

SAFETY DATA SHEET

. Identification			
roduct identifier			
Product No.:	Product name	e:	Common name(s), synonym(s)
260449	BD™ ChloraP Sepp Applicato	rep™ One-Step ors	
Other means of identificat SDS number:			
Recommended use and re	striction on use		
Recommended use: Ski Restrictions on use: For			
Manufacturer/Importer/Su	pplier/Distributor I	Information	
Manufacturer			
Company Name: Address:	Becton Dickinson 1550 Northwestern Dr El Paso, TX 79912USA		
Telephone: Fax:			8 a.m. to 5 p.m. CT)
Contact Person:	Customer Service		
Emergency teleph	one number: Chen	nTrec 1 800 424 9	0300
2. Hazard(s) identification	n		
Hazard Classification			
Physical Hazards			
Flammable liquids	;	Category 2	
Health Hazards			
Serious Eye Dama	Serious Eye Damage/Eye Irritation		
Specific Target Or Single Exposure	gan Toxicity -	Category 3	
Environmental Haza	irds		
Acute hazards to t environment	he aquatic	Category 2	
Chronic hazards to the aquatic		Category 3	

Label Elements

Hazard Symbol:

environment



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



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/effect	ts, 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:	Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate.
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

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	S
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

8. Exposure controls/personal protection

children.

Control Parameters

Occupational Exposure Limits

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 ppt	US. Texas. Effects Screening Levels (Texas



		Commission on Environmental Quality) (12 2010)
ST ESL	2,000 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (12 2010)
AN ESL	492 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (12 2010)
ST ESL	4,920 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (12 2010)
TWA PEL	400 ppm 980 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (08 2010)
STEL	500 ppm 1,225 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (08 2010)
STEL	400 ppm	US. ACGIH Threshold Limit Values (12 2010)
TWA	200 ppm	US. ACGIH Threshold Limit Values (12 2010)
REL	400 ppm 980 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
STEL	500 ppm 1,225 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
PEL	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: Sampling time: End of shift at	40 mg/l (Urine)	ACGIH BEI (03 2013)
end of work week.)		

Appropriate Engineering
ControlsAdequate 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

Form:liquidColor:ClearOdor threshold:alcohol-likeOdor threshold:No data available.pH:estimated 7.0Melting point/freezing point:No data available.Initial boiling point and boiling range:87.0 °CFlash Point:19.4 °CEvaporation rate:No data available.Flammability (solid, gas):Flammabe liquidUpper/lower limit on flammability or explosive limitsFlammability limit - upper (%):12.7 %(V)Flammability limit - lower (%):2.2 %(V)Explosive limit - lower (%):No data available.Explosive limit - lower (%):No data available.Vapor pressure:43 hPaVapor density:No data available.Solubility (int)SolubleSolubility (other):SolubleSolubility (other):No data available.Auto-ignition temperature:No data available.Viscosity:No data available.Viscosity:No data available.Viscosity:No data available.Kitti Auto-ignition temperature:No data available.Viscosity:No data available.Fitti Auto-ignition temperature:No data avail	Physical state:	liquid
Odor:alcohol-likeOdor threshold:No data available.pH:estimated 7.0Melting point/freezing point:No data available.Initial boiling point and boiling range:87.0 °CFlash Point:19.4 °CEvaporation rate:No data available.Flammability (solid, gas):Flammable liquidUpper/lower limit on flammability or explosiveImitsFlammability (solid, gas):12.7 %(V)Flammability limit - upper (%):2.2 %(V)Explosive limit - lower (%):No data available.Explosive limit - lower (%):No data available.Vapor pressure:43 hPaVapor density:No data available.Relative density:0.880Solubility(ies)SolubleSolubility (other):SolublePartition coefficient (n-octanol/water):No data available.Auto-ignition temperature:Product is not self-igniting.Decomposition temperature:No data available.Viscosity:No data available.	Form:	liquid
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Auto-ignition temperature:Product is not self-igniting.Decomposition temperature:No data available.Viscosity:No data available.	Solubility (other):	Soluble
Decomposition temperature:No data available.Viscosity:No data available.	Partition coefficient (n-octanol/water):	No data available.
Viscosity: No data available.	Auto-ignition temperature:	Product is not self-igniting.
-	Decomposition temperature:	No data available.
Other information	Viscosity:	No data available.
	Other information	
Minimum ignition temperature: 425 °C		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	Carbon Dioxide. Carbon Monoxide. Chlorinated compounds.
Products:	

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.		
		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 Ingestion:		I, chemical and toxicological characteristics 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.	



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07417 USA
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Specified substance(s): 2-Propanol	in vivo (Rabbit): Experimental result, Key study
D-Gluconic acid, compd. with N1,N14- bis(4-chlorophenyl)- 3,12-diimino-2,4,11,13- tetraazatetradecanedii midamide (2:1)	in vivo (Rabbit): Experimental result, Key study in vivo (Rabbit): Experimental result, Supporting study
Serious Eye Damage/Eye Irritatio Product:	on No data available.
Respiratory or Skin Sensitizatior 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 Evalua No carcinogenic comp	tion of Carcinogenic Risks to Humans: ponents identified
US. National Toxicology Program No carcinogenic comp	
US. OSHA Specifically Regulated No carcinogenic comp	I Substances (29 CFR 1910.1001-1050): ponents 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 - Product:	Single Exposure No data available.
Specific Target Organ Toxicity - Product:	Repeated Exposure 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 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- 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	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

damide (2:1)



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- 		
		Toxicity to Aquatic Plants Product:
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- tetraazatetradecanediimid amide (2:1)	 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 90 % (28 d) Detected in water. Experimental result, Not specified 	
BOD/COD Ratio Product:	No data available.	
Bioaccumulative potential Bioconcentration Factor (BC Product:	F) No data available.	
Specified substance(s):		



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-octan Product:	ol / water (log Kow) No data available.
Specified substance(s): 2-Propanol	Log Kow: 0.05
Mobility in soil:	No data available.
Known or predicted distribut 2-Propanol D-Gluconic acid, compd. with N1,N14-bis(4- chlorophenyl)-3,12-diimino- 2,4,11,13- tetraazatetradecanediimida mide (2:1)	tion to environmental compartments No data available. No data available.
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. RCRA D001
Contaminated Packaging:	No data available.



14. Transport information

DOT	
UN Number:	UN 1219
UN Proper Shipping Name: Transport Hazard Class(es)	Isopropanol
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: Transport Hazard Class(es)	ISOPROPANOL
Class:	3
Subsidiary risk:	3
EmS No.:	F-E, S-D
Packing Group:	11
Environmental Hazards	N L-
Marine Pollutant:	No
Special precautions for user:	Ltd. Qty
ΙΑΤΑ	
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
On a sick and a stimulation of the second	
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.





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 liquids Serious Eye Damage/Eye Irritation Specific Target Organ Toxicity - Single Exposure Static-accumulating flammable liquid

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
2-PropanolThreshold Planning Quantity
10000 lbsD-Gluconic acid, compd.
with N1,N14-bis(4-
chlorophenyl)-3,12-
diimino-2,4,11,13-
tetraazatetradecanediimid
amide (2:1)Threshold Planning Quantity
10000 lbs

SARA 313 (TRI Reporting)

	Reporting threshold for	<u>Reporting threshold for</u> manufacturing and
Chemical Identity	other users	processing
2-Propanol	10000 lbs	25000 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.



US. New Jersey Worker and Community Right-to-Know Act <u>Chemical Identity</u> 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



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

Issue Date:

03/05/2018



Version #: Revision Information:	1.0
Further Information:	No data available.
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