



## Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the SS586 Specification for Hazard Communication for Hazardous Chemicals and Dangerous Goods.

|                        |            |                         |            |
|------------------------|------------|-------------------------|------------|
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### SECTION 1: Identification

#### 1.1. Product identifier

Alcohol Skin Antiseptics (2.0% CHG, 70% Isopropyl Alcohol) (tinted-solid)

#### 1.2. Recommended use and restrictions on use

##### Recommended use

Sanitizer

#### 1.3. Supplier's details

**Address:** KCI Medical Asia Pte. Ltd. 10 Ang Mo Kio Street 65 #01-01, Techpoint, Singapore, 569059  
**Telephone:** +65 6577 1266  
**Website:** Solventum.com

#### 1.4. Emergency telephone number

+65 3158 1349; (24/7) +1-703-527-3887; (24/7)

### SECTION 2: Hazard identification

#### 2.1. Classification of the substance or mixture

Flammable Liquid: Category 2.

Serious Eye Damage/Irritation: Category 2.

Specific Target Organ Toxicity (single exposure): Category 3.

#### 2.2. Label elements

##### SIGNAL WORD

DANGER!

##### Symbols

Flame | Exclamation mark |

##### Pictograms



**HAZARD STATEMENTS**

|      |                                     |
|------|-------------------------------------|
| H225 | Highly flammable liquid and vapour. |
| H319 | Causes serious eye irritation.      |
| H336 | May cause drowsiness or dizziness.  |

**PRECAUTIONARY STATEMENTS****Prevention:**

|      |   |
|------|---|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.<br>No smoking. |
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray.   |

**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. |
| P370 + P378        | In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.  |

**2.3. Other hazards**

Repeated exposure may cause skin dryness or cracking.

**SECTION 3: Composition/information on ingredients**

This material is a mixture.

| <b>Ingredient</b>   | <b>CAS Nbr</b> | <b>% by Wt</b> |
|---|----------------|----------------|
| Propan-2-ol   | 67-63-0        | 60 - 90        |
| Water   | 7732-18-5      | 15 - 40        |
| D-gluconic acid, compound with N,N"-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1) | 18472-51-0     | 1 - 5          |

**SECTION 4: First aid measures****4.1. Description of first aid measures****Inhalation**

Remove person to fresh air. If you feel unwell, get medical attention.

**Skin contact**

No need for first aid is anticipated. If signs/symptoms persist, get medical attention.

**Eye contact**

Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. Get medical attention.

**If swallowed**

Rinse mouth. If you feel unwell, get medical attention.

**4.2. Most important symptoms and effects, both acute and delayed**

Central nervous system depression (headache, dizziness, drowsiness, incoordination, nausea, slurred speech, giddiness, and unconsciousness).

**4.3. Indication of any immediate medical attention and special treatment required**

Not applicable.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

### 5.2. Special hazards arising from the substance or mixture

Closed containers exposed to heat from fire may build pressure and explode.

### Hazardous Decomposition or By-Products

| <u>Substance</u> | <u>Condition</u>   |
|------------------|--------------------|
| Carbon monoxide. | During combustion. |
| Carbon dioxide.  | During combustion. |

### 5.3. Special protective actions for fire-fighters

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS.

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

Contain spill. Cover spill area with a fire extinguishing foam that is resistant to polar solvents. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible using non-sparking tools. Place in a metal container approved for transportation by appropriate authorities. Clean up residue with water. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

For industrial/occupational use only. Not for consumer sale or use. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) Wear low static or properly grounded shoes. To minimize the risk of ignition, determine

applicable electrical classifications for the process using this product and select specific local exhaust ventilation equipment to avoid flammable vapor accumulation. Ground/bond container and receiving equipment if there is potential for static electricity accumulation during transfer.

## **7.2. Conditions for safe storage including any incompatibilities**

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store away from heat. Store away from acids. Store away from oxidising agents.

# **SECTION 8: Exposure controls/personal protection**

## **8.1 Control parameters**

### **Occupational exposure limits**

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

| <b>Ingredient</b> | <b>CAS Nbr</b> | <b>Agency</b>  | <b>Limit type</b>  | <b>Additional comments</b>     |
|-------------------|----------------|----------------|--|--------------------------------|
| Propan-2-ol       | 67-63-0        | ACGIH          | TWA:200 ppm;STEL:400 ppm   | A4: Not class. as human carcin |
| Propan-2-ol       | 67-63-0        | Singapore PELs | TWA(8 hours):983 mg/m <sup>3</sup> (400 ppm);STEL(15 minutes):1230 mg/m <sup>3</sup> (500 ppm) |                                |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

Singapore PELs : Singapore. Workplace Safety and Health (Permissible Exposure Levels of Toxic Substances) Order

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

## **8.2. Exposure controls**

### **8.2.1. Engineering controls**

Use explosion-proof ventilation equipment.

### **8.2.2. Personal protective equipment (PPE)**

#### **Eye/face protection**

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

Indirect vented goggles.

#### **Skin/hand protection**

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing.

Gloves made from the following material(s) are recommended: Butyl rubber.

Fluoroelastomer

Nitrile rubber.

#### **Respiratory protection**

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following

respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapours and particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|  |  |
|--|--|
| <b>Physical state</b>                                    | Liquid.  |
| <b>Specific Physical Form:</b>                           | Liquid Impregnated Sponge                                      |
| <b>Color</b>   | Light Red  |
| <b>Odor</b>  | Moderate Alcohol   |
| <b>Odour threshold</b>                                   | <i>No data available.</i>                                      |
| <b>pH</b>  | 5 - 8 Units not available or not applicable. [Details:at 25 C] |
| <b>Melting point/Freezing point</b>                      | <i>No data available.</i>                                      |
| <b>Boiling point/Initial boiling point/Boiling range</b> | 80 - 100 °C  |
| <b>Flash point</b>                                       | 20 °C [Test Method:Open Cup]                                   |
| <b>Evaporation rate</b>                                  | <i>No data available.</i>                                      |
| <b>Flammability</b>                                      | Flammable Liquid: Category 2.                                  |
| <b>Flammable Limits(LEL)</b>                             | 2 % volume   |
| <b>Flammable Limits(UEL)</b>                             | 12 % volume  |
| <b>Vapour pressure</b>                                   | <i>No data available.</i>                                      |
| <b>Relative Vapor Density</b>                            | <i>No data available.</i>                                      |
| <b>Density</b>   | 0.872 g/ml - 0.887 g/ml  |
| <b>Relative density</b>                                  | 0.872 N/A - 0.887 N/A [Ref Std:WATER=1]                        |
| <b>Water solubility</b>                                  | 100 %  |
| <b>Solubility- non-water</b>                             | <i>No data available.</i>                                      |
| <b>Partition coefficient: n-octanol/water</b>            | <i>No data available.</i>                                      |
| <b>Autoignition temperature</b>                          | <i>No data available.</i>                                      |
| <b>Decomposition temperature</b>                         | <i>No data available.</i>                                      |
| <b>Kinematic Viscosity</b>                               | <i>No data available.</i>                                      |
| <b>Volatile organic compounds (VOC)</b>                  | <i>No data available.</i>                                      |
| <b>Percent volatile</b>                                  | <i>No data available.</i>                                      |
| <b>VOC less H2O &amp; exempt solvents</b>                | <i>No data available.</i>                                      |

|                                 |                        |
|---------------------------------|------------------------|
| <b>Particle Characteristics</b> | <i>Not applicable.</i> |
|---------------------------------|------------------------|

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section

### 10.2 Chemical stability

Stable.

### 10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

### 10.4 Conditions to avoid

Heat.

Light.

Sparks and/or flames.

#### 10.5 Incompatible materials

Strong acids.

Strong oxidising agents.

#### 10.6 Hazardous decomposition products

| <u>Substance</u> | <u>Condition</u> |
|------------------|------------------|
| None known.      |                  |

Refer to section 5.2 for hazardous decomposition products during combustion.

## SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labelling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

### 11.1 Information on Toxicological effects

#### Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

##### Inhalation

Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. May cause additional health effects (see below).

##### Skin contact

Contact with the skin during product use is not expected to result in significant irritation. Prolonged or repeated exposure may cause: Dermal Defatting: Signs/symptoms may include localized redness, itching, drying and cracking of skin. Allergic Skin Reaction (non-photo induced) in sensitive people: Signs/symptoms may include redness, swelling, blistering, and itching.

##### Eye contact

Severe eye irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

##### Ingestion

Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea. May cause additional health effects (see below).

#### Additional Health Effects:

##### Single exposure may cause target organ effects:

Central nervous system (CNS) depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

#### Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

#### Acute Toxicity

**Alcohol Skin Antiseptics (2.0% CHG, 70% Isopropyl Alcohol) (tinted-solid)**

| Name  | Route                      | Species | Value  |
|---|----------------------------|---------|--|
| Overall product   | Ingestion                  |         | No data available; calculated ATE >5,000 mg/kg |
| Propan-2-ol   | Dermal                     | Rabbit  | LD50 12,870 mg/kg                              |
| Propan-2-ol   | Inhalation-Vapor (4 hours) | Rat     | LC50 72.6 mg/l                                 |
| Propan-2-ol   | Ingestion                  | Rat     | LD50 4,710 mg/kg                               |
| D-gluconic acid, compound with N,N"-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1) | Dermal                     | Rabbit  | LD50 > 5,000 mg/kg                             |
| D-gluconic acid, compound with N,N"-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1) | Ingestion                  | Rat     | LD50 2,000 mg/kg                               |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name  | Species                 | Value                     |
|---|-------------------------|---------------------------|
| Propan-2-ol   | Multiple animal species | No significant irritation |
| D-gluconic acid, compound with N,N"-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1) | Rabbit                  | No significant irritation |

**Serious Eye Damage/Irritation**

| Name  | Species | Value           |
|---|---------|-----------------|
| Propan-2-ol   | Rabbit  | Severe irritant |
| D-gluconic acid, compound with N,N"-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1) | Rabbit  | Corrosive       |

**Sensitization:****Skin Sensitisation**

| Name  | Species          | Value  |
|---|------------------|--|
| Propan-2-ol   | Guinea pig       | Not classified   |
| D-gluconic acid, compound with N,N"-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1) | Human and animal | Some positive data exist, but the data are not sufficient for classification |

**Respiratory Sensitisation**

For the component/components, either no data are currently available or the data are not sufficient for classification.

**Germ Cell Mutagenicity**

| Name  | Route    | Value         |
|---|----------|---------------|
| Propan-2-ol   | In Vitro | Not mutagenic |
| Propan-2-ol   | In vivo  | Not mutagenic |
| D-gluconic acid, compound with N,N"-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1) | In Vitro | Not mutagenic |
| D-gluconic acid, compound with N,N"-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1) | In vivo  | Not mutagenic |

**Carcinogenicity**

| Name  | Route      | Species                 | Value  |
|---|------------|-------------------------|--|
| Propan-2-ol   | Inhalation | Rat                     | Some positive data exist, but the data are not sufficient for classification |
| D-gluconic acid, compound with N,N"-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1) | Ingestion  | Multiple animal species | Not carcinogenic   |

## Reproductive Toxicity

### Reproductive and/or Developmental Effects

| Name  | Route      | Value                                  | Species | Test result           | Exposure Duration    |
|---|------------|--|---------|-----------------------|----------------------|
| Propan-2-ol   | Ingestion  | Not classified for female reproduction | Rat     | NOAEL 1,000 mg/kg/day | 2 generation         |
| Propan-2-ol   | Ingestion  | Not classified for male reproduction   | Rat     | NOAEL 500 mg/kg/day   | 2 generation         |
| Propan-2-ol   | Ingestion  | Not classified for development         | Rat     | NOAEL 400 mg/kg/day   | during organogenesis |
| Propan-2-ol   | Inhalation | Not classified for development         | Rat     | LOAEL 9 mg/l          | during gestation     |
| D-gluconic acid, compound with N,N"-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1) | Ingestion  | Not classified for development         | Rat     | NOAEL 30 mg/kg/day    | during gestation     |

## Target Organ(s)

### Specific Target Organ Toxicity - single exposure

| Name  | Route      | Target Organ(s)                   | Value  | Species                | Test result         | Exposure Duration      |
|---|------------|-----------------------------------|--|------------------------|---------------------|------------------------|
| Propan-2-ol   | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | Human                  | NOAEL Not available |                        |
| Propan-2-ol   | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Human                  | NOAEL Not available |                        |
| Propan-2-ol   | Inhalation | auditory system                   | Not classified   | Guinea pig             | NOAEL 13.4 mg/l     | 24 hours               |
| Propan-2-ol   | Ingestion  | central nervous system depression | May cause drowsiness or dizziness  | Human                  | NOAEL Not available | poisoning and/or abuse |
| D-gluconic acid, compound with N,N"-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1) | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available |                        |

### Specific Target Organ Toxicity - repeated exposure

| Name  | Route      | Target Organ(s)                              | Value  | Species | Test result          | Exposure Duration |
|---|------------|--|--|---------|----------------------|-------------------|
| Propan-2-ol   | Inhalation | kidney and/or bladder                        | Not classified   | Rat     | NOAEL 12.3 mg/l      | 24 months         |
| Propan-2-ol   | Inhalation | nervous system                               | Not classified   | Rat     | NOAEL 12 mg/l        | 13 weeks          |
| Propan-2-ol   | Ingestion  | kidney and/or bladder                        | Not classified   | Rat     | NOAEL 400 mg/kg/day  | 12 weeks          |
| D-gluconic acid, compound with N,N"-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1) | Ingestion  | liver  | Some positive data exist, but the data are not sufficient for classification | Dog     | NOAEL 0.89 mg/kg/day | 1 years           |
| D-gluconic acid, compound with N,N"-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1) | Ingestion  | immune system                                | Not classified   | Rabbit  | NOAEL 71 mg/kg/day   | 2 years           |
| D-gluconic acid, compound with N,N"-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1) | Ingestion  | hematopoietic system   kidney and/or bladder | Not classified   | Rat     | NOAEL 71 mg/kg/day   | 2 years           |



|          |  |  |  |  |  |  |
|----------|--|--|--|--|--|--|
| ne (2:1) |  |  |  |  |  |  |
|----------|--|--|--|--|--|--|

#### Aspiration Hazard

For the component/components, either no data are currently available or the data are not sufficient for classification.

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

## SECTION 12: Ecological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labelling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

### 12.1. Toxicity

#### Acute aquatic hazard:

GHS Acute 2: Toxic to aquatic life.

#### Chronic aquatic hazard:

GHS Chronic 3: Harmful to aquatic life with long lasting effects.

No product test data available.

| Material   | CAS Nbr    | Organism         | Type         | Exposure | Test endpoint | Test result  |
|--|------------|------------------|--------------|----------|---------------|--------------|
| Propan-2-ol  | 67-63-0    | Bacteria         | Experimental | 16 hours | LOEC          | 1,050 mg/l   |
| Propan-2-ol  | 67-63-0    | Green algae      | Experimental | 72 hours | EC50          | >1,000 mg/l  |
| Propan-2-ol  | 67-63-0    | Invertebrate     | Experimental | 24 hours | LC50          | >10,000 mg/l |
| Propan-2-ol  | 67-63-0    | Medaka           | Experimental | 96 hours | LC50          | >100 mg/l    |
| Propan-2-ol  | 67-63-0    | Water flea       | Experimental | 48 hours | EC50          | >1,000 mg/l  |
| Propan-2-ol  | 67-63-0    | Green algae      | Experimental | 72 hours | NOEC          | 1,000 mg/l   |
| Propan-2-ol  | 67-63-0    | Water flea       | Experimental | 21 days  | NOEC          | 100 mg/l     |
| D-gluconic acid, compound with N,N"-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecane diamidine (2:1) | 18472-51-0 | Activated sludge | Experimental | 3 hours  | EC50          | 25 mg/l      |
| D-gluconic acid, compound with N,N"-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecane diamidine (2:1) | 18472-51-0 | Green algae      | Experimental | 72 hours | ErC50         | 0.081 mg/l   |
| D-gluconic acid, compound with N,N"-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecane diamidine (2:1) | 18472-51-0 | Water flea       | Experimental | 48 hours | EC50          | 0.087 mg/l   |
| D-gluconic acid, compound with N,N"-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecane diamidine (2:1) | 18472-51-0 | Zebra Fish       | Experimental | 96 hours | LC50          | 2.08 mg/l    |

**Alcohol Skin Antiseptics (2.0% CHG, 70% Isopropyl Alcohol) (tinted-solid)**

|  |            |             |              |          |      |            |
|--|------------|-------------|--------------|----------|------|------------|
| 3,12-diimino-2,4,11,13-tetraazatetradecane diamidine (2:1)   |            |             |              |          |      |            |
| D-gluconic acid, compound with N,N"-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecane diamidine (2:1) | 18472-51-0 | Green algae | Experimental | 72 hours | NOEC | 0.007 mg/l |
| D-gluconic acid, compound with N,N"-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecane diamidine (2:1) | 18472-51-0 | Water flea  | Experimental | 21 days  | NOEC | 0.021 mg/l |

**12.2. Persistence and degradability**

| Material   | CAS Nbr    | Test type                   | Duration | Study Type                     | Test result        | Protocol                      |
|--|------------|-----------------------------|----------|--------------------------------|--------------------|-------------------------------|
| Propan-2-ol  | 67-63-0    | Experimental Biodegradation | 14 days  | BOD                            | 86 %BOD/ThOD       | OECD 301C - MITI test (I)     |
| D-gluconic acid, compound with N,N"-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecane diamidine (2:1) | 18472-51-0 | Experimental Biodegradation | 28 days  | Dissolv. Organic Carbon Deplet | 71 %removal of DOC | OECD 301A - DOC Die Away Test |

**12.3 : Bioaccumulative potential**

| Material   | CAS Nbr    | Test type                     | Duration | Study Type | Test result | Protocol                       |
|--|------------|-------------------------------|----------|------------|-------------|--------------------------------|
| Propan-2-ol  | 67-63-0    | Experimental Bioconcentration |          | Log Kow    | 0.05        |                                |
| D-gluconic acid, compound with N,N"-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecane diamidine (2:1) | 18472-51-0 | Experimental Bioconcentration |          | Log Kow    | -1.81       | OECD 107 log Kow shke flsk mtd |

**12.4. Mobility in soil**

Please contact manufacturer for more details

**12.5 Other adverse effects**

No information available.

**SECTION 13: Disposal considerations****13.1. Disposal methods**

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Incinerate in a permitted waste incineration facility. As a disposal alternative, utilize an acceptable permitted waste disposal facility. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

## **SECTION 14: Transport Information**

### **International Regulations**

**UN No.:** None assigned

**UN Proper shipping name:** None assigned

**Transportation Class (IMO):** None assigned

**Transportation Class (IATA):** None assigned

**Other Dangerous Goods Descriptions (IMO):** None assigned

**Other Dangerous Goods Descriptions (IATA):** None assigned

**Packing Group:** None assigned

**Marine pollutant:** None assigned

## **SECTION 15: Regulatory information**

### **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

#### **Global inventory status**

Contact 3M for more information. The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information. The components of this product are in compliance with the new substance notification requirements of CEPA. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory.

#### **This product may contain component(s) that are regulated by the following:**

Workplace Safety and Health Act & Workplace Safety and Health (General Provisions) Regulations: this product is subject to SDS, labelling, PEL and other requirements in the Act/Regulations.

## **SECTION 16: Other information**

**DISCLAIMER:** The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications.

**Solventum Singapore SDSs are available at [Solventum.com](https://www.solventum.com)**