



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

SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

1. Identification

Product identifier

Product No.:	Product name:	Common name(s), synonym(s)
212528	BD BBL™ Gram Decolorizer	No data available

Recommended restrictions

Recommended use: Scientific and industrial laboratory use. For In Vitro Diagnostic Use.
Restrictions on use: None known.

Manufacturer/Importer/Distributor Information

Manufacturer

Company Name: BD, Integrated Diagnostic Solutions
Address: 7 Loveton Circle
Sparks, MD 21152
USA

Telephone: 1 844 823 5433
Fax: not available
Contact Person: Tech Services

Emergency telephone number: CHEMTREC 1 800 424 9300

2. Hazard(s) identification

Hazard Classification

Physical Hazards

Flammable liquids Category 2

Health Hazards

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

Label Elements

Hazard Symbol:

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



Signal Word: Danger

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

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 equipment.
P242: Use non-sparking tools.
P243: Take action to prevent static discharges.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P264: Wash thoroughly after handling.
P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
P271: Use only outdoors or in a well-ventilated area.

Response: 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.
P337+P313: If eye irritation persists: Get medical advice/attention.
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P312: Call a POISON CENTER/doctor if you feel unwell.
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.

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.



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

Other hazards which do not result in GHS classification:

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.

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	75%
2-Propanone	No data available.	67-64-1	25%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Description of necessary first-aid measures

- General information:** Get medical attention if symptoms occur. Causes serious eye irritation. May cause drowsiness or dizziness.
- Inhalation:** Provide fresh air, warmth and rest, preferably in comfortable upright sitting position. Get medical attention if any discomfort continues.
- Skin Contact:** Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse.
- Eye contact:** Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
- Ingestion:** If swallowed, rinse mouth with water (only if the person is conscious). DO NOT induce vomiting. Get medical attention immediately.
- Personal Protection for First-aid Responders:** No data available.

Most important symptoms and effects, both acute and delayed



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

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 medical attention if symptoms occur.
-------------------	--

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. In case of fire: Evacuate area.
------------------------------	---

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:	Use fire-extinguishing media appropriate for surrounding materials.
--------------------------------------	---

Unsuitable extinguishing media:	Not applicable
--	----------------

Special hazards arising from the substance or mixture:	Fire or excessive heat may produce hazardous decomposition products.
---	--

Special protective equipment and precautions for firefighters

Special fire fighting procedures:	May explode when heated or when exposed to flames or sparks.
--	--

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:	Contact local authorities in case of spillage to drain/aquatic environment. Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area.
---	--

Accidental release measures: Methods and material for containment and cleaning up:	No data available. All equipment used when handling the product must be grounded. Eliminate sources of ignition. Prevent spreading of vapors through sewers, ventilation systems and confined areas. Absorb spillage with suitable absorbent material. Prevent runoff from entering drains, sewers, or streams. See Section 8 of the SDS for Personal Protective Equipment. For waste disposal, see section 13 of the SDS.
---	---

Environmental Precautions:	Avoid release to the environment.
-----------------------------------	-----------------------------------



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

7. Handling and storage

Handling

Technical measures (e.g. Local and general ventilation): Use explosion-proof ventilation equipment to stay below exposure limits. Adequate ventilation should be provided so that exposure limits are not exceeded.

Safe handling advice: When using do not eat, drink or smoke. Use personal protective equipment as required. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes. Read and follow manufacturer's recommendations. Use spark-proof tools and explosion-proof equipment.

Contact avoidance measures: No data available.

Storage

Safe storage conditions: Store in a cool, dry place. Keep container tightly closed. Keep from contact with oxidizing materials.

Safe packaging materials: No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
2-Propanol	TWA	400 ppm 980 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	STEL	500 ppm 1,225 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	TWA	400 ppm 980 mg/m ³	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A
	STEL	500 ppm 1,225 mg/m ³	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A
	AN ESL	200 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	ST ESL	2,000 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	AN ESL	492 µg/m ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	ST ESL	4,920	US. Texas. Effects Screening Levels (Texas



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

			µg/m3	Commission on Environmental Quality), as amended
	TWA PEL	400 ppm	980 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants
	STEL	500 ppm	1,225 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants
	TWA	200 ppm		US. ACGIH Threshold Limit Values, as amended
	STEL	400 ppm		US. ACGIH Threshold Limit Values, as amended
	STEL	500 ppm	1,225 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	REL	400 ppm	980 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	IDLH	2,000 ppm		US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended
	LEL		2.0 %	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended
	PEL	400 ppm	980 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
2-Propanone	STEL	500 ppm		US. ACGIH Notice of Intended Changes (NIC) to Threshold Limit Values, as amended
	TWA	200 ppm		US. ACGIH Notice of Intended Changes (NIC) to Threshold Limit Values, as amended
	TWA	750 ppm	1,800 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	STEL	1,000 ppm	2,400 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	STEL	1,000 ppm	2,400 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended
	TWA	750 ppm	1,800 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended
	ST ESL		2,500 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	AN ESL		250 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	ST ESL		5,900 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	AN ESL		590 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	TWA PEL	500 ppm	1,200 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended
	STEL	750 ppm	1,780 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended
	Ceiling	3,000 ppm		US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended
	TWA	250 ppm		US. ACGIH Threshold Limit Values, as



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

			amended
	STEL	500 ppm	US. ACGIH Threshold Limit Values, as amended
	REL	250 ppm 590 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	PEL	1,000 ppm 2,400 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	LEL		2.5 % US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended
	IDLH	2,500 ppm	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended

Please refer to the latest edition of the appropriate source text and consult an industrial hygienist or similar professional, or local agencies, for further information.

Biological Limit Values

Chemical name	Parameters / Sampling Time	Exposure Limit Values	Source
---------------	----------------------------	-----------------------	--------

Appropriate Engineering Controls

Use explosion-proof ventilation equipment to stay below exposure limits. Adequate ventilation should be provided so that exposure limits are not exceeded.

Individual protection measures, such as personal protective equipment

Eye/face protection:

Wear safety glasses with side shields (or goggles).

Skin Protection

Hand Protection:

Material: Chemical resistant gloves
Additional Information: Wash hands after contact. Material: Suitable gloves can be recommended by the glove supplier.

Skin and Body Protection:

Wear a lab coat or similar protective clothing.

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:

Observe good industrial hygiene practices.



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

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Physical state:	liquid
Form:	liquid
Color:	According to product specification.
Odor:	Characteristic
Odor Threshold:	No data available.
Freezing point:	No data available.
Boiling Point:	133.0 - 180 °F/56.1 - 82 °C

Flammability: No data available.

Upper/lower limit on flammability or explosive limits

Explosive limit - upper:	No data available.
Explosive limit - lower:	No data available.
Flash Point:	19.9 °F/-6.7 °C
Self Ignition Temperature:	No data available.
Decomposition Temperature:	No data available.
pH:	No data available.

Viscosity

Dynamic viscosity:	Not determined.
Kinematic viscosity:	Not determined.
Flow Time:	No data available.

Solubility(ies)

Solubility in Water:	Completely Soluble
Solubility (other):	Water.: No data available.
Partition coefficient (n-octanol/water):	No data available.
Vapor pressure:	No data available.
Relative density:	No data available.
Density:	No data available.
Bulk density:	No data available.
Relative vapor density:	No data available.

Particle characteristics

Particle Size:	No data available.
Particle Size Distribution:	No data available.
Specific surface area:	No data available.



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

Surface charge/Zeta potential:	No data available.
Shape:	No data available.
Crystallinity:	No data available.
Surface treatment:	No data available.

Other information

Metal Corrosion:	Non-corrosive per US Department of Transportation testing protocol.
-------------------------	---

10. Stability and reactivity

Reactivity:	Material is stable under normal conditions.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	Material is stable under normal conditions.
Conditions to avoid:	Avoid exposure to high temperatures or direct sunlight. Flammable/combustible - Keep away from oxidizers, heat and flames. Keep away from sources of ignition - No smoking.
Incompatible Materials:	Water reactive material.
Hazardous Decomposition Products:	Stable; however, may decompose if heated.

11. Toxicological information

Information on toxicological effects

Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Ingestion:	No data available.

Information on likely routes of exposure

Acute toxicity (list all possible routes of exposure)

Oral Product:	ATEmix: 12,000 mg/kg
----------------------	----------------------



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

Components:

2-Propanol LD 50 (Rat): 5,045 mg/kg

2-Propanone LD 50 (Mouse): 5.2 g/kg
LD 50 (Rat): 5,800 mg/kg
LD 50 (Rabbit): 5,340 mg/kg
LD 50 (Mouse): 3,000 mg/kg
LD 50 (Rat): 9,800 mg/kg
LD 50 (Mouse): 5,230 mg/kg
Experimental result, Not specified LD 50 (Rat): 8,450 mg/kg
Experimental result, Not specified LD Lo (Dog): 8,000 mg/kg
Not specified, Not specified LD 50 (Rat): 9,800 mg/kg
Other, Not specified LD Lo (Human): 1,159 mg/kg
Not specified, Not specified LD 50 (Rabbit): 5,340 mg/kg
Not specified, Not specified LD 50 (Mouse): 3,000 mg/kg
Not specified, Not specified LD 50 (Rat): 9,750 mg/kg
Not specified, Not specified LD 50 (Rat): 5,800 mg/kg
Experimental result, Key study

Dermal

Product: Not classified for acute toxicity based on available data.

Components:

2-Propanol LD 50 (Rabbit): 12,800 mg/kg

2-Propanone LD 50 (Rabbit): 20,000 mg/kg
LD 50 (Rabbit): > 7,426 mg/kg
Experimental result, Weight of Evidence study LD 50 (Rabbit): > 15,800 mg/kg
Experimental result, Weight of Evidence study LD 50 (Rabbit): 20,000 mg/kg
Not specified, Not specified LD 50 (Guinea pig): > 7,426 mg/kg
Experimental result, Weight of Evidence study

Inhalation

Product: Not classified for acute toxicity based on available data.

Components:

2-Propanol LC 50 (Rat, 6 h): > 10000 ppm Vapor; 1 = reliable without restrictions;
Experimental result, Key study, Vapor

2-Propanone LOAEL (Human, 6 h): 0.01 mg/l 4 = not assignable; Not specified, Not specified LC Lo (Rat, 4 h): 16000 ppm 3 = not reliable; Experimental result, Not specified LC (Rat): 42000 ppm 3 = not reliable; Not specified, Not specified LOAEL (Human): 500 ppm 3 = not reliable; Not specified, Not specified LC 50 (Rat, 3 h): 55700 ppm Vapor; 2 = reliable with restrictions; Experimental result, Weight of Evidence study, Vapor
LOAEL (Human, 4 h): 12000 ppm 4 = not assignable; Not specified, Not specified LC (Cat, 3 h): 21300 ppm 3 = not reliable; Not specified, Not specified LC Lo (Mouse, 1 h): 110 mg/l 3 = not reliable; Not specified, Not specified LC (Rat, 2 h): 126000 ppm 3 = not reliable; Not specified, Not specified LC 50 (Rat, 4 h): 50.1 mg/l Vapor; 2 = reliable with restrictions; Experimental result, Weight of Evidence study, Vapor
LC (Mouse, 1 h): 46000 ppm 3 = not reliable; Not specified, Not specified



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

LC (Guinea pig): 40000 ppm 3 = not reliable; Experimental result, Not specified LC 50 (Rat, 4 h): 76 mg/l Vapor; 2 = reliable with restrictions; Experimental result, Weight of Evidence study, Vapor

Repeated dose toxicity

Product:

No data available.

Components:

2-Propanol

NOAEL (Rat, Inhalation, >= 104 Weeks): 5,000 ppm(m) Experimental result, Key study Inhalation

2-Propanone

NOAEL (Rat(Male), Inhalation, 2 - 8 Weeks): 19,000 ppm(m)

Experimental result, Weight of Evidence study Inhalation

NOAEL (Mouse(Male), Oral, 14 d): 10,000 ppm(m) Experimental result, Supporting study Oral

LOAEL (Mouse(female), Oral, 14 d): 50,000 ppm(m) Experimental result, Supporting study Oral

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

NOAEL (Mouse(female), Oral, 13 Weeks): 20,000 ppm(m) Experimental result, Key study Oral

Skin Corrosion/Irritation

Product:

No data available.

Components:

2-Propanol

in vivo (Guinea pig): Not Classified , 4 - 48 h

in vivo (Rabbit): Not Classified , 4 - 48 h

2-Propanone

No data available.

Serious Eye Damage/Eye Irritation

Product:

No data available.

Components:

2-Propanol

Category 2: Causes serious eye irritation in vivo Rabbit, 1 d: 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.

Components:

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.

Components:

2-Propanol

No data available.

2-Propanone

No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogens present or none present in regulated quantities



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

US. National Toxicology Program (NTP) Report on Carcinogens:
No carcinogens present or none present in regulated quantities

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:
No carcinogens present or none present in regulated quantities

Germ Cell Mutagenicity

In vitro

Product: No data available.
Components:
2-Propanol No data available.
2-Propanone No data available.

In vivo

Product: No data available.
Components:
2-Propanol No data available.
2-Propanone No data available.

Reproductive toxicity

Product: No data available.
Components:
2-Propanol No data available.
2-Propanone No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.
Components:
2-Propanol No data available.
2-Propanone No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.
Components:
2-Propanol No data available.
2-Propanone No data available.

Aspiration Hazard

Product: No data available.
Components:
2-Propanol No data available.
2-Propanone No data available.

Information on health hazards

Other hazards

Product: No data available.



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

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.
Components:
2-Propanol LC 50 (Pimephales promelas, 96 h): 8,680 mg/l
LC 50 (Fathead minnow (Pimephales promelas), 24 h): 11,160 mg/l Mortality
LC 50 (Fathead minnow (Pimephales promelas), 96 h): 9,230 - 10,000 mg/l Mortality
LC 50 (Bluegill (Lepomis macrochirus), 24 h): > 1,400 mg/l Mortality
LC 50 (Fathead minnow (Pimephales promelas), 24 h): 10,600 mg/l Mortality
2-Propanone LC 50 (Pimephales promelas, 96 h): 7,160 mg/l
NOAEL (Pimephales promelas, 48 h): 12,000 mg/l Experimental result, Supporting study
LC 50 (Fathead minnow (Pimephales promelas), 168 h): 6,705 - 7,650 mg/l Mortality
LC 50 (Carp (Leuciscus idus melanotus), 48 h): 11,300 mg/l Mortality
LC 50 (Oryzias latipes, 48 h): 14,300 mg/l Experimental result, Supporting study

Aquatic Invertebrates

Product: No data available.
Components:
2-Propanol EC 50 (Daphnia magna, 24 h): 9,714 mg/l Experimental result, Supporting study
EC 100 (Daphnia magna, 24 h): > 10,000 mg/l Experimental result, Supporting study
LC 50 (Water flea (Daphnia magna), 24 h): > 10,000 mg/l Mortality
LC 50 (Brine shrimp (Artemia salina), 24 h): > 10,000 mg/l Mortality
LC 50 (Common shrimp, sand shrimp (Crangon crangon), 96 h): 750 - 1,650 mg/l Mortality
2-Propanone LC 50 (Oligochaete, worm (Lumbriculus variegatus), 96 h): > 100 mg/l Mortality
ED 0 (Daphnia magna, 24 h): 5,000 mg/l Experimental result, Supporting study
LC 50 (Water flea (Daphnia magna), 96 h): > 100 mg/l Mortality
LC 50 (Daphnia pulex, 48 h): 8,800 mg/l Experimental result, Key study
LC 50 (Artemia salina, 24 h): 2,100 mg/l Experimental result, Key study

Toxicity to Aquatic Plants

Product: No data available.
Components:
2-Propanol No data available.
2-Propanone No data available.



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

Toxicity to microorganisms

Product: No data available.
Components:
2-Propanol No data available.
2-Propanone LC 50 (Diatom (*Nitzschia linearis*), 5 d): 11.493 - 11.727 mg/l Mortality
LC 50 (Turbellarian, flatworm (*Dugesia tigrina*), 96 h): > 100 mg/l Mortality

Chronic hazards to the aquatic environment:

Fish

Product: No data available.
Components:
2-Propanol No data available.
2-Propanone No data available.

Aquatic Invertebrates

Product: No data available.
Components:
2-Propanol No data available.
2-Propanone LOAEL (*Daphnia magna*, 28 d): 2,212 mg/l (flow-through) Experimental result, Key study
LC 50 (*Daphnia magna*, 48 h): 9,218 mg/l (semi-static) Experimental result, Not specified
NOAEL (*Ceriodaphnia dubia*, 10 d): 5,184 mg/l (semi-static) Experimental result, Supporting study
NOAEL (*Daphnia magna*, 28 d): > 1,106 - < 2,212 mg/l (flow-through) Experimental result, Key study
NOAEL (*Daphnia magna*, 21 d): \geq 79 mg/l (semi-static) Experimental result, Supporting study

Toxicity to Aquatic Plants

Product: No data available.
Components:
2-Propanol No data available.
2-Propanone No data available.

Toxicity to microorganisms

Product: No data available.
Components:
2-Propanol No data available.
2-Propanone LC 50 (Diatom (*Nitzschia linearis*), 5 d): 11.493 - 11.727 mg/l Mortality
LC 50 (Turbellarian, flatworm (*Dugesia tigrina*), 96 h): > 100 mg/l Mortality

Persistence and Degradability

Biodegradation

Product: No data available.
Components:
2-Propanol 53 % (5 d) Experimental result, Key study Detected in water.



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

2-Propanone	76 % Experimental result, Supporting study Detected in water. 76 % Experimental result, Supporting study Detected in water. 75 % (4 h) Experimental result, Not specified Detected in water. 100 % (4 d) Experimental result, Key study Detected in water. 25.5 - 36.7 % (281 d) Experimental result, Key study Soil
-------------	--

BOD/COD Ratio

Product:	No data available.
Components:	
2-Propanol	No data available.
2-Propanone	No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product:	No data available.
Components:	
2-Propanol	No data available.
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:	No data available.
Components:	
2-Propanol	No data available.
2-Propanone	Log Kow: -0.24

Mobility in soil:

Product	No data available.
Components:	
2-Propanol	No data available.
2-Propanone	No data available.

Results of PBT and vPvB assessment:

Product	No data available.
Components:	
2-Propanol	No data available.
2-Propanone	No data available.

Other adverse effects:

Other hazards	
Product:	No data available.

13. Disposal considerations



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

- General information:** Dispose of waste and residues in accordance with local authority requirements. This product is highly flammable. Don't use fire to cut empty container after use.
- Disposal methods:** Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
- Contaminated Packaging:** 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.

14. Transport information

DOT

- UN number or ID number: UN 1993
UN Proper Shipping Name: Flammable liquids, n.o.s.(isopropanol, acetone)
Transport Hazard Class(es)
Class: 3
Label(s): 3
Packing Group: II
Marine Pollutant: No
- Special precautions for user: Not regulated.

IMDG

- UN number or ID number: UN 1993
UN Proper Shipping Name: FLAMMABLE LIQUID, N.O.S.(isopropanol, acetone)
Transport Hazard Class(es)
Class: 3
Subsidiary risk: 3
EmS No.: F-E, S-E
Packing Group: II
Environmental Hazards
Marine Pollutant: No
- Special precautions for user: Not regulated.



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

IATA

UN number or ID number:	UN 1993
Proper Shipping Name:	Flammable liquid, n.o.s.(isopropanol, acetone)
Transport Hazard Class(es):	
Class:	3
Subsidiary risk:	3
Packing Group:	II
Environmental Hazards	
Marine pollutant:	No
Special precautions for user:	Not regulated.

15. Regulatory information**US Federal Regulations**

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
None present or none present in regulated quantities.

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)
None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended
None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity

2-Propanol
2-Propanone

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Flammable (gases, aerosols, liquids, or solids), Serious eye damage or eye irritation, Specific target organ toxicity (single or repeated exposure), Hazards Not Otherwise Classified (HNOC)

US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

None present or none present in regulated quantities.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required



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

<u>Chemical Identity</u>	<u>% by weight</u>
2-Propanol	1.0%

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):
None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)
None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65
No ingredient requiring a warning under CA Prop 65.

US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity
2-Propanol
2-Propanone

US. Massachusetts RTK - Substance List

Chemical Identity
2-Propanol
2-Propanone

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity
2-Propanol
2-Propanone

US. Rhode Island RTK

Chemical Identity
2-Propanol
2-Propanone

International regulations

Montreal protocol
Not applicable

Stockholm convention
Not applicable

Rotterdam convention
Not applicable

Kyoto protocol
Not applicable



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

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

Issue Date: 12/20/2021

Version #: 2.2

Further Information: No data available.

Disclaimer: Disclaimer:
The information contained herein has been obtained from various sources and is believed to be correct as of the date issued. However, neither BD nor any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability for a particular use 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. BD provides SDS in electronic form so the information may be more easily accessed. Due to the possibility of errors during transmission, BD makes no representations as to the completeness or accuracy of the information.