

### 1 Identification of substance:

- **Product name:** TB Decolorizer TM
- **Catalog number:** 212512
- **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	70.0%
7647-01-0	hydrochloric acid	0.5%

### 3 Hazards identification

· **Hazard description:**



C Corrosive  
F Highly flammable

- **Information pertaining to particular dangers for man and environment**  
R 11 Highly flammable.  
R 34 Causes burns.

· **Classification system**

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

- **NFPA ratings (scale 0-4)**



Health = 3  
Fire = 3  
Reactivity = 0

### 4 First aid measures

· **General information**

Symptoms of poisoning may even occur after several hours; therefore provide medical observation for at least 48 hours after the accident.

- **After inhalation** Supply fresh air; consult doctor in case of complaints.
- **After skin contact** Immediately wash with water and soap and rinse thoroughly.

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- **After eye contact** Rinse opened eye for 15 minutes under running water. Then consult a doctor.
- **After swallowing** Call a doctor immediately.
- **Information for doctor** Show this product label or this MSDS.

### 5 Fire fighting measures

- **Suitable extinguishing agents**  
CO<sub>2</sub>, 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).
- **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:** 15 - 30 C
- **Information about storage in one common storage facility:**  
Do not store together with oxidizing and acidic materials.  
Do not store together with alkaline material.
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed containers.

### 8 Exposure controls 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 <sup>3</sup> , 400 ppm
REL	Short-term value: 1225 mg/m <sup>3</sup> , 500 ppm Long-term value: 980 mg/m <sup>3</sup> , 400 ppm
TLV	Short-term value: 984 mg/m <sup>3</sup> , 400 ppm Long-term value: 492 mg/m <sup>3</sup> , 200 ppm

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- **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:** Colorless  
**Odor:** Characteristic

· **Change in condition**

**Melting point/Melting range:** Not determined  
**Boiling point/Boiling range:** 82°C (180°F)

· **Flash point:** 16.7°C (62°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:** 3.0 Vol %  
**Upper:** 12.0 Vol %

· **Vapor pressure:** 43.0 hPa (32 mm Hg)

· **Density:** 1.53 g/cm<sup>3</sup>

· **Solubility in / Miscibility with**

**Water:** Soluble

· **pH-value:** 1.9

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- **Solvent content:**
- **Organic solvents:** 70.0 %

### 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Materials to be avoided:** Incompatibles materials: Strong Bases and oxidizers
- **Dangerous reactions** No dangerous reactions known
- **Dangerous products of decomposition:**  
Hydrogen chloride (HCl)  
Carbon dioxide (CO<sub>2</sub>)

### 11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** Caustic effect on skin and mucous membranes.
- **on the eye:** Strong caustic effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.  
Corrosive (causes skin burns)  
Harmful  
The product shows the following dangers according to internally approved calculation methods for preparations:

### 12 Ecological information:

- **Ecotoxicological effects:**
- **Other information:**  
The ecological effects have not been thoroughly investigated, but currently none have been identified.
- **General notes:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

### 13 Disposal considerations

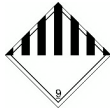
- **Product:**
- **Recommendation**  
Must not be disposed of with solid waste.  
Dispose of material in accordance with federal (40 CFR 261.3), state and local requirements.  
RCRA hazardous waste - RCRA # D001 (ignitable).  
RCRA hazardous waste - RCRA # D002 (corrosive).

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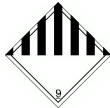
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- **Uncleaned packagings:**
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

**14 Transport information**· **DOT regulations:**

- **Hazard class:** 9
- **Identification number:** UN3316
- **Packing group:** II
- **Proper shipping name:** CHEMICAL KITS
- **Label:** 9

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

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

· **Maritime transport IMDG:**

- **IMDG Class:** 9
- **UN Number:** 3316
- **Label:** 9
- **Packaging group:** II
- **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:** II

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· **Proper shipping name: CHEMICAL KITS**

**15 Regulations**

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

7647-01-0	hydrochloric acid
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· **SARA Section 313 (specific toxic chemical listings)**

67-63-0	isopropanol
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7647-01-0	hydrochloric acid
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· **TSCA (Toxic Substances Control Act)**

67-63-0	isopropanol
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7647-01-0	hydrochloric acid
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· **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.

· **Carcinogenicity categories**

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

67-63-0	isopropanol	3
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7647-01-0	hydrochloric acid	3
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· **NTP (National Toxicology Program)**

None of the ingredients is listed.

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

None of the ingredients is listed.

· **Product related hazard information:**

The product has been classified and marked in accordance with regulations on hazardous materials.

· **Hazard symbols:**

C Corrosive

F Highly flammable

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

isopropanol

hydrochloric acid

· **Risk phrases:**

11 Highly flammable.

34 Causes burns.

· **Safety phrases:**

7/9 Keep container tightly closed and in a well-ventilated place.

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**Material Safety Data Sheet**  
acc. to ISO/DIS 11014

Printing date 01/11/2006

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- 16 *Keep away from sources of ignition - No smoking.*
- 26 *In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.*
- 36/37/39 *Wear suitable protective clothing, gloves and eye/face protection.*
- 45 *In case of accident or if you feel unwell, seek medical advice immediately.*
- 60 *This material and its container must be disposed of as hazardous waste.*

· **National regulations**

· **Additional classification according to Decree on Hazardous Materials:**

CERCLA: *This product contains Hydrochloric Acid which has a Reporting Quantity (RQ) of 5000 lbs.*

SARA: 311/312: *Subject to reporting.*

313: *Hydrochloric Acid and Isopropyl Alcohol are subject to reporting.*

TSCA: *This product is exempt under TSCA.*

· **Technical instructions (air):**

Class	Share in %
III	70.0

**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 cannot guarantee that these are the only hazards that exist.*

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

· **Contact:** *Technical Service Representative*