



# SAFETY DATA SHEET

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## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

**Product Name** Clorox Healthcare™ Chlorhexidine Gluconate 4% Solution

### Other means of identification

**Product Code(s)** 82-286, 82-287, 82-288, 82-289, 82-291

### Recommended use of the chemical and restrictions on use

**Recommended Use** Patient preoperative skin preparation, surgical hand scrub, healthcare personnel handwash, general skin and wound cleanser

**Uses advised against** No information available

### Details of the supplier of the safety data sheet

**Supplier Name** Clorox Professional Products Company  
**Supplier Address** 1221 Broadway  
Oakland, CA 94612

**Supplier Phone Number** Phone: 1-510-271-7000

### Emergency telephone number

**Emergency Phone Numbers** For Medical Emergencies call: 1-800-446-1014  
For Transportation Emergencies, call Chemtrec: 1-800-424-9300

## 2. HAZARDS IDENTIFICATION


### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

|                                   |            |
|-----------------------------------|------------|
| Skin corrosion/irritation         | Category 2 |
| Serious eye damage/eye irritation | Category 1 |
| Carcinogenicity                   | Category 2 |

### GHS Label elements, including precautionary statements

#### Emergency Overview

|  |  |                                  |
|--|--|----------------------------------|
| <p><b>Signal word</b></p> <p><b>Danger</b></p> <p><b>Hazard Statements</b><br/>         Causes skin irritation<br/>         Causes serious eye damage<br/>         Suspected of causing cancer</p> <div style="text-align: center;">  </div> <p><b>Appearance</b> Clear, slightly yellow-to-colorless</p> | <p><b>Physical State</b> Slightly viscous liquid</p> | <p><b>Odor</b> Faint alcohol</p> |
|--|--|----------------------------------|

### Precautionary Statements - Prevention

Wash hands and face thoroughly after handling.  
 Wear protective gloves and eye protection such as safety glasses.  
 Obtain special instructions before use.  
 Do not handle until all safety precautions have been read and understood.

### Precautionary Statements - Response

If on skin: Wash with plenty of water.  
 Specific treatment (see supplemental first aid instructions on this label).  
 If skin irritation occurs: Get medical advice.  
 Take off contaminated clothing and wash it before reuse.  
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 Immediately call a poison center or doctor.  
 If exposed or concerned: Get medical advice.

### Precautionary Statements - Storage

Store locked up.

### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal in accordance with all applicable federal, state, and local regulations.

### Hazards not otherwise classified (HNOC)

Not applicable

### Unknown Toxicity

None of the mixture consists of ingredient(s) of unknown toxicity

**Other information**

No information available.

**Interactions with Other Chemicals**

No information available.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

| Chemical Name             | CAS No      | Weight-%     | Trade Secret |
|---------------------------|-------------|--------------|--------------|
| Chlorhexidine digluconate | 18472-51-0  | 1 - 5        | *            |
| Isopropyl alcohol         | 67-63-0     | 1 - 5        | *            |
| Proprietary component     | Proprietary | Trade Secret | *            |

\*The exact percentage (concentration) of composition has been withheld as a trade secret

**4. FIRST AID MEASURES****First aid measures****General Advice**

Show this safety data sheet to the doctor in attendance.

**Eye Contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.

**Skin Contact**

Wash off immediately with soap and plenty of water. Get medical attention if irritation develops and persists.

**Inhalation**

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, (trained personnel should) give oxygen. If symptoms persist, call a doctor.

**Ingestion**

Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a doctor.

**Self-protection of the first aider**

Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required.

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

**Most Important Symptoms and Effects** Burning of eyes.

**Indication of any immediate medical attention and special treatment needed****Notes to Physician**

Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

Dry chemical. Carbon dioxide (CO2). Alcohol resistant foam.

### Unsuitable extinguishing media

None.

### Specific Hazards Arising from the Chemical

Thermal decomposition may produce toxic fumes of ammonia, hydrogen chloride and oxides of carbon and nitrogen.

### Explosion Data

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

### Protective equipment and precautions for firefighters

Move containers from fire area if you can do it without risk.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal Precautions** Use personal protective equipment as required.

**Other Information** Refer to protective measures listed in Sections 7 and 8.

### Environmental Precautions

**Environmental Precautions** Do not allow product to enter storm drains, lakes, or streams. See Section 12 for ecological Information.

### Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Absorb and containerize. Wash residual down to sanitary sewer. Contact the sanitary treatment facility in advance to assure ability to process washed-down material.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Use personal protection equipment..

### Conditions for safe storage, including any incompatibilities

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition. Store at temperatures below 37°C. Keep in properly labeled containers. Store in accordance with the national and local regulations.

**Incompatible Products** None known..

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**Exposure Guidelines**

| Chemical Name                | ACGIH TLV                     | OSHA PEL                                   | NIOSH IDLH  |
|------------------------------|-------------------------------|--|---|
| Isopropyl alcohol<br>67-63-0 | STEL: 400 ppm<br>TWA: 200 ppm | TWA: 400 ppm<br>TWA: 980 mg/m <sup>3</sup> | IDLH: 2000 ppm 10% LEL<br>TWA: 980 mg/m <sup>3</sup><br>TWA: 400 ppm<br>STEL: 500 ppm<br>STEL: 1225 mg/m <sup>3</sup> |

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits NIOSH IDLH Immediately Dangerous to Life or Health

**Appropriate engineering controls**

**Engineering Measures**                      Showers  
    Eyewash stations  
    Ventilation systems

**Individual protection measures, such as personal protective equipment**

**Eye/Face Protection**                      If splashes are likely to occur: Safety glasses or goggles.

**Skin and Body Protection**                      Wear protective gloves and protective clothing.

**Respiratory Protection**                      If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene Measures**                              Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical and Chemical Properties

|                       |                              |                       |                          |
|-----------------------|------------------------------|-----------------------|--------------------------|
| <b>Physical State</b> | Slightly viscous liquid      | <b>Odor</b>           | Faint alcohol            |
| <b>Appearance</b>     | Clear                        | <b>Odor Threshold</b> | No information available |
| <b>Color</b>          | Slightly yellow-to-colorless |                       |                          |

| Property                                      | Values            | Remarks/ Method |
|---|-------------------|-----------------|
| <b>pH</b>                                     | No data available | None known      |
| <b>Melting / freezing point</b>               | No data available | None known      |
| <b>Boiling point / boiling range</b>          | No data available | None known      |
| <b>Flash Point</b>                            | No data available | None known      |
| <b>Evaporation Rate</b>                       | No data available | None known      |
| <b>Flammability (solid, gas)</b>              | No data available | None known      |
| <b>Flammability Limit in Air</b>              |                   |                 |
| <b>Upper flammability limit</b>               | No data available | None known      |
| <b>Lower flammability limit</b>               | No data available | None known      |
| <b>Vapor pressure</b>                         | No data available | None known      |
| <b>Vapor density</b>                          | No data available | None known      |
| <b>Specific Gravity</b>                       | ~1.06             | None known      |
| <b>Water Solubility</b>                       | Soluble in water  | None known      |
| <b>Solubility in other solvents</b>           | No data available | None known      |
| <b>Partition coefficient: n-octanol/water</b> | No data available | None known      |
| <b>Autoignition temperature</b>               | No data available | None known      |
| <b>Decomposition temperature</b>              | No data available | None known      |
| <b>Kinematic viscosity</b>                    | No data available | None known      |
| <b>Dynamic viscosity</b>                      | No data available | None known      |
| <b>Explosive properties</b>                   | No data available |                 |
| <b>Oxidizing Properties</b>                   | No data available |                 |

### Other Information

|                                   |                   |
|-----------------------------------|-------------------|
| <b>Softening Point</b>            | No data available |
| <b>VOC Content (%)</b>            | No data available |
| <b>Particle Size</b>              | No data available |
| <b>Particle Size Distribution</b> | No data available |

## 10. STABILITY AND REACTIVITY

### Reactivity

No data available.

### Chemical stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### Conditions to avoid

Storage at temperatures exceeding 40°C for long periods of time.

### Incompatible materials

None known.

### Hazardous Decomposition Products

Thermal decomposition may produce toxic fumes of ammonia, hydrogen chloride and oxides of carbon and nitrogen.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | May cause irritation of respiratory tract.  |
| <b>Eye Contact</b>  | Corrosive. May cause severe damage to eyes.   |
| <b>Skin Contact</b> | Prolonged contact may cause redness and irritation.   |
| <b>Ingestion</b>    | Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. |

#### Component Information

| Chemical Name                          | Oral LD50      | Dermal LD50        | Inhalation LC50      |
|--|----------------|--------------------|----------------------|
| Chlorhexidine digluconate<br>1842-51-0 | 2 g/kg (Rat)   | -                  | -                    |
| Isopropyl alcohol<br>67-63-0           | 4.4 g/kg (Rat) | 12.8 g/kg (Rabbit) | 16000 ppm (Rat, 8 h) |

### Information on toxicological effects

**Symptoms** May cause redness and tearing or burns to eyes. May cause redness to skin.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Sensitization** No information available.

**Mutagenic Effects** No information available.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical Name                | ACGIH | IARC     | NTP   | OSHA |
|------------------------------|-------|----------|-------|------|
| Isopropyl alcohol<br>67-63-0 |       | Group 3  |       | X    |
| Proprietary component        |       | Group 2B | Known |      |

**IARC (International Agency for Research on Cancer)**

Group 3 - Not Classifiable as to Carcinogenicity in Humans

Group 2B - Possibly Carcinogenic to Humans

**OSHA (Occupational Safety and Health Administration of the US Department of Labor)**

X - Present

**NTP: (National Toxicology Program)**

Known - Known Carcinogen

**Reproductive Toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Chronic Toxicity** Contains a known or suspected carcinogen.

**Target Organ Effects** Eyes. Respiratory system. Skin. Blood. Kidney. Liver. Spleen. Systemic Toxicity.

**Aspiration Hazard** No information available.

**Numerical measures of toxicity Product Information**

The following values are calculated based on chapter 3.1 of the GHS document

No information available.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

The environmental impact of this product has not been fully investigated.

| Chemical Name                | Toxicity to Algae  | Toxicity to Fish   | Toxicity to Microorganisms | Daphnia Magna (Water Flea) |
|------------------------------|--|--|----------------------------|----------------------------|
| Isopropyl alcohol<br>67-63-0 | 96h EC50: > 1000 mg/L<br>(Desmodesmus subspicatus)<br>72h EC50: > 1000 mg/L<br>(Desmodesmus subspicatus) | 96h LC50: > 1400000 µg/L<br>(Lepomis macrochirus) 96h<br>LC50: = 11130 mg/L<br>(Pimephales promelas) 96h<br>LC50: = 9640 mg/L<br>(Pimephales promelas) |                            | 48h EC50: = 13299 mg/L     |
| Proprietary component        |  | 96h LC50: = 3.6 mg/L<br>(Brachydanio rerio)  | EC50 = 6000 mg/L 16 h      | 24h EC50: = 4.2 mg/L       |

**Persistence and Degradability**

No information available.

**Bioaccumulation**

| Chemical Name                | Log Pow |
|------------------------------|---------|
| Isopropyl alcohol<br>67-63-0 | 0.05    |

**Other adverse effects**

No information available.

## 13. DISPOSAL CONSIDERATIONS

**Disposal methods**

Dispose of in accordance with all applicable federal, state, and local regulations.

**Contaminated Packaging**

Dispose of in accordance with all applicable federal, state, and local regulations.



**14. TRANSPORT INFORMATION**

|                 |               |
|-----------------|---------------|
| <u>DOT</u>      | Not regulated |
| <u>TDG</u>      | Not regulated |
| <u>ICAO</u>     | Not regulated |
| <u>IATA</u>     | Not regulated |
| <u>IMDG/IMO</u> | Not regulated |

**15. REGULATORY INFORMATION**

**Chemical Inventories**

|      |  |
|------|--|
| TSCA | Complies   |
| DSL  | All components are listed either on the DSL or NDSL. |

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**US Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains the following chemical that is subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| Chemical Name               | CAS No  | Weight-% | SARA 313 - Threshold Values % |
|-----------------------------|---------|----------|-------------------------------|
| Isopropyl alcohol - 67-63-0 | 67-63-0 | 1 - 5    | 1.0                           |

**SARA 311/312 Hazard Categories**

|                                   |     |
|-----------------------------------|-----|
| Acute Health Hazard               | Yes |
| Chronic Health Hazard             | Yes |
| Fire Hazard                       | No  |
| Sudden release of pressure hazard | No  |
| Reactive Hazard                   | No  |

**CWA (Clean Water Act)**

This product does not contain any substances that are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**US State Regulations**

**California Proposition 65**

This product contains the following Proposition 65 chemical:

| Chemical Name         | California Proposition 65 |
|-----------------------|---------------------------|
| Proprietary component | Carcinogen                |

**U.S. State Right-to-Know Regulations**

| Chemical Name                | New Jersey | Massachusetts | Pennsylvania | Rhode Island | Illinois |
|------------------------------|------------|---------------|--------------|--------------|----------|
| Isopropyl alcohol<br>67-63-0 | X          | X             | X            | X            |          |

**International Regulations**

**Canada**

**WHMIS Hazard Class**

B2 - Flammable liquid

D2B - Toxic materials



**16. OTHER INFORMATION**

|             |                         |                       |                          |   |
|-------------|-------------------------|-----------------------|--------------------------|---|
| <b>NFPA</b> | <b>Health Hazards</b> 3 | <b>Flammability</b> 0 | <b>Instability</b> 0     | <b>Physical and Chemical Hazards - Personal Protection</b><br>B |
| <b>HMIS</b> | <b>Health Hazards</b> 3 | <b>Flammability</b> 0 | <b>Physical Hazard</b> 0 |   |

**Prepared By** Product Stewardship  
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1-800-572-6501

**Revision Date** New

**Revision Note** New

**Reference** INT0037/010272

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of Safety Data Sheet**