



# SAFETY DATA SHEET

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Revision Number 3

NGHS - English

## 1. IDENTIFICATION

### Product identifier

**Product Name** Clorox Healthcare® Citrace® Hospital Disinfectant & Deodorizer

### Other means of identification

**EPA Pesticide registration number** 67619-29

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

**Recommended Use** Disinfectant (Aerosol)  
**Uses advised against** No information available

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

**Supplier Identification** The Clorox Company

**Address** 1221 Broadway  
Oakland  
CA  
94612  
US

**Telephone** 1-510-271-7000

### Emergency telephone number

**Emergency Telephone Number** For Medical Emergencies call: 1-800-446-1014. Transportation Emergencies, call Chemtrec: 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

### Classification

|                      |               |
|----------------------|---------------|
| Flammable aerosols   | Category 2    |
| Gases under pressure | Liquefied Gas |

**Appearance** Clear Colorless

**Physical state** Liquid spray

**Odor** Orange Citrus

### GHS Label elements, including precautionary statements

#### **Warning**

#### **Hazard statements**

Flammable Aerosol  
Contains gas under pressure; may explode if heated



**Precautionary Statements - Prevention**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
Do not spray on an open flame or other ignition source  
Pressurized container: Do not pierce or burn, even after use

**Precautionary Statements - Storage**

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F  
Store in well-ventilated place

**Other information**

Not applicable.

**Unknown acute toxicity**

No information available

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Mixture**

| Chemical Name  | CAS-No    | Weight-% |
|----------------|-----------|----------|
| Ethanol        | 64-17-5   | 50-75    |
| Propane        | 74-98-6   | 1-5      |
| D-Limonene     | 5989-27-5 | 0.5 - 2  |
| Sodium nitrite | 7632-00-0 | <0.2     |

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

### 4. FIRST AID MEASURES

**First aid measures**

**Inhalation**

Remove to fresh air.

**Eye contact**

Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if irritation develops and persists.

**Skin contact**

Wash skin with soap and water. Get medical attention if irritation develops and persists.

**Ingestion**

Clean mouth with water and drink afterwards plenty of water.

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

**Symptoms**

Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians**

Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

|   |   |
|---|---|
| <b>Suitable Extinguishing Media</b>                   | Dry chemical, CO <sub>2</sub> , alcohol-resistant foam or water spray.  |
| <b>Large Fire</b>                                     | CAUTION: Use of water spray when fighting fire may be inefficient.  |
| <b>Unsuitable extinguishing media</b>                 | Do not scatter spilled material with high pressure water streams.   |
| <b>Specific hazards arising from the chemical</b>     | Cylinders may rupture under extreme heat.   |
| <b>Hazardous Combustion Products</b>                  | Carbon oxides.  |
| <b>Explosion Data</b>                                 |   |
| <b>Sensitivity to Mechanical Impact</b>               | None.   |
| <b>Sensitivity to Static Discharge</b>                | None.   |
| <b>Special protective equipment for fire-fighters</b> | Cylinders may rupture under extreme heat. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. |

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

|                             |  |
|-----------------------------|--|
| <b>Personal precautions</b> | Ensure adequate ventilation.   |
| <b>Other Information</b>    | Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). |

### Environmental precautions

|                                  |   |
|----------------------------------|---|
| <b>Environmental precautions</b> | See Section 12 for additional Ecological Information. |
|----------------------------------|---|

### Methods and material for containment and cleaning up

|  |  |
|--|--|
| <b>Methods for containment</b>         | Prevent further leakage or spillage if safe to do so.                                |
| <b>Prevention of secondary hazards</b> | Clean contaminated objects and areas thoroughly observing environmental regulations. |

## 7. HANDLING AND STORAGE

### Precautions for safe handling

|                                |  |
|--------------------------------|--|
| <b>Advice on safe handling</b> | Handle in accordance with good industrial hygiene and safety practice. |
|--------------------------------|--|

### Conditions for safe storage, including any incompatibilities

|                              |   |
|------------------------------|---|
| <b>Storage Conditions</b>    | Keep cool. Protect from sunlight. Keep container tightly closed in a dry and well-ventilated place. |
| <b>Incompatible products</b> | None known based on information supplied.   |

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Limits

| Chemical Name               | ACGIH TLV      | OSHA PEL                                 | NIOSH IDLH   |
|-----------------------------|----------------|--|--|
| Ethanol<br>64-17-5          | STEL: 1000 ppm | TWA: 1000 ppmTWA: 1900 mg/m <sup>3</sup> | IDLH: 3300 ppm 10% LELTWA: 1000 ppmTWA: 1900 mg/m <sup>3</sup> |
| Propane<br>74-98-6          | TWA: 1000 ppm  | TWA: 1000 ppmTWA: 1800 mg/m <sup>3</sup> | IDLH: 2100 ppmTWA: 1000 ppmTWA: 1800 mg/m <sup>3</sup>         |
| D-Limonene<br>5989-27-5     | None           | None                                     | None   |
| Sodium nitrite<br>7632-00-0 | None           | None                                     | None   |

### Appropriate engineering controls

**Engineering controls** Ventilation systems.

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

**Eye/face protection** No special protective equipment required.

**Skin and body protection** No special protective equipment required.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical and Chemical Properties

|                       |                          |
|-----------------------|--------------------------|
| <b>Physical state</b> | Liquid spray             |
| <b>Appearance</b>     | Clear Colorless          |
| <b>Odor</b>           | Orange Citrus            |
| <b>Color</b>          | No information available |
| <b>Odor Threshold</b> | No information available |

| <u>Property</u>                               | <u>Values</u>      | <u>Remarks</u> | <u>Method</u> |
|---|--------------------|----------------|---------------|
| <b>pH</b>                                     | 6.5 - 8.5 (liquid) | 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>                            | 19                 | 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  |                |               |
| <b>Lower flammability limit</b>               | No data available  |                |               |
| <b>Vapor pressure</b>                         | No data available  | None known     |               |
| <b>Vapor density</b>                          | No data available  | None known     |               |
| <b>Relative density</b>                       | ~0.85 (liquid)     | None known     |               |
| <b>Water Solubility</b>                       | Soluble in water   | None known     |               |
| <b>Solubility(ies)</b>                        | No data available  | None known     |               |
| <b>Partition coefficient: n-octanol/water</b> | 0                  | None known     |               |

|                           |                   |            |
|---------------------------|-------------------|------------|
| Autoignition temperature  | No data available | None known |
| Decomposition temperature | No data available | None known |
| Kinematic viscosity       | No data available | None known |
| Dynamic viscosity         | No data available | None known |

**Other Information**

|                            |                          |
|----------------------------|--------------------------|
| Explosive properties       | No information available |
| Oxidizing properties       | No information available |
| Softening Point            | No information available |
| Molecular Weight           | No information available |
| VOC Content (%)            | No information available |
| Liquid Density             | No information available |
| Bulk Density               | No information available |
| Particle Size              | No information available |
| Particle Size Distribution | No information available |

## 10. STABILITY AND REACTIVITY

|                                    |  |
|------------------------------------|--|
| Reactivity                         | No information available.  |
| Chemical stability                 | Stable under normal conditions.  |
| Possibility of Hazardous Reactions | None under normal processing.  |
| Conditions to avoid                | Extremes of temperature and direct sunlight. Keep away from open flames, hot surfaces and sources of ignition. |
| Incompatible materials             | Strong oxidizing agents. Inorganic acids. Halogens.  |
| Hazardous Decomposition Products   | None known based on information supplied.  |

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

**Product Information**

|              |  |
|--------------|--|
| Inhalation   | Inhalation of vapors in high concentration may cause irritation of respiratory system. |
| Eye contact  | No known effects under normal use conditions.  |
| Skin contact | No known effects under normal use conditions.  |
| Ingestion    | No known effect.   |

**Information on toxicological effects**

|          |                           |
|----------|---------------------------|
| Symptoms | No information available. |
|----------|---------------------------|

**Numerical measures of toxicity**

**Acute Toxicity**

|                        |                          |
|------------------------|--------------------------|
| Unknown acute toxicity | No information available |
|------------------------|--------------------------|

## Component Information

| Chemical Name  | LD50 Oral      | LD50 Dermal      | Inhalation LC50      |
|----------------|----------------|------------------|----------------------|
| Ethanol        | —              | —                | 124.7 mg/L (Rat) 4 h |
| Propane        | —              | —                | 658 mg/L (Rat) 4 h   |
| D-Limonene     | 4.4 g/kg (Rat) | >5 g/kg (Rabbit) | —                    |
| Sodium nitrite | 85 mg/kg (Rat) | -                | >5.5 mg/L (Rat)      |

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

|  |   |
|--|---|
| <b>Skin corrosion/irritation</b>         | No information available.   |
| <b>Serious eye damage/eye irritation</b> | No information available.   |
| <b>Respiratory or skin sensitization</b> | No information available.   |
| <b>Germ cell mutagenicity</b>            | No information available.   |
| <b>Carcinogenicity</b>                   | Based on available data, the classification criteria are not met. |
| <b>Reproductive toxicity</b>             | No information available.   |
| <b>STOT - single exposure</b>            | No information available.   |
| <b>STOT - repeated exposure</b>          | No information available.   |
| <b>Aspiration hazard</b>                 | 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)   |
|---------------|-------------------|---|---|--|
| Ethanol       |                   | LC50: 12.0 - 16.0 mL/L (96 h static)<br>Oncorhynchus mykiss LC50: 13400 - 15100 mg/L (96 h flow-through)<br>Pimephales promelas LC50: > 100 mg/L (96 h static)<br>Pimephales promelas | EC50 = 34634 mg/L 30 min<br>EC50 = 35470 mg/L 5 min | LC50: 9268 - 14221 mg/L (48 h )<br>Daphnia magna EC50: 10800 mg/L (24 h )<br>Daphnia magna EC50: 2 mg/L (48 h Static)<br>Daphnia magna |

**Persistence and Degradability** No information available.

## Bioaccumulation

| Chemical Name  | Log Pow |
|----------------|---------|
| Propane        | 2.3     |
| Sodium nitrite | -3.7    |

**Mobility** No information available.

**Other adverse effects** No information available.

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

|  |   |
|--|---|
| <b>Waste from residues/unused products</b> | Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. |
| <b>Contaminated packaging</b>              | Do not reuse empty containers.  |
| <b>US EPA Waste Number</b>                 | D001  |
| <b>California Waste Codes</b>              | 232   |

This product may contain one or more substances that are listed with the State of California as a hazardous waste.

### 14. TRANSPORT INFORMATION

DOT Limited Quantity

#### TDG

|                             |                       |
|-----------------------------|-----------------------|
| <b>UN Number</b>            | UN1950                |
| <b>Proper Shipping Name</b> | AEROSOLS              |
| <b>Hazard Class</b>         | 2.1                   |
| <b>Packing Group</b>        | None                  |
| <b>Description</b>          | UN1950, AEROSOLS, 2.1 |

#### ICAO

|                             |                       |
|-----------------------------|-----------------------|
| <b>UN-No.</b>               | UN1950                |
| <b>Proper Shipping Name</b> | AEROSOLS              |
| <b>Hazard Class</b>         | 2.1                   |
| <b>Description</b>          | UN1950, AEROSOLS, 2.1 |

#### IATA

|                             |                                  |
|-----------------------------|----------------------------------|
| <b>UN Number</b>            | UN1950                           |
| <b>Proper Shipping Name</b> | AEROSOLS, FLAMMABLE              |
| <b>Hazard Class</b>         | 2.1                              |
| <b>Packing Group</b>        | None                             |
| <b>Description</b>          | UN1950, AEROSOLS, FLAMMABLE, 2.1 |

#### IMDG

|                             |                       |
|-----------------------------|-----------------------|
| <b>UN Number</b>            | UN1950                |
| <b>Proper Shipping Name</b> | AEROSOLS              |
| <b>Hazard Class</b>         | 2                     |
| <b>Packing Group</b>        | None                  |
| <b>EmS-No.</b>              | 5F                    |
| <b>Description</b>          | UN1950, AEROSOLS, 2.1 |

## 15. REGULATORY INFORMATION

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

#### International Regulations

Ozone-depleting substances (ODS) Not applicable

Persistent Organic Pollutants Not applicable

Export Notification requirements Not applicable

#### International Inventories

|               |   |
|---------------|---|
| TSCA          | Contact supplier for inventory compliance status  |
| DSL/NDSL      | Contact supplier for inventory compliance status  |
| EINECS/ELINCS | Contact supplier for inventory compliance status. |
| ENCS          | Contact supplier for inventory compliance status. |
| KECL          | Contact supplier for inventory compliance status. |
| PICCS         | Contact supplier for inventory compliance status. |
| AICS          | Contact supplier for inventory compliance status. |

#### Legend

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

#### US Federal Regulations

##### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

##### SARA 311/312 Hazard Categories

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

##### CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

| Chemical Name               | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|-----------------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Sodium nitrite<br>7632-00-0 | 100 lb.                     |                        |                           | X                          |



**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

| Chemical Name               | Hazardous Substances RQs | Extremely Hazardous Substances RQs | RQ                                       |
|-----------------------------|--------------------------|------------------------------------|--|
| Sodium nitrite<br>7632-00-0 | 100 lb                   |                                    | RQ 100 lb final RQRQ 45.4 kg<br>final RQ |

**US State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

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

| Chemical Name               | New Jersey | Massachusetts | Pennsylvania | Rhode Island | Illinois |
|-----------------------------|------------|---------------|--------------|--------------|----------|
| Propane<br>74-98-6          | X          | X             | X            |              |          |
| D-Limonene<br>5989-27-5     |            |               |              |              | X        |
| Sodium nitrite<br>7632-00-0 | X          | X             | X            | X            |          |

**EPA Statement**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**EPA Pesticide label**

CAUTION: Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

**16. OTHER INFORMATION**

|                    |                         |                       |                           |   |
|--------------------|-------------------------|-----------------------|---------------------------|---|
| <b><u>NFPA</u></b> | <b>Health hazards</b> 0 | <b>Flammability</b> 3 | <b>Instability</b> 0      | <b>Physical and Chemical Properties</b> - |
| <b><u>HMIS</u></b> | <b>Health hazards</b> 0 | <b>Flammability</b> 3 | <b>Physical hazards</b> 0 | <b>Personal Protection</b> A              |

**Prepared By** Product Stewardship  
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**Revision Date** 28-Mar-2019

**Revision Note** No information available

**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**