

**BD** 

Last revised date: 06/19/2020

Becton, Dickinson and Company BD, Franklin Lakes, NJ 07417 USA www.bd.com

# SAFETY DATA SHEET

#### 1. Identification

#### **Product identifier**

Product No.:	Product name:	Common name(s), synonym(s)
212527	BOTTLE GRAM DECOLORIZER 250ML	No data available

Other means of identification

SDS number: 088100175759
Recommended use and restriction on use
Recommended use: Laboratory Chemicals

Restrictions on use: None known.

# Manufacturer/Importer/Supplier/Distributor Information

#### Manufacturer

Company Name: BD Diagnostic Systems

Address: 7 Loveton Circle

21152 Sparks, MD USA

Telephone: 1 410 771 0100 or 1 800 638 8663

Fax:

Contact Person: Tech Services

Emergency telephone number: CHEMTREC 1 800 424 9300

# 2. Hazard(s) identification

# **Hazard Classification**

#### **Physical Hazards**

Flammable liquids Category 2
Static-accumulating flammable liquid Category 1

**Health Hazards** 

Serious Eye Damage/Eye Irritation Category 2A
Specific Target Organ Toxicity - Category 3

Single Exposure

#### **Label Elements**

# **Hazard Symbol:**

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Signal Word: Danger

**Hazard Statement:** H225: Highly flammable liquid and vapor.

FK: Static accumulating flammable liquid can become electrostatically

charged even in bonded and grounded equipment.

Spark: Sparks may ignite liquid and vapor. H241: May cause flash fire or explosion. H319: Causes serious eye irritation. H336: May cause drowsiness or dizziness.

**Target Organs:** 

Narcotic effect.

Precautionary Statements

**Prevention:** P210: Keep away from heat, hot surfaces, sparks, open flames and other

ignition sources. No smoking.

P240: Ground and bond container and receiving equipment.

P241: Use explosion-proof [electrical/ventilating/lighting/...] equipment.

P242: Use non-sparking tools.

P243: Take action to prevent static discharges.

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/eye protection/face protection. -: These alone may be insufficient to remove static electricity.

**Response:** P303+P361+P353: IF ON SKIN (or hair): Take off immediately all

contaminated clothing. Rinse skin with water [or shower].

P304+P340: IF INHALED: Remove person to fresh air and keep

comfortable for breathing.

P312: Call a POISON CENTER/doctor if you feel unwell.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing

P337+P313: If eye irritation persists: Get medical advice/attention. P370+P378: In case of fire: Use water spray, fog, CO2, dry chemical, or

alcohol resistant foam.

**Storage:** P403: Store in a well-ventilated place.

P235: Keep cool.

P233: Keep container tightly closed.

P405: Store locked up.

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**Disposal:** P501: Dispose of contents/container to an appropriate treatment and

disposal facility in accordance with applicable laws and regulations, and

product characteristics at time of disposal.

Other hazards which do not result in GHS

classification

None.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
2-Propanol	No data available.	67-63-0	60 - 80%
2-Propanone	No data available.	67-64-1	10 - 30%

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### 4. First-aid measures

General information: Get immediate medical advice/attention. Causes serious eye irritation. May

cause drowsiness or dizziness.

**Ingestion:** If swallowed, rinse mouth with water (only if the person is conscious). Call a

physician or poison control center immediately.

**Inhalation:** Get medical attention immediately. Provide fresh air, warmth and rest,

preferably in comfortable upright sitting position.

**Skin Contact:** Flush contaminated area with plenty of water. Get medical attention

immediately.

**Eye contact:** If in eyes, hold eyes open, flood with water for at least 15 minutes and see

a doctor.

Most important symptoms/effects, acute and delayed

**Symptoms:** Symptoms may be delayed.

**Hazards:** Causes serious eye irritation. May cause drowsiness or dizziness.

Indication of immediate medical attention and special treatment needed

**Treatment:** Get immediate medical advice/attention.

#### 5. Fire-fighting measures

General Fire Hazards: Extinguish all ignition sources. Avoid sparks, flames, heat and smoking.

Ventilate. Use water to keep fire exposed containers cool and disperse

vapors.

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# Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Water spray, fog, CO2, dry chemical, or alcohol resistant foam.

Unsuitable extinguishing

media:

Avoid water in straight hose stream; will scatter and spread fire.

Specific hazards arising from

the chemical:

Vapors are flammable and heavier than air. Vapors may travel across the ground and reach remote ignition sources causing a flashback fire danger. Exposure to fire can generate toxic fumes. Fire or excessive heat may produce hazardous decomposition products.

#### Special protective equipment and precautions for firefighters

Special fire fighting procedures:

Flammable. May form explosive or toxic mixtures with air.

Special protective equipment

for fire-fighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area. Contact local authorities in case of spillage to drain/aquatic environment.

Methods and material for containment and cleaning

Stop leak if possible without any risk. Prevent entry into waterways, sewer, basements or confined areas. Sweep up and place in a clearly labeled container for chemical waste. See Section 8 of the SDS for Personal Protective Equipment. For waste disposal, see section 13 of the SDS.

**Environmental Precautions:** 

Do not release into the environment. Environmental manager must be informed of all major spillages.

# 7. Handling and storage

Precautions for safe handling:

Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, on clothing. Do not eat, drink or smoke when using the product. Read and follow manufacturer's recommendations. Wash promptly with soap and water if skin becomes contaminated. Use personal protective equipment as required.

Conditions for safe storage, including any incompatibilities:

Store in tightly closed original container in a dry, cool and well-ventilated place.

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# 8. Exposure controls/personal protection

# **Control Parameters**

Occupational Exposure Limits

Occupational Exposure Limits				
Chemical Identity	Туре	Exposure Limit	Values	Source
2-Propanol	TWA	200 ppm	492 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)
	STEL	400 ppm	984 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)
2-Propanol	STEL	400 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	200 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
2-Propanol	STEL	400 ppm		Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended (03 2011)
	TWA	200 ppm		Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended (03 2011)
2-Propanol	STEL	400 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
	TWA	200 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
2-Propanol	15 MIN ACL	400 ppm		Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)
	8 HR ACL	200 ppm		Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)
2-Propanol	STEL	500 ppm	1,230 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017)
	TWA	400 ppm	983 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017)

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2-Propanol	TWA	200 ppm		US. ACGIH Threshold Limit Values,
				as amended (12 2010)
	STEL	400 ppm		US. ACGIH Threshold Limit Values, as amended (12 2010)
2-Propanone	TWA	500 ppm	1,200 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)
	STEL	750 ppm	1,800 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)
2-Propanone	TWA	250 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	STEL	500 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
2-Propanone	STEL	500 ppm		Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended (03 2015)
	TWA	250 ppm		Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended (03 2015)
2-Propanone	15 MIN ACL	750 ppm		Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)
	8 HR ACL	500 ppm		Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)
2-Propanone	STEL	1,000 ppm	2,380 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017)
	TWA	500 ppm	1,190 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017)
2-Propanone	TWA	250 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (08 2017)
	STEL	500 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (08 2017)

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2-Propanone	TWA	250 ppm	US. ACGIH Threshold Limit Values,
			as amended (03 2015)
	STEL	500 ppm	US. ACGIH Threshold Limit Values,
			as amended (03 2015)

Appropriate Engineering

Controls

Adequate ventilation should be provided so that exposure limits are not

exceeded.

Individual protection measures, such as personal protective equipment

**General information:** Always observe good personal hygiene measures, such as washing after

handling the material and before eating, drinking, and/or smoking. Routinely

wash work clothing to remove contaminants. Discard contaminated

footwear that cannot be cleaned.

**Eye/face protection:** Wear safety glasses with side shields (or goggles).

**Skin Protection** 

**Hand Protection:** Use suitable protective gloves if risk of skin contact.

**Skin protection:** Wear appropriate clothing to prevent reasonably probable skin contact.

**Respiratory Protection:** If engineering controls do not maintain airborne concentrations below

recommended exposure limits (where applicable) or to an acceptable level

(in countries where exposure limits have not been established), an

approved respirator must be worn.

**Hygiene measures:** Do not eat, drink or smoke when using the product. Do not get this material

in contact with skin. Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet. Do not handle until all safety precautions have been read and understood.

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

# 9. Physical and chemical properties

**Appearance** 

Physical state: liquid Form: liquid

**Color:** According to product specification.

Odor: Characteristic
Odor threshold: No data available.
pH: No data available.
Melting point/freezing point: No data available.
Initial boiling point and boiling range: 56.1 - 82.0 °C

Flash Point: -6.7 °C

Evaporation rate: No data available. Flammability (solid, gas): No data available.

Upper/lower limit on flammability or explosive limits

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Flammability limit - upper (%): 18.0 %(V)
Flammability limit - lower (%): 3.5 %(V)

**Explosive limit - upper:**No data available. **Explosive limit - lower:**No data available.

Vapor pressure: 186.0 hPa

Vapor density:No data available.Relative density:No data available.

Solubility(ies)

Solubility in water:
Solubility (other):

Partition coefficient (n-octanol/water):

Auto-ignition temperature:

Decomposition temperature:

Viscosity:

Completely Soluble
No data available.

Other information

Minimum ignition temperature: 425.0 °C

# 10. Stability and reactivity

**Reactivity:** Stable under normal temperature conditions and recommended use.

Chemical Stability: No data available.

Possibility of hazardous

reactions:

Do not subject to grinding/shock/friction/. Contact with acids and metals can

lead to violent decomposition.

Conditions to avoid: Heat, sparks, flames. Shocks and physical damage. Avoid conditions which

create dust.

**Incompatible Materials:** Strong acids. Strong oxidizing agents. Peroxides. Other metals or alloys.

**Hazardous Decomposition** 

**Products:** 

By fire, toxic gases may be formed (COx, NOx).

# 11. Toxicological information

**General information:** This material is toxic.

Information on likely routes of exposure

**Ingestion:** May irritate and cause malaise.

**Inhalation:** Toxic by inhalation.

**Skin Contact:** Toxic in contact with skin.

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**Eye contact:** May irritate eyes.

Symptoms related to the physical, chemical and toxicological characteristics

**Ingestion:** No data available.

**Inhalation:** No data available.

**Skin Contact:** No data available.

**Eye contact:** No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

**Product:** ATEmix: 12,000 mg/kg

**Dermal** 

**Product:** No data available.

Inhalation

**Product:** No data available.

Repeated dose toxicity

**Product:** No data available.

Specified substance(s):

2-Propanol NOAEL (Rat, Inhalation, >= 104 Weeks): 5,000 ppm(m) Inhalation

Experimental result, Key study

2-Propanone NOAEL (Mouse(Male), Oral, 13 Weeks): 20,000 ppm(m) Oral Experimental

result, Key study

NOAEL (Mouse(female), Oral, 13 Weeks): 20,000 ppm(m) Oral

Experimental result, Key study

LOAEL (Rat(Female, Male), Oral, 30 - 90 d): 500 mg/kg Oral Not specified,

Not specified

LOAEL (Rat(Male), Oral, 13 Weeks): 20,000 ppm(m) Oral Experimental

result, Key study

LOAEL (Mouse(Male), Oral, 14 d): 20,000 ppm(m) Oral Experimental result,

Supporting study

Skin Corrosion/Irritation

**Product:** No data available.

Specified substance(s):

2-Propanol in vivo (Rabbit): Not Classified Experimental result, Key study

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2-Propanone in vivo (Guinea pig): Not irritant Experimental result, Weight of Evidence

study

in vivo (Guinea pig): Not irritant Experimental result, Weight of Evidence

study

in vivo (Rabbit): Not irritant Experimental result, Supporting study

Serious Eye Damage/Eye Irritation

**Product:** No data available.

Specified substance(s):

2-Propanol in vivo (Rabbit, 1 d): Category 2: Causes serious eye irritation CLP

(1272/2008)

2-Propanone Irritating Exposure for 15 minutes to 1660 ppm causes irritation of eyes

Respiratory or Skin Sensitization

**Product:** No data available.

Specified substance(s):

2-Propanol Skin sensitization:, in vivo (Guinea pig): Non sensitising

2-Propanone Skin sensitization:, in vivo (Guinea pig): Non sensitising

Skin sensitization:, in vivo (Mouse): Non sensitising

Carcinogenicity

**Product:** No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

**US. National Toxicology Program (NTP) Report on Carcinogens:** 

No carcinogenic components identified

**ACGIH Carcinogens:** 

No carcinogenic components identified

**Germ Cell Mutagenicity** 

In vitro

**Product:** No data available.

In vivo

**Product:** No data available.

Reproductive toxicity

**Product:** No data available.

**Specific Target Organ Toxicity - Single Exposure** 

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**Product:** No data available.

**Specific Target Organ Toxicity - Repeated Exposure** 

**Product:** No data available.

**Aspiration Hazard** 

**Product:** No data available.

Other effects: No data available.

# 12. Ecological information

#### **Ecotoxicity:**

#### Acute hazards to the aquatic environment:

**Fish** 

**Product:** No negative effects on the aquatic environment are known.

**Aquatic Invertebrates** 

**Product:** No negative effects on the aquatic environment are known.

# Chronic hazards to the aquatic environment:

Fish

**Product:** No negative effects on the aquatic environment are known.

**Aquatic Invertebrates** 

**Product:** No negative effects on the aquatic environment are known.

**Toxicity to Aquatic Plants** 

**Product:** No data available.

# Persistence and Degradability

Biodegradation

**Product:** No data available.

Specified substance(s):

2-Propanol 53 % (5 d) Detected in water. Experimental result, Key study

2-Propanone 56 % Detected in water. Experimental result, Supporting study

90.9 % (28 d) Detected in water. Experimental result, Key study 76 % Detected in water. Experimental result, Supporting study 38 % Detected in water. Experimental result, Supporting study

74.3 - 95.4 % (26 d) Detected in water. Experimental result, Supporting

study

#### **BOD/COD Ratio**

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**Product:** No data available.

**Bioaccumulative potential** 

**Bioconcentration Factor (BCF)** 

**Product:** No data available.

Specified substance(s):

2-Propanone Bioconcentration Factor (BCF): 3 Aquatic sediment Estimated by calculation,

Supporting study

Haddock, adult, Bioconcentration Factor (BCF): 0.69 Aquatic sediment

Experimental result, Not specified

Partition Coefficient n-octanol / water (log Kow)

**Product:** Log Kow: No data available.

**Mobility in soil:** No data available.

Known or predicted distribution to environmental compartments

2-Propanol2-PropanoneNo data available.No data available.

Other adverse effects: No data available.

13. Disposal considerations

**General information:** This material and its container must be disposed of as hazardous waste.

**Disposal instructions:** Dispose of waste at a facility with special permission to dispose industrial

wastes subject to special control. Waste should be accompanied by a

manifest for the industrial wastes.

Contaminated Packaging: No data available.

14. Transport information

DOT

Special precautions for user: Not regulated.

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**IMDG** 

**UN Number:** UN 3316 **UN Proper Shipping Name:** CHEMICAL KIT

Transport Hazard Class(es)

9 Class: Subsidiary risk: 9

EmS No.: F-A, S-P

Packing Group: Ш

**Environmental Hazards** 

Marine Pollutant: Not regulated.

Special precautions for user: Not regulated.

**TDG** 

**UN Number** UN3316

**Proper Shipping Name** CHEMICAL KIT

Class 9 Packing Group Ш Label(s) 9

Subsidiary risk label

Special precautions for user: Not regulated.

IATA

**UN Number:** UN 3316 Proper Shipping Name: Chemical kit

Transport Hazard Class(es):

9 Class: 9MI Subsidiary risk: Packing Group:

**Environmental Hazards** 

Marine pollutant: Not regulated.

Special precautions for user: Not regulated.

## 15. Regulatory information

Canada Federal Regulations

List of Toxic Substances (CEPA, Schedule 1)

Not Regulated

Export Control List (CEPA 1999, Schedule 3)

Not Regulated

**National Pollutant Release Inventory (NPRI)** 

Canada. National Pollutant Release Inventory (NPRI) Substances, Part 5, VOCs with Additional **Reporting Requirements** 

NPRI PT5 2-Propanol

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Canada. National Pollutant Release Inventory (NPRI) (Schedule 1, Parts 1-4)

NPRI 2-Propanol

2-Propanone

#### **Greenhouse Gases**

Not Regulated

## **Controlled Drugs and Substances Act**

CA CDSI Not Regulated

CA CDSII Not Regulated

CA CDSIII Not Regulated

CA CDSIV Not Regulated

CA CDSV Not Regulated

CA CDSVII Not Regulated

CA CDSVIII Not Regulated

# **Precursor Control Regulations**

#### **Chemical Identity**

2-Propanone

## International regulations

#### Montreal protocol

Not applicable

# Stockholm convention

Not applicable

#### **Rotterdam convention**

Not applicable

#### **Kyoto protocol**

Not applicable

# 16.Other information, including date of preparation or last revision

**Issue Date:** 06/19/2020

Version #: 1.1

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**Revision Information:** 

**Further Information:** No data available.

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