



# SAFETY DATA SHEET

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Revision Number 2

NGHS - English

## 1. IDENTIFICATION

### Product identifier

**Product Name** Clorox Commercial Solutions® Clorox® 4 in One Disinfectant and Sanitizer

### 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, CO2, 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.
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### 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.
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### 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 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>	IDLH: 3300 ppm 10% LEL TWA: 1900 mg/m <sup>3</sup>
Propane 74-98-6	TWA: 1000 ppm	TWA: 1000 ppm TWA: 1800 mg/m <sup>3</sup>	IDLH: 2100 ppm TWA: 1000 ppm TWA: 1800 mg/m <sup>3</sup>
D-Limonene 5989-27-5	None	None	None
Sodium nitrite 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

**Physical state** Liquid spray  
**Appearance** Clear Colorless  
**Odor** Orange Citrus  
**Color** No information available  
**Odor Threshold** 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.
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**Numerical measures of toxicity**

**Acute Toxicity**

Unknown acute toxicity	No information available
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**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) Oncorhynchus mykiss LC50: 13400 - 15100 mg/L (96 h flow-through) Pimephales promelas LC50: > 100 mg/L (96 h static) Pimephales promelas	EC50 = 34634 mg/L 30 min EC50 = 35470 mg/L 5 min	LC50: 9268 - 14221 mg/L (48 h ) Daphnia magna EC50: 10800 mg/L (24 h ) Daphnia magna EC50: 2 mg/L (48 h Static) 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 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 7632-00-0	100 lb		RQ 100 lb final RQRQ 45.4 kg 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 74-98-6	X	X	X		
D-Limonene 5989-27-5					X
Sodium nitrite 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  
23 British American Blvd.  
Latham, NY 12110  
1-800-572-6501

**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**