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# SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

## 1. Identification

Product No.:	Product name:	Common name(s), synonym(s)
930715	BD™ ChloraPrep™ Sterile Solution Applicator with Hi-Lite Orange™ Tint, 10.5 mL	No data available
930815	BD™ ChloraPrep™ Sterile Solution Applicator with Hi-Lite Orange™ Tint, 26 mL	No data available

### Recommended restrictions

**Recommended use:** Skin Antiseptic

**Restrictions on use:** For External Use Only

### Manufacturer/Importer/Distributor Information

#### Manufacturer

Company Name: Becton Dickinson  
Address: 1550 Northwestern Dr  
El Paso, TX 79912 USA

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

Fax:

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 -  
Single Exposure Category 3

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### Environmental Hazards

Acute hazards to the aquatic environment	Category 3
Chronic hazards to the aquatic environment	Category 3

### Label Elements

#### Hazard Symbol:



<b>Signal Word:</b>	Danger
<b>Hazard Statement:</b>	H225: Highly flammable liquid and vapor. H319: Causes serious eye irritation. H336: May cause drowsiness or dizziness. H412: Harmful to aquatic life with long lasting effects.

#### Precautionary Statements

<b>Prevention:</b>	P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P242: Use non-sparking tools. P261: Avoid breathing dust/fume/gas/mist/vapors/spray. P264: Wash face, hands and any exposed skin thoroughly after handling. P271: Use only outdoors or in a well-ventilated area. P273: Avoid release to the environment. P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.
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<b>Response:</b>	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 or doctor/ physician 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 dry sand, dry chemical or alcohol-resistant foam for extinction.
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**Storage:** P403+P233: Store in a well-ventilated place. Keep container tightly closed.

**Disposal:** P501: Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.

**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	62.3%
D-Gluconic acid, compd. with N1,N14-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediimidamide (2:1)	No data available.	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

#### Description of first aid measures

**General information:** Get medical attention if symptoms occur.

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

**Skin Contact:** Wash skin thoroughly with soap and water.



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<b>Eye contact:</b>	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention if symptoms persist.
<b>Ingestion:</b>	Drink plenty of water. Get medical attention immediately.
<b>Personal Protection for First-aid Responders:</b>	No data available.
<b>Most important symptoms and effects, both acute and delayed Symptoms:</b>	No data available.
<b>Hazards:</b>	No data available.
<b>Indication of immediate medical attention and special treatment needed</b>	
<b>Treatment:</b>	No data available.

## 5. Fire-fighting measures

<b>General Fire Hazards:</b>	No unusual fire or explosion hazards noted.
<b>Suitable (and unsuitable) extinguishing media</b>	
<b>Suitable extinguishing media:</b>	Use: Water. Water fog. Dry chemical. Alcohol foam.
<b>Unsuitable extinguishing media:</b>	Not applicable
<b>Special hazards arising from the substance or mixture:</b>	No data available.
<b>Special protective equipment and precautions for fire-fighters</b>	
<b>Special fire-fighting procedures:</b>	No unusual fire or explosion hazards noted.
<b>Special protective equipment for fire-fighters:</b>	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



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<b>Personal precautions, protective equipment and emergency procedures:</b>	See Section 8 of the SDS for Personal Protective Equipment.
<b>Accidental release measures:</b>	Considering the size of the packaging, the risk is regarded as minimal.
<b>Methods and material for containment and cleaning up:</b>	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.
<b>Environmental Precautions:</b>	Avoid release to the environment.

## 7. Handling and storage

### Handling

<b>Technical measures:</b>	No data available.
<b>Local/Total ventilation:</b>	No data available.
<b>Safe handling advice:</b>	Do not eat, drink or smoke when using the product. Avoid ingestion. Avoid contact with eyes, ears, mouth For External Use Only
<b>Contact avoidance measures:</b>	No data available.

### Storage

<b>Safe storage conditions:</b>	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 temperature 15 - 30°C. Protect from freezing. Avoid excessive heat (40°C). Store isolated from oxidizers, ignition sources, and explosives. Consult local fire codes for additional storage information. Keep out of reach of children.
<b>Safe packaging materials:</b>	No data available.



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**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 <sup>3</sup>	OSHA Z1A
	STEL	500 ppm	1,225 mg/m <sup>3</sup>	OSHA Z1A
	TWA	400 ppm	980 mg/m <sup>3</sup>	TN OEL
	STEL	500 ppm	1,225 mg/m <sup>3</sup>	TN OEL
	AN ESL		200 ppb	TX ESL
	ST ESL		2,000 ppb	TX ESL
	AN ESL		492 µg/m <sup>3</sup>	TX ESL
	ST ESL		4,920 µg/m <sup>3</sup>	TX ESL
	TWA PEL	400 ppm	980 mg/m <sup>3</sup>	US CA OEL
	STEL	500 ppm	1,225 mg/m <sup>3</sup>	US CA OEL
	TWA	200 ppm		ACGIH
	STEL	400 ppm		ACGIH
	STEL	500 ppm	1,225 mg/m <sup>3</sup>	NIOSH
	REL	400 ppm	980 mg/m <sup>3</sup>	NIOSH
	IDLH	2,000 ppm		NIOSH IDLH
	LEL		2.0 %	NIOSH IDLH
	PEL	400 ppm	980 mg/m <sup>3</sup>	OSHA Z1



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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
2-Propanol	acetone  Sampling time: End of shift at end of work week.	40 mg/l (Urine)	ACGIH BEI

### Appropriate Engineering Controls

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

#### Skin and Body Protection:

No special precautions.

#### Respiratory Protection:

None should be needed.



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**Hygiene measures:** Avoid contact with eyes.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

#### Appearance

**Physical state:** liquid  
**Form:** liquid  
**Color:** According to product specification.

**Odor:** Alcohol  
**Odor Threshold:** No data available.  
**Freezing point:** No data available.  
**Boiling Point:** 188.6 °F/87.0 °C  
**Flammability:** Flammable liquid

#### Upper/lower limit on flammability or explosive limits

**Explosive limit - upper:** 12.7 %(V)  
**Explosive limit - lower:** 2.2 %(V)

**Flash Point:** 68.2 °F/20.1 °C  
Method: Closed Cup

75.2 °F/24.0 °C  
Method: Open Cup

**Self-ignition:** Product is not self-igniting.

**Decomposition Temperature:** No data available.

**pH:** estimated  
7.0

#### Viscosity

**Dynamic viscosity:** No data available.  
**Kinematic viscosity:** No data available.  
**Flow Time:** No data available.

#### Solubility(ies)

**Solubility in Water:** Soluble



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<b>Solubility (other):</b>	Soluble
<b>Partition coefficient (n-octanol/water):</b>	No data available.
<b>Vapor pressure:</b>	43 hPa
<b>Relative density:</b>	0.880
<b>Density:</b>	No data available.
<b>Bulk density:</b>	No data available.
<b>Relative vapor density:</b>	No data available.

**Other information**

<b>Auto-ignition temperature:</b>	797 °F/425 °C
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**10. Stability and reactivity**

<b>Reactivity:</b>	Material is stable under normal conditions.
<b>Chemical Stability:</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions:</b>	Not determined.
<b>Conditions to avoid:</b>	Excessive heat.
<b>Incompatible Materials:</b>	Strong oxidizers, potassium dioxide, bromine pentafluoride, acetyl bromide, acetyl chloride, platinum, sodium
<b>Hazardous Decomposition Products:</b>	Carbon Dioxide. Carbon Monoxide. Chlorinated compounds.

**11. Toxicological information**

**Information on likely routes of exposure**

<b>Inhalation:</b>	None under normal conditions.
<b>Skin Contact:</b>	Prolonged or repeated skin contact may cause drying, cracking, or irritation.
<b>Eye contact:</b>	Do not get in eyes.



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

**Symptoms related to the physical, chemical and toxicological characteristics**

**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.

**Ingestion:** No data available.

**Acute toxicity (list all possible routes of exposure)**

**Oral**

**Product:** ATEmix, 73,913.04 mg/kg  
**Components:**  
2-Propanol LD 50, Rat, 5,045 mg/kg  
D-Gluconic acid, compd. LD 50, Rat, 2,000 mg/kg  
with N1,N14-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediiimid amide (2:1) LD 50, Mouse, 1,700 mg/kg, 2 = reliable with restrictions

**Dermal**

**Product:** No data available.  
**Components:**  
2-Propanol No data available.  
D-Gluconic acid, compd. LD 50, Rabbit, 5,000 mg/kg, 2 = reliable with restrictions  
with N1,N14-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediiimid amide (2:1) LD 50, Rabbit, > 5,000 mg/kg, 2 = reliable with restrictions, Experimental result, Key study

**Inhalation**

**Product:** No data available.  
**Components:**  
2-Propanol No data available.  
D-Gluconic acid, compd. No data available.  
with N1,N14-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediiimid



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amide (2:1)

**Repeated dose toxicity**

**Product:** No data available.  
**Components:**  
2-Propanol No data available.  
D-Gluconic acid, compd. No data available.  
with N1,N14-bis(4-  
chlorophenyl)-3,12-  
diimino-2,4,11,13-  
tetraazatetradecanediimid  
amide (2:1)

**Skin Corrosion/Irritation**

**Product:** No data available.  
**Components:**  
2-Propanol No data available.  
D-Gluconic acid, compd. No data available.  
with N1,N14-bis(4-  
chlorophenyl)-3,12-  
diimino-2,4,11,13-  
tetraazatetradecanediimid  
amide (2:1)

**Serious Eye Damage/Eye Irritation**

**Product:** No data available.  
**Components:**  
2-Propanol No data available.  
D-Gluconic acid, compd. No data available.  
with N1,N14-bis(4-  
chlorophenyl)-3,12-  
diimino-2,4,11,13-  
tetraazatetradecanediimid  
amide (2:1)

**Respiratory or Skin Sensitization**

**Product:** No data available.  
**Components:**  
2-Propanol Skin sensitization:, in vivo, Guinea pig, Non sensitising  
D-Gluconic acid, compd. No data available.  
with N1,N14-bis(4-  
chlorophenyl)-3,12-  
diimino-2,4,11,13-  
tetraazatetradecanediimid  
amide (2:1)

**Carcinogenicity**

**Product:** No data available.



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**Components:**

2-Propanol	No data available.
D-Gluconic acid, compd. with N1,N14-bis(4- chlorophenyl)-3,12- diimino-2,4,11,13- tetraazatetradecanediimid amide (2:1)	No data available.

**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

No carcinogens present or none present in regulated quantities

**ACGIH: US.ACGIH Threshold Limit Values:**

No carcinogens present or none present in regulated quantities

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

No carcinogens present or none present in regulated quantities

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), 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.
D-Gluconic acid, compd. with N1,N14-bis(4- chlorophenyl)-3,12- diimino-2,4,11,13- tetraazatetradecanediimid amide (2:1)	No data available.

**In vivo**

**Product:** No data available.

**Components:**

2-Propanol	No data available.
D-Gluconic acid, compd. with N1,N14-bis(4- chlorophenyl)-3,12- diimino-2,4,11,13- tetraazatetradecanediimid amide (2:1)	No data available.

**Reproductive toxicity**

**Product:** No data available.

**Components:**

2-Propanol	No data available.
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D-Gluconic acid, compd. No data available.  
with N1,N14-bis(4-  
chlorophenyl)-3,12-  
diimino-2,4,11,13-  
tetraazatetradecanediimid  
amide (2:1)

**Specific Target Organ Toxicity - Single Exposure**

**Product:** No data available.  
**Components:**  
2-Propanol No data available.  
D-Gluconic acid, compd. No data available.  
with N1,N14-bis(4-  
chlorophenyl)-3,12-  
diimino-2,4,11,13-  
tetraazatetradecanediimid  
amide (2:1)

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** No data available.  
**Components:**  
2-Propanol No data available.  
D-Gluconic acid, compd. No data available.  
with N1,N14-bis(4-  
chlorophenyl)-3,12-  
diimino-2,4,11,13-  
tetraazatetradecanediimid  
amide (2:1)

**Aspiration Hazard**

**Product:** No data available.  
**Components:**  
2-Propanol No data available.  
D-Gluconic acid, compd. No data available.  
with N1,N14-bis(4-  
chlorophenyl)-3,12-  
diimino-2,4,11,13-  
tetraazatetradecanediimid  
amide (2:1)

**Information on health hazards**

**Other hazards**

**Product:** No data available.



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## 12. Ecological information

### Ecotoxicity:

#### Acute hazards to the aquatic environment:

##### Fish

<b>Product:</b>	No data available.
<b>Components:</b>	
2-Propanol	No data available.
D-Gluconic acid, compd. with N1,N14-bis(4- chlorophenyl)-3,12- diimino-2,4,11,13- tetraazatetradecanediimi damide (2:1)	No data available.

##### Aquatic Invertebrates

<b>Product:</b>	No data available.
<b>Components:</b>	
2-Propanol	No data available.
D-Gluconic acid, compd. with N1,N14-bis(4- chlorophenyl)-3,12- diimino-2,4,11,13- tetraazatetradecanediimi damide (2:1)	No data available.

##### Toxicity to Aquatic Plants

<b>Product:</b>	No data available.
<b>Components:</b>	
2-Propanol	No data available.
D-Gluconic acid, compd. with N1,N14-bis(4- chlorophenyl)-3,12- diimino-2,4,11,13- tetraazatetradecanediimid amide (2:1)	No data available.

##### Toxicity to microorganisms

<b>Product:</b>	No data available.
<b>Components:</b>	
2-Propanol	No data available.
D-Gluconic acid, compd. with N1,N14-bis(4-	No data available.



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chlorophenyl)-3,12-  
diimino-2,4,11,13-  
tetraazatetradecanediimid  
amide (2:1)

**Chronic hazards to the aquatic environment:**

**Fish**

<b>Product:</b>	No data available.
<b>Components:</b>	
2-Propanol	No data available.
D-Gluconic acid, compd. with N1,N14-bis(4- chlorophenyl)-3,12- diimino-2,4,11,13- tetraazatetradecanediimi damide (2:1)	No data available.

**Aquatic Invertebrates**

<b>Product:</b>	No data available.
<b>Components:</b>	
2-Propanol	No data available.
D-Gluconic acid, compd. with N1,N14-bis(4- chlorophenyl)-3,12- diimino-2,4,11,13- tetraazatetradecanediimi damide (2:1)	No data available.

**Toxicity to microorganisms**

<b>Product:</b>	No data available.
<b>Components:</b>	
2-Propanol	No data available.
D-Gluconic acid, compd. with N1,N14-bis(4- chlorophenyl)-3,12- diimino-2,4,11,13- tetraazatetradecanediimid amide (2:1)	No data available.

**Persistence and Degradability**

**Biodegradation**

<b>Product:</b>	No data available.
<b>Components:</b>	
2-Propanol	53 %, 5 d, Experimental result, Key study Detected in water.



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D-Gluconic acid, compd. 65 %, Experimental result, Key study Detected in water.  
with N1,N14-bis(4- 100 %, Experimental result, Not specified Detected in water.  
chlorophenyl)-3,12- > 0 %, Experimental result, Key study Detected in water.  
diimino-2,4,11,13- 79 %, Experimental result, Key study Detected in water.  
tetraazatetradecanediimid 71 %, Experimental result, Key study Detected in water.  
amide (2:1)

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

**Product:** No data available.  
**Components:**  
2-Propanol No data available.  
D-Gluconic acid, compd. No data available.  
with N1,N14-bis(4-  
chlorophenyl)-3,12-  
diimino-2,4,11,13-  
tetraazatetradecanediimid  
amide (2:1)

#### **Bioaccumulative potential**

##### **Bioconcentration Factor (BCF)**

**Product:** No data available.  
**Components:**  
2-Propanol No data available.  
D-Gluconic acid, compd. Green algae (*Chlorella fusca vacuolata*), 2,560, Static  
with N1,N14-bis(4- Carp (*Leuciscus idus melanotus*), 42, Renewal  
chlorophenyl)-3,12- *Leuciscus idus*, 42, Experimental result, Key study Aquatic sediment  
diimino-2,4,11,13- *Leuciscus idus*, 40, Experimental result, Key study Aquatic sediment  
tetraazatetradecanediimid  
amide (2:1)

##### **Partition Coefficient n-octanol / water (log Kow)**

**Product:** No data available.  
**Components:**  
2-Propanol No data available.  
D-Gluconic acid, compd. No data available.  
with N1,N14-bis(4-  
chlorophenyl)-3,12-  
diimino-2,4,11,13-  
tetraazatetradecanediimid  
amide (2:1)

#### **Mobility in soil:**

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



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D-Gluconic acid, comp. with No data available.  
N1,N14-bis(4-chlorophenyl)-  
3,12-diimino-2,4,11,13-  
tetraazatetradecanediimidam  
ide (2:1)

**Results of PBT and vPvB assessment:**

**Product:** No data available.  
**Components:**  
2-Propanol No data available.  
D-Gluconic acid, comp. with No data available.  
N1,N14-bis(4-chlorophenyl)-  
3,12-diimino-2,4,11,13-  
tetraazatetradecanediimidam  
ide (2:1)

**Other adverse effects:**

**Other hazards**  
**Product:** No data available.

**13. Disposal considerations**

**General information:** Dispose of waste and residues in accordance with local authority requirements.  
**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:** No data available.

**14. Transport information**

Environmental Hazards

Environmentally Hazardous: No



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Marine Pollutant: No

### IATA

UN number or ID number: ID 8000  
UN Proper Shipping Name: Consumer commodity  
Transport Hazard Class(es)  
Class: 9  
Label(s): 9MI (Miscellaneous)  
Packing Group: -  
Passenger and cargo aircraft : Y963  
Limited quantity None.

### Environmental Hazards

Environmentally Hazardous: No  
Marine Pollutant: No  
Special precautions for user: PG

Passenger and cargo aircraft: Allowed. Y963  
Cargo aircraft only : Allowed. Y963

### IMDG

UN number or ID number: UN 1219  
UN Proper Shipping Name: ISOPROPANOL



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Transport Hazard Class(es)

Class:	3
Label(s):	3
EmS No.:	F-E, S-D
Packing Group:	II
Limited quantity	None.

Environmental Hazards

Environmentally Hazardous:	No
Marine Pollutant:	No
Special precautions for user:	PG

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

<b>15. Regulatory information</b>
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**US Federal Regulations**

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

None present or none present in regulated quantities.



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**US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Proposed 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 1910.1001-1053), as amended**

None present or none present in regulated quantities.

**CERCLA Hazardous Substance List (40 CFR 302.4):**

**Chemical Identity**

RCRA HAZARDOUS WASTE NO. D001

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**

Flammable (gases, aerosols, liquids, or solids), 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. EPCRA (SARA Title III Section 313 Toxic Chemical Release Inventory (TRI) Reporting**



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<b><u>Chemical Identity</u></b>	<b><u>% by weight</u></b>
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Isopropyl alcohol (Isopropanol) (only persons who manufacture by the strong acid process are subject, no supplier notification)	1.0%
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**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.

**International regulations**

**Montreal protocol**

Not applicable

**Stockholm convention**

Not applicable

**Rotterdam convention**

Not applicable

**Kyoto protocol**

Not applicable

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

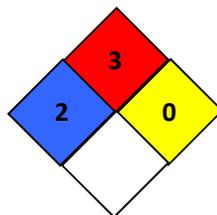
**HMIS Hazard ID**

<b>Health</b>		2
<b>Flammability</b>		3
<b>Physical Hazards</b>		0
<b>PERSONAL PROTECTION</b>		B

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**



	Flammability
	Health
	Reactivity
	Special hazard.

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

**Version #:** 1.1

**Generation date:** 09/30/2024



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**Date of first report**            07/31/2019  
**version:**

**Abbreviations and acronyms:**

- :                                    US. California Code of Regulations, Title 8, Section 5155.  
Airborne Contaminants
  
- :                                    US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A
  
- ACGIH:                            US. ACGIH Threshold Limit Values, as amended
  
- ACGIH BEI:                        US. ACGIH. BEIs. Biological Exposure Indices, as amended
  
- NIOSH IDLH:                      US. NIOSH. Immediately Dangerous to Life or Health (IDLH)  
Values, as amended
  
- NIOSH/GUIDE:                    US. NIOSH: Pocket Guide to Chemical Hazards, as amended
  
- OSHA\_TRANS:                    US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR  
1910.1000), as amended
  
- TX ESL:                            US. Texas. Effects Screening Levels (Texas Commission on  
Environmental Quality), as amended
  
- Z1A:                                US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
  
- / STEL:                            Short Term Exposure Limit (STEL):
  
- / TWA PEL:                        Time Weighted Average (TWA) Permissible Exposure Limit  
(PEL):
  
- / STEL:                            Short Term Exposure Limit (STEL):
  
- / TWA:                             Time Weighted Average (TWA):
  
- ACGIH / STEL:                    Short Term Exposure Limit (STEL):
  
- ACGIH / TWA:                    Time Weighted Average (TWA):
  
- NIOSH IDLH / LEL:                Lower Explosive Limit (LEL):
  
- NIOSH IDLH / IDLH:              Immediately dangerous to life or health (IDLH) concentration:
  
- NIOSH/GUIDE / REL:             Recommended exposure limit (REL):



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NIOSH/GUIDE / STEL: Short Term Exposure Limit (STEL):  
OSHA\_TRANS / PEL: Permissible exposure limit:  
TX ESL / ST ESL: Short-Term ESL:  
TX ESL / AN ESL: Annual ESL:  
Z1A / STEL: Short Term Exposure Limit (STEL):  
Z1A / TWA: Time Weighted Average (TWA):

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund



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Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

**Further Information:** No data available.

**Disclaimer**

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