

Date Prepared: 03/03/2011

Reviewed On: 02/11/2011

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

- **Product Identifier**
- **Product Name:** Gram Decolorizer
- **Catalog Number:** 212527
- **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	75.0%
67-64-1	acetone	25.0%

3 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
 *Xi; Irritant*
R36: Irritating to eyes.
-  *F; Highly flammable*
R11: Highly flammable.
- **Information concerning particular hazards for human and environment:** *Has a narcotizing effect.*
- **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:**
This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR), and the MSDS contains all of the information required by the CPR.
- **Code letter and hazard designation of product:**
Xi Irritant
F Highly flammable
- **Hazard-determining components of labelling:**
isopropanol
acetone
- **Risk phrases:**
11 Highly flammable.

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36 Irritating to eyes.

· Safety phrases:

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

16 Keep away from sources of ignition - No smoking.

24/25 Avoid contact with skin and eyes.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

60 This material and its container must be disposed of as hazardous waste.

· Classification system
· NFPA ratings (scale 0-4)


Health = 2

Fire = 3

Reactivity = 0

· HMIS ratings (scale 0-4)


Health = 2

Fire = 3

Reactivity = 0

4 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 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: 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.

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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 with chloroform.
 - Do not store with halogens.
- **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

EL (Canada (English))	Short-term value: 500 ppm Long-term value: 400 ppm Skin
PEL (USA)	980 mg/m ³ , 400 ppm
REL (USA)	Short-term value: 1225 mg/m ³ , 500 ppm Long-term value: 980 mg/m ³ , 400 ppm
TLV (USA)	Short-term value: 984 mg/m ³ , 400 ppm Long-term value: 492 mg/m ³ , 200 ppm

67-64-1 acetone

EL (Canada (English))	Short-term value: 500 ppm Long-term value: 250 ppm
PEL (USA)	2400 mg/m ³ , 1000 ppm
REL (USA)	590 mg/m ³ , 250 ppm
TLV (USA)	Short-term value: 1782 mg/m ³ , 750 ppm Long-term value: 1188 mg/m ³ , 500 ppm BEI

- **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.
 - Use suitable respiratory protective device in case of insufficient ventilation.

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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
· General Information
· Appearance:

Form: Liquid
Color: Colorless
 Clear

· Odor: Alcohol-like

· Change in condition

Melting point/Melting range: Not determined
Boiling point/Boiling range: 56.1 - 82°C

· Flash point: -6.7°C

· Ignition temperature: 425.0°C

· 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: 3.5 Vol %
Upper: 18.0 Vol %

· Vapor pressure at 20°C: 186.0 hPa

· Density at 20°C: 2.0 - 2.1 g/cm³
· Solubility in / Miscibility with

Water: Soluble

· Solvent content:

Organic solvents: 100.0 %

10 Stability and reactivity
· Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

· Hazardous decomposition products: Carbon monoxide (CO) and carbon dioxide (CO₂)

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11 Toxicological information

· **Acute toxicity:**

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

67-63-0 isopropanol

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

67-64-1 acetone

Oral	LD50	5800 mg/kg (rat)
Dermal	LD50	20000 mg/kg (rbt)

· **Primary irritant effect:**

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

· **on the eye:** Irritating effect.

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

· **Additional toxicological information:**

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

12 Ecological information

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

· **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.

Must adhere to official regulations.

· **Uncleaned packagings:**

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

14 Transport information

· **DOT regulations:**



· **Hazard class:** 9

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

- **TDG (Transport dangerous goods):**



- **TDG class:** 9 (M11) Miscellaneous dangerous substances and articles
- **UN-Number:** 3316
- **Packaging group:** II

- **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
- **Proper shipping name:** CHEMICAL KITS

15 Regulatory information

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

None of the ingredients is listed.

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

67-63-0 isopropanol

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

All ingredients are listed.

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

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· **Carcinogenic categories**· **NTP (National Toxicology Program)**

None of the ingredients is listed.

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

67-63-0 isopropanol

A4

67-64-1 acetone

A4

· **Canadian Substance Listing**· **Canadian Domestic Substance List (DSL)**

67-64-1 acetone

· **Canadian Ingredient Disclosure List (limit 0.1%)**

None of the ingredients is listed.

· **Canadian Ingredient Disclosure List (limit 1%)**

All ingredients are listed.

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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