

Reviewed On: 04/09/2015 Date Prepared: 04/09/2015

1 Identification

· Product Identifier

· Product Name: Gram Decolorizer

· Catalog Number: 212528

· Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.

· Application of the substance / the mixture In-vitro Diagnostics

· 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

· 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 Hazard(s) identification

· Classification of the substance or mixture



GHS02 Flame

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



GHS07

Eye Irrit. 2A H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

· Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Xi; Irritant

R36: Irritating to eyes.



F; Highly flammable

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
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS). (Contd. on page 2)



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· 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.

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

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

P280 Wear protective gloves / eye protection / face protection.

P280 Wear eye protection / face protection.

P240 Ground/bond container and receiving equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P264 Wash thoroughly after handling.

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

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated

clothing. Rinse skin with water/shower.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

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.

P405 Store locked up.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container in accordance with local/regional/national/

international regulations.

· NFPA ratings (scale 0-4)



Health = 2 Flammability = 3 Reactivity = 0



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· HMIS ratings (scale 0-4)

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 2 Health = 2 3 Flammability = 3REACTIVITY \bigcirc Reactivity = 0

- · Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

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

· Dangerous Components:					
CAS: 67-63-0 EINECS: 200-661-7	1 1	Xi R36; F R11 R67	75.0%		
CAS: 67-64-1 EINECS: 200-662-2		Xi R36; F R11 R66-67	25.0%		

· 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 Show this product label or this SDS.
- · Most important symptoms and effects, both acute and delayed

Coughing

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.

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· Special hazards arising from the substance or mixture No further relevant information available.

- · 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:

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.

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
- \cdot Requirements to be met by storerooms and receptacles: 15 30 $^{\circ}{\rm C}$
- · 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.

· **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.

- · Control parameters
- · Components with limit values that require monitoring at the workplace:

67-63-0 isopropanol

PEL 980 mg/m³, 400 ppm

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REL Short-term value: 1225 mg/m³, 500 ppm Long-term value: 980 mg/m³, 400 ppm TLV Short-term value: 984 mg/m³, 400 ppm Long-term value: 492 mg/m³, 200 ppm

67-64-1 acetone

PEL | 2400 mg/m³, 1000 ppm REL | 590 mg/m³, 250 ppm

TLV Short-term value: 1782 mg/m³, 750 ppm Long-term value: 1188 mg/m³, 500 ppm

BEI

- · 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.

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 - 180 °F)

· Flash point: -6.7 °C (20 °F)

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· 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: Upper:	3.5 Vol % 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
· Solubility in / Miscibility with Water:	Soluble
Solvent content: Organic solvents: Other information	100.0 % No further relevant information available.

10 Stability and reactivity

- · Reactivity
- · 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: Incompatible materials: strong acids and oxidizers.
- · Hazardous decomposition products: Carbon monoxide (CO) and carbon dioxide (CO2)

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · 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

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· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

67-63-0 isopropanol

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· NTP (National Toxicology Program)

None of the ingredients is listed.

· 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.
- · Ecotoxical 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

Dispose of material in accordance with federal (40 CFR 261.3), state and local requirements. RCRA hazardous waste - RCRA # D001 (unused), F003 (spent). Must not be disposed of with solid waste.

- · Uncleaned packagings:
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

· UN-Number

• **DOT** UN1993 • **ADR, IMDG, IATA** 1993

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(Contd. of page 7) · UN proper shipping name · DOT, IMDG, IATA FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL, ACETONE) 1993 FLAMMABLE LIQUID, N.O.S. · ADR (ISOPROPANOL, ACETONE) · Transport hazard class(es) · DOT · Class 3 Flammable liquids · Label 3 · ADR · Class 3 (F1) Flammable liquids · Label · IMDG, IATA · Class 3 Flammable liquids · Label 3 · Packing group · DOT, ADR, IMDG, IATA II· Environmental hazards: · Marine pollutant: No · Special precautions for user Warning: Flammable liquids · Danger code (Kemler): 33 · EMS Number: F-E,S-E · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. (Contd. on page 9)



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· UN "Model Regulation":

UN1993, Flammable liquids, n.o.s., special provision 640D (Isopropanol (Isopropyl alcohol), Acetone), 3, 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.

· 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

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· Hazard statements

H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

· Precautionary statements

P210	Keep away fi	rom heat/sparks/o/	pen flames/hot s	surfaces No smoking.
1 2 10	I LOOD GWGY II		Juli mannos, not c	sariaces. The sirieming

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

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

P280 Wear protective gloves / eye protection / face protection.

P280 Wear eye protection / face protection.

P240 Ground/bond container and receiving equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P264 Wash thoroughly after handling.

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

P303+P361+P353 IF ON ŠKIN (or hair): Remove/Take off immediately all contaminated

clothing. Rinse skin with water/shower.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

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.

P405 Store locked up.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container in accordance with local/regional/national/

international regulations.

· 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.

- · Contact: Technical Service Representative
- · Date of preparation / last revision 04/09/2015 / -
- · Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

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ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement

concerning the International Carriage of Dangerous Goods by Road)

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

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

NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) Flam. Liq. 2: Flammable liquids, Hazard Category 2

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

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

US