



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

Version: 1.2  
Last revised date: 12/30/2025

# SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

## 1. Identification

| Product No.: | Product name:                                                 | Common name(s),<br>synonym(s) |
|--------------|---------------------------------------------------------------|-------------------------------|
| 930299       | BD™ ChloroPrep™ Frepp Sterile Solution Applicator             | No data available             |
| 930700       | BD™ ChloroPrep™ Sterile Solution Applicator Clear,<br>10.5 mL | No data available             |
| 930800       | BD™ ChloroPrep™ Sterile Solution Applicator Clear,<br>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



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## 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 |

### Environmental Hazards

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

## Label Elements

### Hazard Symbol:



### Signal Word:

Danger

### Hazard Statement:

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

#### Prevention:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
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.

#### Response:

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P312: Call a POISON CENTER or doctor/ physician if you feel unwell.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several



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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.

**Storage:** P403+P233: Store in a well-ventilated place. Keep container tightly closed.  
P235: Keep cool.  
P405: Store locked up.

**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 (%) <sup>*</sup> |
|----------------------------------------------------------------------------------------------------------------------|--------------------------|------------|-------------------------------------|
| 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-tetraazatetradecanediiimidamide (2:1) | No data available.       | 18472-51-0 | 2.3%                                |

<sup>\*</sup> 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</b>            |                                                                                                                                                  |
| <b>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> | Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. |
|------------------------------|-------------------------------------------------------------------------------------|

### Suitable (and unsuitable) extinguishing media

|                                      |                                                    |
|--------------------------------------|----------------------------------------------------|
| <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. |
|---------------------------------------------------------------|--------------------|

### Special protective equipment and precautions for fire-fighters

|                                          |                                             |
|------------------------------------------|---------------------------------------------|
| <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. |
|--------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|



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## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures:**

See Section 8 of the SDS for Personal Protective Equipment.

**Accidental release measures:**

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

**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.

**Environmental Precautions:**

Avoid release to the environment.

## 7. Handling and storage

### Handling

**Technical measures:**

No data available.

**Local/Total ventilation:**

No data available.

**Safe handling advice:**

Do not eat, drink or smoke when using the product. Avoid ingestion. For External Use Only Avoid contact with eyes, skin, and clothing.

**Contact avoidance measures:**

No data available.

### Storage

**Safe storage conditions:**

Store in a cool, dry place. Comply with all national, state, and local codes pertaining to the storage, handling,



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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.

**Safe packaging materials:**

No data available.

## 8. Exposure controls/personal protection

### Control ParametersOccupational Exposure Limits

| Components | Type       | Form of exposure | Exposure Limit Values |             | Source              |
|------------|------------|------------------|-----------------------|-------------|---------------------|
| 2-Propanol | TWA        |                  | 400 ppm               | 980 mg/m3   | OSHA Z1A (1989)     |
|            | STEL       |                  | 500 ppm               | 1,225 mg/m3 | OSHA Z1A (1989)     |
|            | TWA        |                  | 400 ppm               | 980 mg/m3   | TN OEL (06 2008)    |
|            | STEL       |                  | 500 ppm               | 1,225 mg/m3 | TN OEL (06 2008)    |
|            | AN<br>ESL  |                  |                       | 200 ppb     | TX ESL (12 2010)    |
|            | ST<br>ESL  |                  |                       | 2,000 ppb   | TX ESL (12 2010)    |
|            | AN<br>ESL  |                  |                       | 492 µg/m3   | TX ESL (12 2010)    |
|            | ST<br>ESL  |                  |                       | 4,920 µg/m3 | TX ESL (12 2010)    |
|            | TWA<br>PEL |                  | 400 ppm               | 980 mg/m3   | US CA OEL (08 2010) |
|            | STEL       |                  | 500 ppm               | 1,225 mg/m3 | US CA OEL (08 2010) |



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|  |      |  |              |                |                      |
|--|------|--|--------------|----------------|----------------------|
|  | TWA  |  | 200 ppm      |                | ACGIH (12 2010)      |
|  | STEL |  | 400 ppm      |                | ACGIH (12 2010)      |
|  | STEL |  | 500 ppm      | 1,225<br>mg/m3 | NIOSH (2005)         |
|  | REL  |  | 400 ppm      | 980<br>mg/m3   | NIOSH (2005)         |
|  | IDLH |  | 2,000<br>ppm |                | NIOSH IDLH (10 2017) |
|  | LEL  |  |              | 2.0 %          | NIOSH IDLH (10 2017) |
|  | PEL  |  | 400 ppm      | 980<br>mg/m3   | OSHA Z1 (02 2006)    |

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 /<br>Sampling Time                                      | Exposure Limit Values | Source    |
|---------------|--------------------------------------------------------------------|-----------------------|-----------|
| 2-Propanol    | acetone<br><br>Sampling time: End of shift at<br>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 (PPE)

#### Eye/face protection:

Wear safety glasses with side shields (or goggles).

#### Skin Protection



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|                                  |                                                                                     |
|----------------------------------|-------------------------------------------------------------------------------------|
| <b>Hand Protection:</b>          | Material: Latex gloves for normal use, Nitrile gloves recommended for spill cleanup |
| <b>Skin and Body Protection:</b> | No special precautions.                                                             |
| <b>Respiratory Protection:</b>   | None should be needed.                                                              |
| <b>Hygiene measures:</b>         | Avoid contact with eyes.                                                            |

|                                            |
|--------------------------------------------|
| <b>9. Physical and chemical properties</b> |
|--------------------------------------------|

**Information on basic physical and chemical properties**

**Appearance**

|                        |                    |
|------------------------|--------------------|
| <b>Physical state:</b> | liquid             |
| <b>Form:</b>           | liquid             |
| <b>Color:</b>          | Clear              |
| <b>Odor:</b>           | Alcohol            |
| <b>Odor Threshold:</b> | No data available. |
| <b>Freezing point:</b> | No data available. |
| <b>Boiling Point:</b>  | 188.6 °F/ 87.0 °C  |
| <b>Flammability:</b>   | Flammable liquid   |

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

|                                 |           |
|---------------------------------|-----------|
| <b>Explosive limit - upper:</b> | 12.7 %(V) |
| <b>Explosive limit - lower:</b> | 2.2 %(V)  |



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|                     |                    |
|---------------------|--------------------|
| <b>Flash Point:</b> | 68.2 °F/20.1 °C    |
|                     | Method: Closed Cup |

|  |                  |
|--|------------------|
|  | 75.2 °F/24.0 °C  |
|  | Method: Open Cup |

|                                   |               |
|-----------------------------------|---------------|
| <b>Auto-ignition temperature:</b> | 797 °F/425 °C |
|-----------------------------------|---------------|

|                                   |                    |
|-----------------------------------|--------------------|
| <b>Decomposition Temperature:</b> | No data available. |
|-----------------------------------|--------------------|

|            |           |
|------------|-----------|
| <b>pH:</b> | estimated |
|            | 7.0       |

**Viscosity**

|                           |                    |
|---------------------------|--------------------|
| <b>Dynamic viscosity:</b> | No data available. |
|---------------------------|--------------------|

|                             |                    |
|-----------------------------|--------------------|
| <b>Kinematic viscosity:</b> | No data available. |
|-----------------------------|--------------------|

|                   |                    |
|-------------------|--------------------|
| <b>Flow Time:</b> | No data available. |
|-------------------|--------------------|

**Solubility(ies)**

|                             |         |
|-----------------------------|---------|
| <b>Solubility in Water:</b> | Soluble |
|-----------------------------|---------|

|                            |         |
|----------------------------|---------|
| <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. |
|----------------------|--------------------|



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**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.

**Surface charge/Zeta potential:** No data available.

**Shape:** No data available.

**Crystallinity:** No data available.

**Surface treatment:** No data available.

**Other information**

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

**Metal Corrosion:** Not Evaluated

**10. Stability and reactivity**

**Reactivity:** Material is stable under normal conditions.

**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:** No data available.



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## 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.                                                           |
| <b>Ingestion:</b>    | Due to the small packaging the risk of ingestion is minimal.                  |

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

|                      |                                                                                                |
|----------------------|------------------------------------------------------------------------------------------------|
| <b>Inhalation:</b>   | No specific symptoms noted.                                                                    |
| <b>Skin Contact:</b> | Repeated exposure may cause skin dryness or cracking.                                          |
| <b>Eye contact:</b>  | Causes serious eye irritation. May cause permanent damage if eye is not immediately irrigated. |
| <b>Ingestion:</b>    | No data available.                                                                             |

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

#### Oral

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

#### Dermal

|                         |                                                            |
|-------------------------|------------------------------------------------------------|
| <b>Product:</b>         | No data available.                                         |
| <b>Components:</b>      |                                                            |
| 2-Propanol              | No data available.                                         |
| D-Gluconic acid, compd. | LD 50, Rabbit, 5,000 mg/kg, 2 = reliable with restrictions |



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



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

#### **Serious Eye Damage/Eye Irritation**

|                 |                        |
|-----------------|------------------------|
| <b>Product:</b> | Causes eye irritation. |
|-----------------|------------------------|

##### **Components:**

|            |                    |
|------------|--------------------|
| 2-Propanol | No data available. |
|------------|--------------------|

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

#### **Respiratory or Skin Sensitization**

|                 |                    |
|-----------------|--------------------|
| <b>Product:</b> | No data available. |
|-----------------|--------------------|

##### **Components:**

|            |                    |
|------------|--------------------|
| 2-Propanol | No data available. |
|------------|--------------------|

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

#### **Carcinogenicity**

|                 |                    |
|-----------------|--------------------|
| <b>Product:</b> | 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)

#### **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. No data available.  
with N1,N14-bis(4-  
chlorophenyl)-3,12-  
diimino-2,4,11,13-  
tetraazatetradecanediimid  
amide (2:1)

##### **In vivo**

**Product:** No data available.

##### **Components:**

2-Propanol No data available.



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

#### Reproductive toxicity

|                 |                    |
|-----------------|--------------------|
| <b>Product:</b> | No data available. |
|-----------------|--------------------|

##### Components:

|            |                    |
|------------|--------------------|
| 2-Propanol | No data available. |
|------------|--------------------|

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

#### Specific Target Organ Toxicity - Single Exposure

|                 |                    |
|-----------------|--------------------|
| <b>Product:</b> | No data available. |
|-----------------|--------------------|

##### Components:

|            |                    |
|------------|--------------------|
| 2-Propanol | No data available. |
|------------|--------------------|

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

#### Specific Target Organ Toxicity - Repeated Exposure

|                 |                    |
|-----------------|--------------------|
| <b>Product:</b> | No data available. |
|-----------------|--------------------|

##### Components:

|            |                    |
|------------|--------------------|
| 2-Propanol | No data available. |
|------------|--------------------|



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with N1,N14-bis(4-  
chlorophenyl)-3,12-  
diimino-2,4,11,13-  
tetraazatetradecanediimid  
amide (2:1)

No data available.

#### Aspiration Hazard

**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.

#### Information on health hazards

##### Other hazards

**Product:** No data available.

## 12. Ecological information

### Ecotoxicity:

#### Toxicity to Aquatic Plants

**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.

#### Toxicity to microorganisms

**Product:** No data available.



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**Components:**

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

**Acute hazards to the aquatic environment:**

**Fish**

**Product:** No data available.

**Components:**

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

**Aquatic Invertebrates**

**Product:** No data available.

**Components:**

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

**Chronic hazards to the aquatic environment:**

**Fish**

**Product:** No data available.

**Components:**

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

**Aquatic Invertebrates**

**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)

## Persistence and Degradability

### Biodegradation

**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)

### 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-  
diimino-2,4,11,13-  
tetraazatetradecanediimid  
amide (2:1)

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

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



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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)      No data available.

**Mobility in soil:**

**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)

**Results of PBT and vPvB assessment:**

**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)

**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.



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#### 14. Transport information

##### DOT

|                               |             |
|-------------------------------|-------------|
| UN number or ID 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 or ID 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:                | II          |
| Environmental Hazards         |             |
| Marine Pollutant:             | No          |
| Special precautions for user: | Ltd. Qty    |

##### IATA

|                               |                    |
|-------------------------------|--------------------|
| UN number or ID 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



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**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 1910.1001-1053), as amended**

None present or none present in regulated quantities.

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

**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**

| <u>Chemical Identity</u>                                                                                                                       | <u>% by weight</u> |
|------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| Isopropyl alcohol<br>(Isopropanol) (only<br>persons who manufacture<br>by the strong acid<br>process are subject, no<br>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

|                                                                              |
|------------------------------------------------------------------------------|
| <b>16. Other information, including date of preparation or last revision</b> |
|------------------------------------------------------------------------------|

|                   |     |
|-------------------|-----|
| <b>Version #:</b> | 1.2 |
|-------------------|-----|

|                       |            |
|-----------------------|------------|
| <b>Revision Date:</b> | 12/30/2025 |
|-----------------------|------------|

|                                      |            |
|--------------------------------------|------------|
| <b>Date of first report version:</b> | 08/28/2019 |
|--------------------------------------|------------|

**Abbreviations and acronyms:**

|   |                                                                                  |
|---|----------------------------------------------------------------------------------|
| : | US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants |
|---|----------------------------------------------------------------------------------|

|   |                                                              |
|---|--------------------------------------------------------------|
| : | US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A |
|---|--------------------------------------------------------------|



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|                     |                                                                                             |
|---------------------|---------------------------------------------------------------------------------------------|
| 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):                                                           |
| 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



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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 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.

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