

SAFETY DATA SHEET

Issuing Date January 5, 2015

Revision Date New

Revision Number 0

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

Product identifier

Product Name

Clorox Commercial Solutions® Clorox® 4 in One Disinfectant & Sanitizer

Other means of identification

EPA Registration Number

67619-29

Recommended use of the chemical and restrictions on use

Recommended Use

Aerosol disinfectant, sanitizer, and deodorizer

Uses advised against

No information available

Details of the supplier of the safety data sheet

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

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 mixture is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

| Eye damage/irritation | Category 2B |
|-----------------------|-------------|
| Carcinogenicity | Category 1B |
| Flammable aerosols | Category 2 |

GHS Label elements, including precautionary statements

Emergency Overview

Signal word

Danger

Hazard statements

Causes eye irritation May cause cancer Flammable aerosol





Appearance Clear, colorless

Physical State Thin liquid

Odor Orange, citrus

Precautionary Statements - Prevention

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Wear eye protection such as safety glasses.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Pressurized container: Do not pierce or burn, even after use.

Do not spray on an open flame or other ignition source.

Wash hands and any exposed skin thoroughly after handling.

Precautionary Statements - Response

If exposed or concerned: Get medical attention.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention.

Precautionary Statements - Storage

Store locked up.

Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Precautionary Statements - Disposal

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

Hazards not otherwise classified (HNOC)

Not applicable

Unknown Toxicity

None

Other information

Toxic to aquatic life with long lasting effects.

Interactions with Other Chemicals

Can react with strong oxidizers, inorganic acids, and halogens.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS-No | Weight % | Trade Secret |
|----------------|-----------|----------|--------------|
| 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

General Advice

Show this safety data sheet to the doctor in attendance.

Eye Contact

Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control

center or doctor for treatment advice.

Skin Contact

Wash skin with soap and water. If irritation persists, call a doctor.

inhalation

Move to fresh air. If breathing is affected, call a doctor.

Ingestion

Drink a glassful of water. Call a doctor or poison control center.

Most important symptoms and effects, both acute and delayed

Most Important Symptoms/Effects

May cause moderate eye irritation. Inhalation of high concentrations may cause irritation of the respiratory tract, headaches, dizziness, nausea, vomiting, and malaise.

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), foam, or water spray.

Unsuitable Extinguishing Media

Do not extinguish a leaking gas fire unless leak can be stopped.

Specific Hazards Arising from the Chemical

Containers may rupture at temperatures greater than 50 C.

NFPA Aerosol Classification: Level 2

Explosion Data

Sensitivity to Mechanical Impact

None

Sensitivity to Static Discharge

Yes.

Protective Equipment and Precautions for Firefighters

Containers may rupture at temperatures greater than 50 °C. Cool exposed containers to avoid potential bursting or venting. Use equipment or shielding to protect personnel from bursting containers. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions

Avoid contact with eyes, skin, and clothing. Wear respiratory protection for large spills.

Other Information

Eliminate all potential sources of ignition, and ventilate area. Take precautionary measures

against static discharge. Refer to protective measures listed in Sections 7 and 8.

Environmental precautions

Environmental Precautions

Prevent entry into waterways, sewers, basements, and confined areas.

Methods and material for containment and cleaning up

Methods for Containment

Prevent further leakage or spillage if safe to do so. Keep out of drains, sewers, ditches, and

waterways.

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 eyes, skin, and clothing. Avoid breathing vapors. Contents under pressure. Do not puncture or incinerate containers. Keep away from heat, sparks, open flames, and hot surfaces. Do not eat, drink, or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Storage

Store in accordance with NFPA 30B for Level 2 aerosols. Do not store at temperatures above 50°C. Keep containers in a dry, cool, and well-ventilated place. Keep away from heat and ignition sources. Protect from sunlight.

Incompatible Products

Strong oxidizers, inorganic acids, and halogens.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

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

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

Wear safety glasses.

Skin and Body Protection

Wear rubber or neoprene gloves if there is the potential for repeated or prolonged skin contact.

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

Do not eat, drink, or smoke when using this product. Wash hands with soap and water after

use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical State Thin liquid **Appearance** Clear

Color Colorless

Odor **Odor Threshold** Orange, citrus No information available

Property pН Melting/freezing point **Boiling Point/Range** Flash Point

Flame extension **Evaporation rate** Flammability (solid, gas)

Flammability Limits in Air **Upper flammability limit**

Lower flammability limit Vapor pressure Vapor density **Specific Gravity Water Solubility** Solubility in other solvents Partition coefficient: n-octanol/water No data available **Autoignition temperature** Decomposition temperature Kinematic viscosity

Dynamic viscosity **Explosive Properties Oxidizing Properties** Other Information

Values Remarks/ Method 6.5 - 8.5 (liquid) None known No data available None known No data available None known 19°C (liquid, closed cup) None known 18 inches (46 cm) without flashback None known No data available No data available None known

No data available None known No data available None known No data available None known No data available None known ~0.85 (liquid) None known Soluble in water. None known No data available None known None known No data available None known Not explosive

Softening Point No data available VOC Content (%) No data available Particle Size No data available Particle Size Distribution No data available

10. STABILITY AND REACTIVITY

Reactivity

Can react with strong oxidizers, inorganic acids, and halogens

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Do not store at temperatures above 50 C. Keep away from heat, sparks, open flames, and hot surfaces.

No data available

Incompatible materials

Strong oxidizers, inorganic acids, and halogens

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation

Inhalation of high concentrations may cause irritation of the respiratory tract, headaches,

dizziness, nausea, vomiting, and malaise.

Eye Contact

May cause moderate eye irritation.

Skin Contact

Prolonged contact may cause slight irritation.

Ingestion

Ingestion may cause central nervous system depression, gastrointestinal irritation, nausea.

vomiting, and diarrhea.

Component Information

| Chemical Name | emical Name LD50 Oral LD50 Dermal | | LC50 Inhalation |
|-----------------------------|-----------------------------------|------------------|----------------------|
| Ethanol 64-17-5 | • | • | 124.7 mg/L (Rat) 4 h |
| Propane 74-98-6 | - | - | 658 mg/L (Rat) 4 h |
| d-Limonene 5989-27-5 | 4.4 g/kg (Rat) | >5 g/kg (Rabbit) | |
| Sodium nitrite 7632-00-0 | 85 mg/kg (Rat) | - | 5.5 mg/L (Rat) 4 h |

Information on toxicological effects

Symptoms

May cause redness and tearing of the eyes.

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. Ethanol has been shown to be carcinogenic in long-term studies only when consumed as

alcoholic beverage.

| Chemical Name | ACGIH | IARC | NTP | OSHA |
|-----------------------------|-------|----------|-------|------|
| Ethanol 64-17-5 | А3 | Group 1 | Known | х |
| d-Limonene 5989-27-5 | | Group 3 | | х |
| Sodium nitrite 7632-00-0 | | Group 2A | | × |

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (international Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans Group 2A - Probably Carcinogenic to Humans Group 3 - Not Classifiable as to Carcinogenicity in Humans

NTP (National Toxicology Program)

Known - Known Carcinogen

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

X - Present

Reproductive Toxicity

No information available

STOT - single exposure

No information available.

11. TOXICOLOGICAL INFORMATION

STOT - repeated exposure Chronic Toxicity

No information available.

Contains a known or suspected carcinogen. Ethanol has been shown to be carcinogenic in long-term studies only when consumed as alcoholic beverage. Sodium nitrite produced stomach tumors in female mice when fed exaggerated doses. Contains a known or suspected reproductive toxin. Ethanol has been shown to be a reproductive toxin only when consumed as an alcoholic beverage. May cause adverse effects on the bone marrow and blood-forming system. May cause adverse liver effects. Repeated abuse can have

long-term health effects.

Target Organ Effects

Eyes, blood, central nervous system (CNS), liver, reproductive system, respiratory system.

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

ATEmix (oral) 63.6 g/kg

ATEmix (inhalation-gas)

10,425,000

ATEmix (inhalation-dust/mist)

188 mg/L

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic life with long lasting effects.

Persistence and Degradability

No information available.

Bioaccumulation

| Chemical Name | Log Pow |
|-----------------------------|---------|
| Ethanol 64-17-5 | -0.32 |
| Propane 74-98-6 | 2.3 |
| Sodium nitrite 7632-00-0 | -3.7 |

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

DOT

Limited quantity.

TDG

UN-No

UN1950

Proper Shipping Name

AEROSOLS

Hazard Class

2.1

Description

UN1950, AEROSOLS, 2.1

ICAO

UN-No

UN1950

Proper Shipping Name

AEROSOLS

Hazard Class
Description

UN1950, AEROSOLS, 2.1

<u>IATA</u>

UN-No

UN1950

Proper Shipping Name

AEROSOLS, FLAMMABLE

Hazard Class

2 1

Description

UN1950, AEROSOLS, FLAMMABLE, 2.1

IMDG/IMO

UN-No

UN1950

Proper Shipping Name

AEROSOLS

Hazard Class

2.1

EMs No.

5F

Description

UN1950, AEROSOLS, 2.1

15. REGULATORY INFORMATION

Chemical Inventories

TSCA

All components of this product are either on the TSCA 8(b) Inventory or otherwise exempt from

listina.

DSL/NDSL

All components are 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

U.S. 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 % |
|-----------------------------|-----------|----------|--------------------------------|
| Sodium nitrite 7632-00-0 | 7632-00-0 | 0.1 - 1 | 1.0 |

SARA 311/312 Hazard Categories

Acute Health Hazard
Yes
Chronic Health Hazard
Yes
Fire Hazard
Yes
Sudden Release of Pressure Hazard
Yes
Reactive Hazard
No

Clean Water Act

This product contains the following substance that is regulated as a pollutant 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. | | | х |

CERCLA

This material, as supplied, contain the following substance regulated as a hazardous substance 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.

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

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:

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.

U.S. State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals. Ethyl alcohol is only a considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage.

| Chemical Name | California Proposition 65 |
|-----------------|---------------------------|
| Ethanol 64-17-5 | Developmental |

U.S. State Right-to-Know Regulations

| Chemical Name | New Jersey | Massachusetts | Pennsylvania | Rhode Island | Illinois |
|----------------------------------|------------|---------------|--------------|--------------|----------|
| Ethanol 64-17-5 | | х | | | |
| Dipropylene glycol 25265-71-8 | | | Х | | |
| Propane 74-98-6 | х | х | X | | |
| d-Limonene 5989-27-5 | | | | | х |
| Sodium nitrite 7632-00-0 | × | × | х | х | |

International Regulations

Canada

WHMIS Hazard Class

D2A Very toxic Materials

A Compressed gases B5 Flammable aerosol







16. OTHER INFORMATION

NFPA

Health Hazard 1

Flammability 3

Instability 0

Physical and Chemical

Hazards -

HMIS

Health Hazard 1*

Flammability 3

Physical Hazard 0

Personal Protection A

Prepared By

*Indicates a chronic health hazard

Product Stewardship 23 British American Blvd.

Latham, NY 12110 1-800-572-6501

1-0

January 5, 2015

Revision Date

Preparation/Revision Date

New

Revision Note

New

Reference

CLX184832-001/184832.001/1118256-B

General 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