

# SAFETY DATA SHEET

Issuing Date January 5, 2015	Revision Date New	Revision Number 0
1. IDENTIFICATION OF TH	E SUBSTANCE/PREPARATION AND OF THE COMPANY	UNDERTAKING
Product identifier		
Product Name	Clorox Commercial Solutions® Clorox® 4 in One Disinfectant & Sa	initizer
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	
<b>Supplier Address</b> Clorox Professional Products Compan 1221 Broadway Oakland, CA 94612	У	
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 eve 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 effec	ts, 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 (CO<sub>2</sub>), 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  $50^{\circ}$ 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

HandlingHandle in accordance with good industrial hygiene and safety practice. Avoid contact with<br/>eyes, skin, and clothing. Avoid breathing vapors. Contents under pressure. Do not<br/>puncture or incinerate containers. Keep away from heat, sparks, open flames, and hot<br/>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 <sup>3</sup>	IDLH: 3300 ppm 10% LEL TWA: 1000 ppm 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

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.

Orange, citrus

No information available

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### **Physical and Chemical Properties Physical State** Thin liquid Appearance Clear Color Colorless Property Values pН Melting/freezing point **Boiling Point/Range Flash Point** Flame extension **Evaporation rate** Flammability (solid, gas)

Flammability Limits in Air	
Upper flammability limit	No data available
Lower flammability limit	No data available
Vapor pressure	No data available
Vapor density	No data available
Specific Gravity	~0.85 (liquid)
Water Solubility	Soluble in water.
Solubility in other solvents	No data available
Partition coefficient: n-octanol/water	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
Kinematic viscosity	No data available
Dynamic viscosity	No data available
Explosive Properties	Not explosive
Oxidizing Properties	No data available

# **Other Information**

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

Values 6.5 - 8.5 (liquid) No data available No data available 19°C (liquid, closed cup) 18 inches (46 cm) without flashback No data available No data available

# Odor Threshold Remarks/ Method

Odor

None known None known None known None known None known

None known None known None known None known None known None known None known None known None known None known

# **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.

# 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	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	A3	Group 1	Known	Х
d-Limonene 5989-27-5		Group 3		Х
Sodium nitrite 7632-00-0		Group 2A		Х

ACGIH (American Conference of Governmental Industrial Hygienists)

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)

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X - Present
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Reproductive Toxicity

No information available

STOT - single exposure

No information available.

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

# **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.
<u>TDG</u> UN-No Proper Shipping Name Hazard Class Description	UN1950 AEROSOLS 2.1 UN1950, AEROSOLS, 2.1
ICAO UN-No Proper Shipping Name Hazard Class Description	UN1950 AEROSOLS 2.1 UN1950, AEROSOLS, 2.1
IATA UN-No Proper Shipping Name Hazard Class Description	UN1950 AEROSOLS, FLAMMABLE 2.1 UN1950, AEROSOLS, FLAMMABLE, 2.1
IMDG/IMO UN-No Proper Shipping Name Hazard Class EMs No. Description	UN1950 AEROSOLS 2.1 5F 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 listing. All components are on the DSL or NDSL.

# DSL/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	х		
d-Limonene 5989-27-5					Х
Sodium nitrite 7632-00-0	Х	Х	Х	Х	

# **International Regulations**

# Canada

WHMIS Hazard ClassD2AVery toxic MaterialsACompressed gasesB5Flammable aerosol



# **16. OTHER INFORMATION**

<u>NFPA</u>	Health Hazard 1	Flammability 3	Instability 0	Physical and Chemical Hazards -
<u>HMIS</u>	Health Hazard 1* *Indicates a	Flammability 3 a chronic health hazard	Physical Hazard 0	Personal Protection A
Prepared By				
Preparation/Revision Da	ate January 5	, 2015		
Revision Date	New			
Revision Note	New			
Reference	CLX18483	32-001/184832.001/11182	56-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**