

Date Prepared: 03/01/2011

Reviewed On: 02/11/2011

1 Identification of the substance/mixture and of the company/undertaking

- **Product Identifier**
- **Product Name:** *TB Decolorizer TM*
- **Catalog Number:** *212512*
- **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*
- **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 Composition/information on ingredients

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

• **Dangerous Components:**

67-63-0	isopropanol	70.0%
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3 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
 *C; Corrosive*
R34: Causes burns.
-  *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.
- **Label elements**
- **Labelling according to EU guidelines:**
The product has been classified and marked in accordance with regulations on hazardous materials.
- **Code letter and hazard designation of product:**
*C Corrosive
F Highly flammable*
- **Hazard-determining components of labelling:**
*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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- 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.*

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



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

HEALTH	3	Health = 3
FIRE	3	Fire = 3
REACTIVITY	0	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.*
- **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 Firefighting measures

- **Suitable extinguishing agents**
CO₂, ABC multipurpose dry chemical or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:** *No special measures required.*

6 Accidental release measures

- **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.

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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.
- **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/personal protection

- **Additional information about design of technical systems:** No further data; see Section 7.

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

67-63-0 isopropanol

PEL	980 mg/m ³ , 400 ppm
REL	Short-term value: 1225 mg/m ³ , 500 ppm Long-term value: 980 mg/m ³ , 400 ppm
TLV	Short-term value: 984 mg/m ³ , 400 ppm Long-term value: 492 mg/m ³ , 200 ppm

- **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**
- **Appearance:**
- **Form:** Liquid
- **Color:** Colorless
- **Odor:** Characteristic

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· pH-value:	1.9
· 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 ³
· Solubility in / Miscibility with Water:	Soluble
· Solvent content: Organic solvents:	70.0 %

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Incompatible materials:** Incompatibles materials: Strong Bases and oxidizers
- **Hazardous decomposition products:**
Hydrogen chloride (HCl)
Carbon dioxide (CO₂)

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:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Corrosive (causes skin burns)
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

12 Ecological information

- **Aquatic toxicity:** No further relevant information available.

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- **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.*

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).
 RCRA hazardous waste - RCRA # D002 (corrosive).*
- **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
- **UN proper shipping name:** 3316 CHEMICAL KITS

- **Maritime transport IMDG:**



- **IMDG Class:** 9
- **UN Number:** 3316

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· 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
· Proper shipping name:	CHEMICAL KITS

15 Regulatory information

· SARA Section 355 (extremely hazardous substances)		
7647-01-0	hydrochloric acid	
· SARA Section 313 (specific toxic chemical listings)		
67-63-0	isopropanol	
7647-01-0	hydrochloric acid	
· 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		
· NTP (National Toxicology Program)		
None of the ingredients is listed.		
· TLV (Threshold Limit Value established by ACGIH)		
67-63-0	isopropanol	A4
7647-01-0	hydrochloric acid	A4

· **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

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Material Safety Data Sheet
acc. to ISO/DIS 11014

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reporting.
TSCA: This product is exempt under TSCA.

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*

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