

1 Identification of substance:

· **Product details:**

· **Product name:** Gram Decolorizer

· **Catalog number:** 212528

· **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	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**

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.*

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- **After swallowing** Call a doctor immediately.
- **Information for doctor** Show this label.

5 Fire fighting measures

- **Suitable extinguishing agents**
CO₂, extinguishing powder 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 with halogens.
Do not store with chloroform.
- **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 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: (1230) mg/m ³ , (500) ppm Long-term value: (983) mg/m ³ , (400) ppm NIC-200; 491; 400; 984; A 4

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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. latex, 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:	56.1 - 82°C (133 - 180°F)

· **Flash point:** -6.7°C (20°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:	3.5 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/cm³

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- | | |
|---|----------------|
| · Solubility in / Miscibility with Water: | Soluble |
| · pH-value: | Not applicable |
| · Solvent content: | |
| Organic solvents: | 100.0 % |

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Materials to be avoided:** Incompatible materials: strong acids and oxidizers.
- **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	4570 mg/kg (rat)
Dermal	LD50	13400 mg/kg (rab)
Inhalative	LC50/4 h	30 mg/l (rat)

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:

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.

USA

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13 Disposal considerations

- **Product:**
- **Recommendation**
Must not be disposed of with solid waste.
Must adhere to state and federal regulations.
Disposal must be made according to the regulations found in 40 CFR 261.
RCRA hazardous waste - RCRA # D001, F003 (ignitable, toxic).
- **Uncleaned packagings:**
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information· **DOT regulations:**

- **Hazard class:** 3
- **Identification number:** UN1993
- **Packing group:** II
- **Proper shipping name (technical name):** FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL)
- **Label:** 3

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

- **ADR/RID class:** 3 (F1) Flammable liquids
- **Danger code (Kemler):** 33
- **UN-Number:** 1993
- **Packaging group:** II
- **Description of goods:** 1993 FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL)

· **Maritime transport IMDG:**

- **IMDG Class:** 3
- **UN Number:** 1993
- **Label:** 3
- **Packaging group:** II
- **EMS Number:** F-E,S-E
- **Marine pollutant:** No

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· **Proper shipping name:** FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL)

· **Air transport ICAO-TI and IATA-DGR:**



· ICAO/IATA Class:	3
· UN/ID Number:	1993
· Label	3
· Packaging group:	II
· Proper shipping name:	FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL)

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**

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

· **MAK (German Maximum Workplace Concentration)**

None of the ingredients is listed.

· **Product related hazard informations:**

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 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.

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

· Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

16 Other information:

To the best of our knowledge, the information contained herein is accurate. However, neither BD 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