

Safety Data Sheet acc. to OSHA HCS

Date Prepared: 05/02/2017

Reviewed On: 04/25/2017

1 Identification

- **Product Identifier:**
- **Product Name:** Gram Decolorizer
- **Catalog Number:** 212527
- **Application of the substance / the mixture** Laboratory Chemicals
- **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
Email Address: Technical_Services@bd.com
- **Information Department:** Technical Service

2 Hazard(s) identification

- **Classification of the substance or mixture**



Flam. Liq. 2 H225 Highly flammable liquid and vapor.



Eye Irrit. 2A H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

- **Label elements**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS02 GHS07

- **Signal word** Danger

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

isopropanol
acetone

(Contd. on page 2)

US

Safety Data Sheet acc. to OSHA HCS

Date Prepared: 05/02/2017

Reviewed On: 04/25/2017

Product Name: Gram Decolorizer

(Contd. of page 1)

· Hazard statements

H225 Highly flammable liquid and vapor.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.

· Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 P240 Ground/bond container and receiving equipment.
 P241 Use explosion-proof electrical/ventilating/lighting/equipment.
 P242 Use only non-sparking tools.
 P243 Take precautionary measures against static discharge.
 P261 Avoid breathing dust/fume/gas/mist/vapors/spray
 P264 Wash thoroughly after handling.
 P271 Use only outdoors or in a well-ventilated area.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P312 Call a poison center/doctor if you feel unwell.
 P337+P313 If eye irritation persists: Get medical advice/attention.
 P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 P403+P235 Store in a well-ventilated place. Keep cool.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· NFPA ratings (scale 0-4)


Health = 2
 Flammability = 3
 Reactivity = 0

· HMIS ratings (scale 0-4)


HEALTH 2 Health = 2
 FIRE 3 Flammability = 3
 REACTIVITY 0 Reactivity = 0

· Other hazards
· Results of PBT and vPvB assessment

· PBT: Not applicable.

(Contd. on page 3)

Safety Data Sheet acc. to OSHA HCS

Date Prepared: 05/02/2017

Reviewed On: 04/25/2017

Product Name: Gram Decolorizer

(Contd. of page 2)

· **vPvB:** Not applicable.

3 Composition/information on ingredients

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

· **Dangerous Components:**

CAS: 67-63-0	isopropanol	75.0%
EINECS: 200-661-7	Flam. Liq. 2, H225; Eye Irrit. 2A, H319; STOT SE 3, H336	
CAS: 67-64-1	acetone	25.0%
EINECS: 200-662-2	Flam. Liq. 2, H225; Eye Irrit. 2A, H319; STOT SE 3, H336	

- **Additional information** Risk phrases refer to section 15.

4 First-aid measures

- **Description of 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**
- **Most important symptoms and effects, both acute and delayed**
Headache
Dizziness
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents**
CO₂, ABC multipurpose dry chemical or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture**
No further relevant information available.

(Contd. on page 4)

Safety Data Sheet acc. to OSHA HCS

Date Prepared: 05/02/2017

Reviewed On: 04/25/2017

Product Name: Gram Decolorizer

(Contd. of page 3)

- **Advice for firefighters**
- **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.

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.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **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.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

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

(Contd. on page 5)

US

Safety Data Sheet acc. to OSHA HCS

Date Prepared: 05/02/2017

Reviewed On: 04/25/2017

Product Name: Gram Decolorizer

(Contd. of page 4)

· **Control parameters**

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

67-63-0 isopropanol

PEL	Long-term value: 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 BEI

67-64-1 acetone

PEL	Long-term value: 2400 mg/m ³ , 1000 ppm
REL	Long-term value: 590 mg/m ³ , 250 ppm
TLV	Short-term value: 1187 mg/m ³ , 500 ppm Long-term value: 594 mg/m ³ , 250 ppm BEI

· **Ingredients with biological limit values:**

67-63-0 isopropanol

BEI	40 mg/L Medium: urine Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific)
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67-64-1 acetone

BEI	50 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific)
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· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**

· **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.

(Contd. on page 6)

Safety Data Sheet acc. to OSHA HCS

Date Prepared: 05/02/2017

Reviewed On: 04/25/2017

Product Name: Gram Decolorizer

(Contd. of page 5)

· **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

· **Information on basic 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 (133-179.6 °F)

· **Flash point:** -6.7 °C (19.9 °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 (139.5 mm Hg)

· **Density at 20 °C (68 °F):** 2.0 - 2.1 g/cm³

· **Solubility in / Miscibility with**

Water: Soluble

· **Other information** No further relevant information available.

Safety Data Sheet acc. to OSHA HCS

Date Prepared: 05/02/2017

Reviewed On: 04/25/2017

Product Name: Gram Decolorizer

(Contd. of page 6)

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** Carbon monoxide (CO) and carbon dioxide (CO₂)

11 Toxicological information

- **Information on toxicological effects**
- **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

- **Carcinogenic categories**

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

67-63-0	isopropanol	3
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- **NTP (National Toxicology Program)**

None of the ingredients is listed.

(Contd. on page 8)

Safety Data Sheet acc. to OSHA HCS

Date Prepared: 05/02/2017

Reviewed On: 04/25/2017

Product Name: Gram Decolorizer

(Contd. of page 7)

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** This material is not expected to be toxic to aquatic life.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Other information:**
The ecological effects have not been thoroughly investigated, but currently none have been identified.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

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 (unused), F003 (spent).
- **Uncleaned packagings:**
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

- **UN-Number**
- **DOT** UN3316
- **IMDG, IATA** 3316

(Contd. on page 9)

US

Safety Data Sheet acc. to OSHA HCS

Date Prepared: 05/02/2017

Reviewed On: 04/25/2017

Product Name: Gram Decolorizer

(Contd. of page 8)

· UN proper shipping name · IMDG, IATA	CHEMICAL KITS
· Transport hazard class(es) · DOT, IMDG, IATA	
	
· Class	9 Miscellaneous dangerous substances and articles
· Label	9
· Packing group · DOT, IMDG, IATA	II
· Environmental hazards: · Marine pollutant:	No
· Special precautions for user · EMS Number:	Warning: Miscellaneous dangerous substances and articles F-A, S-P
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· UN "Model Regulation":	UN3316, CHEMICAL KITS, 9, II

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **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.

(Contd. on page 10)

Safety Data Sheet acc. to OSHA HCS

Date Prepared: 05/02/2017

Reviewed On: 04/25/2017

Product Name: Gram Decolorizer

(Contd. of page 9)

· **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**

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

67-63-0	isopropanol	A4
67-64-1	acetone	A4

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS02 GHS07

· **Signal word** Danger

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

isopropanol

acetone

· **Hazard statements**

H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

· **Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

(Contd. on page 11)

Safety Data Sheet acc. to OSHA HCS

Date Prepared: 05/02/2017

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Product Name: Gram Decolorizer

(Contd. of page 10)

- P280** Wear protective gloves/protective clothing/eye protection/face protection.
- P303+P361+P353** If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+P340** IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338** If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P312** Call a poison center/doctor if you feel unwell.
- P337+P313** If eye irritation persists: Get medical advice/attention.
- P370+P378** In case of fire: Use for extinction: CO₂, powder or water spray.
- P403+P233** Store in a well-ventilated place. Keep container tightly closed.
- P403+P235** Store in a well-ventilated place. Keep cool.
- P405** Store locked up.
- P501** Dispose of contents/container in accordance with local/regional/national/international regulations.

- **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.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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 SDS:**
 - Environmental, Health & Safety
 - Created by Michael J. Spinazzola
- **Contact:** Technical Service Representative
- **Abbreviations and acronyms:**
 - IMDG: International Maritime Code for Dangerous Goods
 - DOT: US Department of Transportation
 - IATA: International Air Transport Association
 - ACGIH: American Conference of Governmental Industrial Hygienists
 - EINECS: European Inventory of Existing Commercial Chemical Substances
 - ELINCS: European List of Notified Chemical Substances

(Contd. on page 12)

US



Safety Data Sheet
acc. to OSHA HCS

Date Prepared: 05/02/2017

Reviewed On: 04/25/2017

Product Name: Gram Decolorizer

(Contd. of page 11)

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flam. Liq. 2: Flammable liquids – Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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