

BD

Last revised date: 03/02/2018

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)
260825	BD™ ChloraPrep™ with Tint, 26 mL	

Other means of identification

SDS number: 088100243283

Recommended use and restriction on use

Recommended use: Skin Antiseptic

Restrictions on use: For External Use Only

Manufacturer/Importer/Supplier/Distributor Information

Manufacturer

Company Name: Becton Dickinson
Address: 1550 Northwestern Dr

El Paso, TX 79912USA

Telephone: Fax:

800-523-0502 (Monday to Friday 8 a.m. to 5 p.m. CT)

Contact Person: Customer Service

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 2 Specific Target Organ Toxicity - Category 3

Single Exposure

Environmental Hazards

Acute hazards to the aquatic Category 2

environment

Chronic hazards to the aquatic Category 3

environment

Label Elements

Hazard Symbol:

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Signal Word: Danger

Hazard Statement: H225: Highly flammable liquid and vapour.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

H401: Toxic to aquatic life.

H412: Harmful to aquatic life with long lasting effects.

Precautionary Statements

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

> ignition sources. No smoking. P233: Keep container tightly closed. P242: Use non-sparking tools.

P273: Avoid release to the environment.

P370+P378: In case of fire: Use water for extinction. Response:

> 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.

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

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: -: May cause permanent damage if permitted to enter and remain in the

ears or eyes for a long period of time

3. Composition/information on ingredients

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Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
2-Propanol		67-63-0	62.3%
D-Gluconic acid, compd. with N1,N14-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediimidamid e (2:1)		18472-51-0	2.3%

^{*} 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 medical attention if symptoms occur.

Ingestion: Drink plenty of water. Get medical attention immediately.

Inhalation: Move to fresh air. Get medical attention if any discomfort continues.

Skin Contact: Wash skin thoroughly with soap and water.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do,

remove contact lenses. Get medical attention if symptoms persist.

Most important symptoms/effects, acute and delayed

Symptoms: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: No data available.

5. Fire-fighting measures

General Fire Hazards: No unusual fire or explosion hazards noted.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Use: Water. Water fog. Dry chemical. Alcohol foam.

Unsuitable extinguishing

media:

not applicable

Specific hazards arising from

the chemical:

No data available.

Special protective equipment and precautions for firefighters

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Special fire fighting procedures:

No unusual fire or explosion hazards noted.

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: See Section 8 of the SDS for Personal Protective Equipment.

Methods and material for containment and cleaning up:

Small quantities may be flushed to drains with plenty of water. Large Spillages: Absorb spillage with non-combustible, absorbent material. Collect spillage in containers, seal securely and deliver for disposal

according to local regulations.

Notification Procedures: Considering the size of the packaging, the risk is regarded as minimal.

Environmental Precautions: Avoid release to the environment.

7. Handling and storage

Precautions for safe handling: Do not eat, drink or smoke when using the product. Avoid ingestion. Avoid

contact with eyes, ears, mouth For External Use Only

Conditions for safe storage, including any incompatibilities:

Avoid contact with oxidizing agents. Store in a cool, dry place. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of flammable liquids. Store at room temperature (68 degrees F to 77 degrees F). Avoid excessive heat (104 degrees F). Store isolated from oxidizers, ignition sources, and explosives. Consult local fire codes for additional storage information. Keep out of reach of children.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

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Chemical Identity	Туре	Exposure Limit	Values	Source
2-Propanol	TWA	400 ppm	980 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL	500 ppm 1,	,225 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	400 ppm	980 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	STEL	500 ppm 1,	,225 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	AN ESL		200 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (12

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	1			
				2010)
SI	ESL		2,000 ppb	US. Texas. Effects Screening Levels (Texas
	LOL			Commission on Environmental Quality) (12
				2010)
ΔΛ	N ESL		492 μg/m3	US. Texas. Effects Screening Levels (Texas
	LOL		, •	Commission on Environmental Quality) (12
				2010)
Sī	ESL		4,920 µg/m3	US. Texas. Effects Screening Levels (Texas
				Commission on Environmental Quality) (12
				2010)
TV	VA PEL	400 ppm	980 mg/m3	US. California Code of Regulations, Title 8,
' '	V/ () LL		-	Section 5155. Airborne Contaminants (08
				2010)
SI	TEL	500 ppm	1,225 mg/m3	US. California Code of Regulations, Title 8,
				Section 5155. Airborne Contaminants (08
				2010)
S1	TEL	400 ppm		US. ACGIH Threshold Limit Values (12 2010)
TV	VA	200 ppm		US. ACGIH Threshold Limit Values (12 2010)
			000 mg/m2	US. NIOSH: Pocket Guide to Chemical
RE	EL	400 ppm	980 mg/m3	Hazards (2005)
		500 nnm	1 225 mg/m2	US. NIOSH: Pocket Guide to Chemical
S1	ΓEL	500 ppm	1,225 mg/m3	
		100	000/ 0	Hazards (2005)
PE	EL	400 ppm	980 mg/m3	US. OSHA Table Z-1 Limits for Air
				Contaminants (29 CFR 1910.1000) (02 2006)

Biological Limit Values

Chemical Identity	Exposure Limit Values	Source
2-Propanol (acetone:	40 mg/l (Urine)	ACGIH BEI (03 2013)
Sampling time: End of shift at		
end of work week.)		

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: Eye bath.

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

Skin Protection

Hand Protection: Latex gloves for normal use, Nitrile gloves recommended for spill cleanup

Other: No special precautions.

Respiratory Protection: None should be needed.

Hygiene measures: Avoid contact with eyes.

9. Physical and chemical properties

Appearance

Physical state: Liquid Form: liquid

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Color: According to product specification.

Odor: alcohol-like

Odor threshold:

pH:

estimated 7.0

Melting point/freezing point:

No data available.

Initial boiling point and boiling range: 87.0 °C Flash Point: 19.4 °C

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

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%): 12.7 %(V)
Flammability limit - lower (%): 2.2 %(V)

Explosive limit - upper (%): No data available. Explosive limit - lower (%): No data available.

Vapor pressure: 43 hPa

Vapor density: No data available.

Relative density: 0.880 0.88

Solubility(ies)

Solubility in water:SolubleSolubility (other):Soluble

Partition coefficient (n-octanol/water): No data available.

Auto-ignition temperature: 2 - 12.7 °C

Decomposition temperature:No data available. **Viscosity:**No data available.

Other information

Minimum ignition temperature: 425 °C

10. Stability and reactivity

Reactivity: No data available.

Chemical Stability: Material is stable under normal conditions.

Possibility of hazardous

reactions:

Not determined.

Conditions to avoid: Excessive heat.

Incompatible Materials: Strong oxidizers, potassium dioxide, bromine pentafluoride, acetyl bromide,

acetyl chloride, platinum, sodium

Hazardous Decomposition

Products:

Carbon Dioxide. Carbon Monoxide. Chlorinated compounds.

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11. Toxicological information

Information on likely routes of exposure

Ingestion: Due to the small packaging the risk of ingestion is minimal.

Inhalation: None under normal conditions.

Skin Contact: Prolonged or repeated skin contact may cause drying, cracking, or irritation.

Eye contact: Do not get in eyes.

Symptoms related to the physical, chemical and toxicological characteristics

Ingestion: No data available.

Inhalation: No specific symptoms noted.

Skin Contact: Repeated exposure may cause skin dryness or cracking.

Eye contact: Causes serious eye irritation. May cause permanent damage if eye is not

immediately irrigated.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: ATEmix: 73,913.04 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

Skin Corrosion/Irritation

Product: No data available.

Specified substance(s):

2-Propanol in vivo (Rabbit): Experimental result, Key study

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D-Gluconic acid, compd. with N1,N14bis(4-chlorophenyl)-3,12-diimino-2,4,11,13tetraazatetradecanedii midamide (2:1) in vivo (Rabbit): Experimental result, Key study in vivo (Rabbit): 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

Respiratory or Skin Sensitization

Product: No data available.

Specified substance(s):

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

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

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
Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

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Aspiration Hazard

Product: No data available.

Other effects: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

2-Propanol LC 50 (Fathead minnow (Pimephales promelas), 1 h): 11,830 mg/l Mortality

LC 50 (Goldfish (Carassius auratus), 24 h): > 5,000 mg/l Mortality LC 50 (Western mosquitofish (Gambusia affinis), 48 h): > 1,400 mg/l

Mortality

LC 50 (Fathead minnow (Pimephales promelas), 48 h): 11,130 mg/l Mortality LC 50 (Fathead minnow (Pimephales promelas), 96 h): 9,230 - 10,000 mg/l

Mortality

D-Gluconic acid, compd.

with N1,N14-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-totraggetetradocanadi

tetraazatetradecanediimi

damide (2:1)

LC 50 (Zebra danio (Danio rerio), 96 h): 2.08 mg/l

LC 50 (Danio rerio, 96 h): 2.08 mg/l Experimental result, Key study LC 10 (Poecilia reticulata, 5 d): 22 mg/l Experimental result, Supporting

study

LC 0 (Danio rerio, 96 h): 2 mg/l Experimental result, Key study LC 100 (Danio rerio, 96 h): 3.6 mg/l Experimental result, Key study

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

2-Propanol LC 50 (Daphnia magna, 24 h): > 10,000 mg/l Experimental result, Key study

ED 0 (Daphnia magna, 24 h): 5,102 mg/l Experimental result, Supporting

study

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 0 (Daphnia magna, 24 h): 5,000 mg/l Experimental result, Key study

D-Gluconic acid, compd. with N1,N14-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-

tetraazatetradecanediimi

damide (2:1)

EC 100 (Daphnia magna, 48 h): 0.12 mg/l Experimental result, Key study EC 50 (Daphnia magna, 48 h): 0.087 mg/l Experimental result, Key study ED 0 (Daphnia magna, 48 h): 0.04 mg/l Experimental result, Key study EC 50 (Daphnia magna, 48 h): 0.05 - 0.1 mg/l Experimental result, Not specified

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Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

D-Gluconic acid, compd. with N1,N14-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediimi damide (2:1)

NOAEL (Daphnia magna, 21 d): 20.6 μ g/l Experimental result, Key study EC 50 (Daphnia magna, 21 d): 35.8 μ g/l Experimental result, Key study LOAEL (Daphnia magna, 21 d): 61.8 μ g/l Experimental result, Key study EC 100 (Daphnia magna, 21 d): 61.8 μ g/l Experimental result, Key study

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

D-Gluconic acid, compd. with N1,N14-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediimii

52 % Detected in water. Experimental result, Key study 100 % Detected in water. Experimental result, Not specified 79 % Detected in water. Experimental result, Key study 71 % Detected in water. Experimental result, Key study

tetraazatetradecanediimid 90 % (28 d) Detected in water. Experimental result, Not specified

amide (2:1)

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Specified substance(s):

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D-Gluconic acid, compd. with N1,N14-bis(4-

chlorophenyl)-3,12-diimino-2,4,11,13-

tetraazatetradecanediimid

amide (2:1)

Leuciscus idus, Bioconcentration Factor (BCF): 42 Aquatic sediment

Experimental result, Key study

Leuciscus idus, Bioconcentration Factor (BCF): 40 Aquatic sediment

Experimental result, Key study

Bioconcentration Factor (BCF): 1.77 Aquatic sediment Read-across from supporting substance (structural analogue or surrogate), Supporting study Green algae (Chlorella fusca vacuolata), Bioconcentration Factor (BCF):

2,560 (Static)

Carp (Leuciscus idus melanotus), Bioconcentration Factor (BCF): 42

(Renewal)

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Specified substance(s):

2-Propanol Log Kow: 0.05

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

No data available.

No data available.

2-Propanol D-Gluconic acid, compd.

with N1,N14-bis(4-

chlorophenyl)-3,12-diimino-

2,4,11,13-

tetraazatetradecanediimida

mide (2:1)

Other adverse effects: No data available.

13. Disposal considerations

General information: Dispose of waste and residues in accordance with local authority

requirements.

Disposal instructions: 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: No data available.

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14. Transport information

DOT

UN Number: UN 1219 UN Proper Shipping Name: Isopropanol

Transport Hazard Class(es)

Class: 3
Label(s): 3
Packing Group: II
Marine Pollutant: No

Special precautions for user: Ltd. Qty

IMDG

UN Number: UN 1219

UN Proper Shipping Name: ISOPROPANOL

Transport Hazard Class(es)

Class: 3 Subsidiary risk: 3

EmS No.: F-E, S-D

Packing Group:

Environmental Hazards

Marine Pollutant: No

Special precautions for user: Ltd. Qty

IATA

UN Number: ID 8000

Proper Shipping Name: Consumer commodity

Transport Hazard Class(es):

Class: 9
Subsidiary risk: 9MI
Packing Group: –

Environmental Hazards

Marine pollutant: No

Special precautions for user: LQ

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. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

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CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity Reportable quantity

2-Propanol 100 lbs.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Fire Hazard

Immediate (Acute) Health Hazards

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)

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

Chemical Identity Reportable quantity

2-Propanol 100 lbs.

SARA 311/312 Hazardous Chemical

Chemical Identity Threshold Planning Quantity

2-Propanol 10000 lbs D-Gluconic acid, compd. 10000 lbs

with N1,N14-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanedi

tetraazatetradecanediimid

amide (2:1)

SARA 313 (TRI Reporting)

Reporting Reporting threshold for

threshold for manufacturing and

Chemical Identityother usersprocessing2-Propanol10000 lbs25000 lbs.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

No ingredient regulated by CA Prop 65 present.

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

Chemical Identity

2-Propanol

US. Massachusetts RTK - Substance List

Chemical Identity

2-Propanol

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

2-Propanol

US. Rhode Island RTK

Chemical Identity

2-Propanol

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

HMIS Hazard ID

Health	2
Flammability	3
Physical Hazards	0
PERSONAL PROTECTION	В

B - Safety Glasses & Gloves

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; *Chronic health effect

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible

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Version #: 1.0

Revision Information:

Further Information: No data available.

Disclaimer: Disclaimer:

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