- **Product Name:** TB Carbofuchsin KF
(TB Stain Set K)
- **Catalog Number:** 212522
- **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.

Carc. 1B H350 May cause cancer.



GHS05 Corrosion

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

Acute Tox. 5 H303 May be harmful if swallowed.

Acute Tox. 5 H333 May be harmful if inhaled.

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



T; Toxic

R45: May cause cancer.

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 **Xn; Harmful**

R21/22-40: Harmful in contact with skin and if swallowed. Limited evidence of a carcinogenic effect.

 **Xi; Irritant**

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.

H303 May be harmful if swallowed.

H333 May be harmful if inhaled.

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.

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- 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+P312 IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.
- P340 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.

· NFPA ratings (scale 0-4)

 Health = 2
 Flammability = 3
 Reactivity = 0

· HMIS ratings (scale 0-4)

 Health = *2
 Flammability = 3
 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%

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Product Name: TB Carbolfuchsin KF
(TB Stain Set K)

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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.
- **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.
- **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).
- **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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Product Name: TB Carbofuchsin KF
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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.
- **Conditions for safe storage, including any incompatibilities**
- **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.
- **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 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

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Product Name: TB Carbofuchsin KF
(TB Stain Set K)

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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.

· **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.

· **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 %

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Product Name: TB Carbolfuchsin KF
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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.

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:**
Nitrogen oxides (NO_x)
Hydrogen chloride (HCl)
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)
64-17-5 ethanol		
Oral	LD50	3450 mg/kg (MOU) 7060 mg/kg (rat)
569-61-9 basic fuchsin		
Oral	LD50	500 mg/kg (mou)

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Product Name: TB Carbolfuchsin KF
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67-63-0 isopropanol

Oral	LD50	5045 mg/kg (rat)
Dermal	LD50	12800 mg/kg (rab)

- **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

- **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

- **NTP (National Toxicology Program)**

569-61-9	basic fuchsin	R
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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.
- **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.

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Reviewed On: 06/14/2013



Product Name: TB Carbofuchsin KF
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13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**
 Dispose of material in accordance with federal (40 CFR 261.3), state and local requirements.
 RCRA hazardous waste - RCRA # D001 (ignitable).
 Must not be disposed of with solid waste.
- **Uncleaned packagings:**
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

- | | |
|-------------------------------------|---|
| · UN-Number | |
| · DOT | UN3316 |
| · ADR, IMDG, IATA | 3316 |
| · UN proper shipping name | |
| · DOT, IMDG, IATA | CHEMICAL KIT |
| · ADR | 3316 CHEMICAL KITS |
| · Transport hazard class(es) | |
| · DOT, IMDG, IATA | |
| |  |
| · Class | 9 Miscellaneous dangerous substances and articles. |
| · Label | 9 |
| · ADR | |
| |  |
| · Class | 9 (M11) Miscellaneous dangerous substances and articles |
| · Label | 9 |
| · Packing group | |
| · DOT, ADR, IMDG, IATA | III |

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Product Name: TB Carbofuchsin KF
(TB Stain Set K)

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· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Warning: Miscellaneous dangerous substances and articles
· EMS Number:	F-A, <u>S-P</u>
· 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

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).

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Product Name: TB Carbofuchsin KF
(TB Stain Set K)

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· Hazard pictograms


GHS02 GHS05 GHS08

· Signal word Danger

· Hazard-determining components of labeling:

 phenol
 basic fuchsin

· Hazard statements

H226 Flammable liquid and vapour.
 H303 May be harmful if swallowed.
 H333 May be harmful if inhaled.
 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+P312 IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.
 P340 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.

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Reviewed On: 06/14/2013

Product Name: TB Carbolfuchsin KF
(TB Stain Set K)

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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 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
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

Date Prepared: 07/22/2013

Reviewed On: 06/14/2013

1 Identification

- **Product Identifier**
- **Product Name:** **TB Decolorizer**
(TB Stain Set K)
- **Catalog Number:** 212522
- **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. 2 H225 Highly flammable liquid and vapour.

GHS08 Health hazard

*STOT SE 2 H371 May cause damage to organs.**Acute Tox. 5 H303 May be harmful if swallowed.**Acute Tox. 5 H333 May be harmful if inhaled.*

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



Xn; Harmful

R40-68/20/21/22: Limited evidence of a carcinogenic effect. Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.

F; Highly flammable

R11: Highly flammable.

- **Classification system:**

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

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Safety Data Sheet
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Date Prepared: 07/22/2013

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Product Name: TB Decolorizer
(TB Stain Set K)

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· **Label elements**· **GHS label elements**

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

· **Hazard pictograms**

GHS02 GHS08

· **Signal word** *Danger*· **Hazard-determining components of labeling:***methanol*· **Hazard statements***H225 Highly flammable liquid and vapour.**H303 May be harmful if swallowed.**H333 May be harmful if inhaled.**H371 May cause damage to organs.*· **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.**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.**P270**Do not eat, drink or smoke when using this product.**P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.**P309+P311**IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.**P304+P312**IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.**P312**Call a POISON CENTER or doctor/physician if you feel unwell.**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 = 2**Flammability = 3**Reactivity = 0*

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Safety Data Sheet
 acc. to OSHA HCS

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**Product Name: TB Decolorizer
 (TB Stain Set K)**

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· HMIS ratings (scale 0-4)

HEALTH	2	Health = *2
FIRE	3	Flammability = 3
REACTIVITY	0	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: 64-17-5 EINECS: 200-578-6	ethanol	F R10	92.3%
CAS: 67-56-1 EINECS: 200-659-6	methanol	T R23/24/25-39/23/24/25; F R11	4.7%
CAS: 7647-01-0 EINECS: 231-595-7	hydrochloric acid	C R34; Xi R37	3.0%

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

4 First-aid measures

- **Description of first aid measures**
- **General information** No special measures required.
- **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 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.

US

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Date Prepared: 07/22/2013

Reviewed On: 06/14/2013

Product Name: TB Decolorizer
(TB Stain Set K)

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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).
- **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:** 15 - 30 °C
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed containers.
- **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.

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Safety Data Sheet
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Product Name: TB Decolorizer
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· Control parameters
· 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

67-56-1 methanol

PEL	260 mg/m ³ , 200 ppm
REL	Short-term value: 325 mg/m ³ , 250 ppm Long-term value: 260 mg/m ³ , 200 ppm Skin
TLV	Short-term value: 328 mg/m ³ , 250 ppm Long-term value: 262 mg/m ³ , 200 ppm Skin; BEI

7647-01-0 hydrochloric acid

PEL	Short-term value: C 7 mg/m ³ , C 5 ppm
REL	Short-term value: C 7 mg/m ³ , C 5 ppm
TLV	Short-term value: C 2.98 mg/m ³ , C 2 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.
 Wash hands before breaks and at the end of work.

· 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

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Product Name: TB Decolorizer
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Color:	Clear
Odor:	Characteristic
Change in condition	
Melting point/Melting range:	Not determined
Boiling point/Boiling range:	78 °C (172 °F)
Flash point:	15.5 °C (60 °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:	3.8 Vol %
Upper:	13.5 Vol %
Vapor pressure at 25 °C (77 °F):	59.0 hPa (44 mm Hg)
Density at 25 °C (77 °F):	1.53 g/cm ³
Solubility in / Miscibility with Water:	Soluble
Solvent content:	
Organic solvents:	97.0 %
Other information	No further relevant information available.

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:**
Carbon dioxide (CO₂)
Hydrogen chloride (HCl)

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Product Name: TB Decolorizer
(TB Stain Set K)

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11 Toxicological information

- **Information on toxicological effects**

- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

64-17-5 ethanol

Oral	LD50	3450 mg/kg (MOU)
		7060 mg/kg (rat)

67-56-1 methanol

Oral	LD50	5628 mg/kg (rat)
------	------	------------------

- **Primary irritant effect:**

- **on the skin:** No irritating effect.

- **on the eye:** No irritating effect.

- **Sensitization:** No sensitizing effects known.

- **Subacute to chronic toxicity:**

Target organs: liver, gastrointestinal tumors, blood, lymphomas.

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:

Product is suspected to cause birth defects.

- **Carcinogenic categories**

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

7647-01-0	hydrochloric acid	3
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- **NTP (National Toxicology Program)**

None of the ingredients is listed.

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.

- **Additional ecological information:**

- **General notes:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

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

13 Disposal considerations

 · **Waste treatment methods**

 · **Recommendation**

Dispose of material in accordance with federal (40 CFR 261.3), state and local requirements.
 RCRA hazardous waste - RCRA # D001 (ignitable).

Must not be disposed of with solid waste.

 · **Uncleaned packagings:**

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

14 Transport information

 · **UN-Number**

· **DOT** UN3316
 · **ADR, IMDG, IATA** 3316

 · **UN proper shipping name**

· **DOT, IMDG, IATA** CHEMICAL KITS
 · **ADR** 3316 CHEMICAL KITS

 · **Transport hazard class(es)**

 · **DOT, IMDG, IATA**


· **Class** 9 Miscellaneous dangerous substances and articles.

· **Label** 9

 · **ADR**


· **Class** 9 (M11) Miscellaneous dangerous substances and articles

· **Label** 9

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· Packing group	
· DOT, ADR, IMDG, IATA	II
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Warning: Miscellaneous dangerous substances and articles
· Danger code (Kemler):	33
· 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, II

15 Regulatory information

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

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

7647-01-0	hydrochloric acid
-----------	-------------------

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

All ingredients are listed.

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

All ingredients are listed.

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

None of the ingredients is listed.

· **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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· **Carcinogenic categories**

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

64-17-5	ethanol	A4
7647-01-0	hydrochloric acid	A4

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Product Name: TB Decolorizer
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· GHS label elements

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

· Hazard pictograms

GHS02 GHS08

· Signal word *Danger***· Hazard-determining components of labeling:***methanol***· Hazard statements***H225 Highly flammable liquid and vapour.**H303 May be harmful if swallowed.**H333 May be harmful if inhaled.**H371 May cause damage to organs.***· 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.**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.**P270 Do not eat, drink or smoke when using this product.**P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.**P309+P311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.**P304+P312 IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.**P312 Call a POISON CENTER or doctor/physician if you feel unwell.**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****· Additional classification according to Decree on Hazardous Materials:**

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CERCLA: This product contains Hydrochloric Acid and Methanol which have a Reporting Quantity (RQ) of 5000 lbs. for each.

SARA 311/312: Subject to reporting.

313: Hydrochloric Acid and Methanol are subject to reporting.

TSCA: This product is exempt under TSCA.

· **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 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

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

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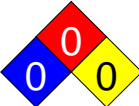
Date Prepared: 07/22/2013

Reviewed On: 12/04/2012

1 Identification

- **Product Identifier**
- **Product Name:** TB Brilliant Green K
- **Catalog Number:** 212522c
- **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**
The product is not classified according to the Globally Harmonized System (GHS).
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
This product contains no hazardous constituents, or the concentration of all chemical constituents are below the regulatory threshold limits described by Occupational Safety Health Administration Hazard Communication Standard 29 CFR 1910.1200, the Canada's Workplace Hazardous Materials Information System (WHMIS) and the European Directive 67/548/EEC and 1999/45/EC.
- **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** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **NFPA ratings (scale 0-4)**
 Health = 0
Flammability = 0
Reactivity = 0
- **HMIS ratings (scale 0-4)**

HEALTH	0	Health = 0
FIRE	0	Flammability = 0
REACTIVITY	0	Reactivity = 0

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Product Name: TB Brilliant Green K

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

3 Composition/information on ingredients

- **Chemical characterization: Substances**
- **Identification number(s):**
- **EC number:** 2317912
- **Chemical characterization: Mixture**
- **Description:** Mixture consisting of the following components.
- **Dangerous Components:** Void
- **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.
- **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.
- **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**
In certain fire conditions, traces of other toxic gases cannot be excluded.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

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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:** No special measures required.
- **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:** The product is not flammable
- **Conditions for safe storage, including any incompatibilities**
- **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 acids.
Store away from oxidizing agents.
Store away from metals.
Store away from organic material, and chlorinated solvents.
- **Further information about storage conditions:**
Store in cool, dry conditions in well sealed containers.
- **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 product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal Protective Equipment**
- **General protective and hygienic measures**
The usual precautionary measures for handling chemicals should be followed.
- **Breathing equipment:**
In case of brief exposure, use a chemical fume hood or a NIOSH/MSHA-approved respirator.

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· 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:	Green
Odor:	Odorless

· Change in condition	Undetermined
· Melting point/Melting range:	0 °C (32 °F)
· Boiling point/Boiling range:	100 °C (212 °F)

· **Flash point:** Not applicable

· **Danger of explosion:** Product does not present an explosion hazard.

· **Vapor pressure at 25 °C (77 °F):** 23 hPa (17 mm Hg)

· **Density at 25 °C (77 °F):** 0.99 g/cm³

· Solubility in / Miscibility with

Water: Soluble

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

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:

Carbon monoxide (CO) and carbon dioxide (CO₂)

Nitrogen oxides (NO_x)

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Sulfur oxides (SOx)

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11 Toxicological information**· Information on toxicological effects****· Acute toxicity:****· Primary irritant effect:****· on the skin:** No irritating effect.**· on the eye:** No irritating effect.**· Sensitization:** No sensitizing effects known.**· Subacute to chronic toxicity:**

Target organs: respiratory system, gastrointestinal, eyes and skin.

· Additional toxicological information:

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

Harmful

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

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

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.**· Ecotoxicological effects:****· Other information:**

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

· Additional ecological information:**· General notes:** Water hazard class 1 (Self-assessment): slightly hazardous for water.**· Results of PBT and vPvB assessment****· PBT:** Not applicable.**· vPvB:** Not applicable.**· Other adverse effects** No further relevant information available.

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Reviewed On: 12/04/2012

Product Name: TB Brilliant Green K

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13 Disposal considerations

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

14 Transport information

- | | |
|--|-----------------|
| · UN-Number | |
| · DOT, ADR, ADN, IMDG, IATA | Void |
| · UN proper shipping name | |
| · DOT, ADR, ADN, IMDG, IATA | Void |
| · Transport hazard class(es) | |
| · DOT, ADR, ADN, IMDG, IATA | |
| · Class | Void |
| · Packing group | |
| · DOT, ADR, IMDG, IATA | Void |
| · Environmental hazards: | |
| · Marine pollutant: | No |
| · Special precautions for user | Not applicable. |
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| · UN "Model Regulation": | - |

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **SARA Section 355 (extremely hazardous substances)**
 None of the ingredients is listed.
- **SARA Section 313 (specific toxic chemical listings)**
 None of the ingredients is listed.

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· TSCA (Toxic Substances Control Act)

All ingredients are listed.

· California Proposition 65 - Chemicals known to cause cancer

None of the ingredients is listed.

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

None of the ingredients is listed.

· GHS label elements Void**· Hazard pictograms** Void**· Signal word** Void**· Hazard statements** Void**· 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 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

EINECS: European Inventory of Existing Commercial Chemical Substances

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Product Name: TB Brilliant Green K

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)

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