



Date Prepared: 07/31/2007

Reviewed On: 07/24/2007

1 Identification of substance:

- **Product name:** Gram Decolorizer
- **Catalog number:** 212527
- **Manufacturer/Supplier:**
BD Diagnostic Systems
7 Loveton Circle
Sparks, MD 21152
Telephone: (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	75.0%
67-64-1	acetone	25.0%

3 Hazards identification

· **Hazard description:**



Xi Irritant
F Highly flammable

· **Information pertaining to particular dangers for man and environment**

R 11 Highly flammable.

R 36 Irritating to eyes.

· **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 = 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.

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- **Information for doctor** Show this product label or this MSDS.
- **The following symptoms may occur:**
 - Headache
 - Dizziness

5 Fire fighting 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

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:** Wipe up with damp sponge or mop.
- **Measures for cleaning/collecting:** No special measures required.
- **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 with chloroform.
 - Do not store with halogens.
 - **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.

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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

67-64-1 acetone

PEL	2400 mg/m ³ , 1000 ppm
REL	590 mg/m ³ , 250 ppm
TLV	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.

· **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
	Clear
Odor:	Alcohol-like

· **Change in condition**

Melting point/Melting range:	Not determined
Boiling point/Boiling range:	56.1 - 82°C (133 - 180°F)

· **Flash point:** -6.7°C (20°F)

· **Ignition temperature:** 425.0°C (797°F)

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· 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 (68°F):	186.0 hPa (140 mm Hg)
· Density at 20°C (68°F):	2.0 - 2.1 g/cm ³
· 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.
- **Dangerous reactions** No dangerous reactions known
- **Dangerous products of decomposition:** Carbon monoxide (CO) and carbon dioxide (CO₂)

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:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Subacute to chronic toxicity:** Target organs: kidney, spleen, and liver.

· **Additional toxicological information:**

Irritant

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

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12 Ecological information:

- **Ecotoxicological effects:**
- **Aquatic toxicity:**
This material is not expected to be toxic to aquatic life. The LC50/96-hour values for fish are greater than 100 mg/l
- **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, F003 (ignitable).
- **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 (M1) Miscellaneous dangerous substances and articles
- **UN-Number:** 3316
- **Packaging group:** II
- **Description of goods:** 3316 CHEMICAL KIT

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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 Regulations

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.	
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
NTP (National Toxicology Program)	
None of the ingredients is listed.	
TLV (Threshold Limit Value established by ACGIH)	
67-64-1	acetone
	A4

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Product related hazard information:

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

Hazard symbols:

- Xi Irritant*
- F Highly flammable*

Hazard-determining components of labeling:

- isopropanol*
- acetone*

Risk phrases:

- 11 Highly flammable.*
- 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.*

National regulations

Additional classification according to Decree on Hazardous Materials:

CERCLA: This product contains Acetone which has a Reporting Quantity (RQ) of 5000#.

SARA 311/312: Subject to reporting.

313: Acetone and Isopropyl Alcohol are subject to reporting.

TSCA: This product is exempt under TSCA.

Technical instructions (air):

Class	Share in %
III	100.0

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 can not guarantee that these are the only hazards that exist.

Department issuing MSDS:

Safety and Environment Department

MSDS created by Michael J. Spinazzola

Contact: Technical Service Representative