

# SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING **Product identifier Product Name** Clorox Commercial Solutions® Odor Defense™ Air and Fabric Spray Other means of identification None Synonyms Recommended use of the chemical and restrictions on use Recommended use Laundry and household bleach Uses advised against No information available Details of the supplier of the safety data sheet **Supplier Address** The Clorox Company 1221 Broadway, Oakland, CA 94612 USA Phone: 1-510-271-7000 **Emergency telephone number Emergency Phone Numbers** For Medical Emergencies, call: 1-800-446-1014

Issuing Date June 2, 2015

Revision Date February 8, 2018

**Revision Number** 1

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).

Serious eye damage/eye irritation

### GHS Label elements, including precautionary statements

### Emergency Overview

Warning	
Physical State Liquid	Odor Floral
	Warning Physical State Liquid

### **Precautionary Statements - Prevention**

Wash hands and any exposed skin thoroughly after handling. Wear eye protection/face protection such as safety glasses.

### **Precautionary Statements - Response**

### Eyes

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**

None

Precautionary Statements - Disposal None

Hazards not otherwise classified (HNOC) Not applicable.

Unknown Toxicity Not applicable.

Other information

No information available.

### Interactions with Other Chemicals

No information available.

Category 2A

## **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS-No	Weight %	Trade Secret
Ethanol	64-17-5	5-10	*
N,N-Didecyl-N,N-dimethylammonium bicarbonate	148812-65-1	0.1-1.0	*
N,N-Didecyl-N,N-dimethylammonium carbonate	148788-55-0	0.1-1.0	*

\* 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	Take off contaminated clothing. Rinse skin with plenty of water. If irritation develops, call a doctor.
Inhalation	Move to fresh air. If breathing is affected, call a doctor.
Ingestion	Drink a glassful of water. Call a poison control center or doctor immediately. DO NOT induce vomiting unless told to do so by a poison control center or doctor.
Protection of First-aiders	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wear personal protective clothing (see section 8).
Most important symptoms and effe	cts, both acute and delayed
Most Important Symptoms and Effects	Stinging and irritation of eyes.

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

Notes to Physician Treat symptomatically.

### **5. FIRE-FIGHTING MEASURES**

### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### Unsuitable Extinguishing Media

CAUTION: Use of water spray when fighting fire may be inefficient.

### Specific Hazards Arising from the Chemical

No information available.

### **Explosion Data**

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

### Protective equipment and precautions for firefighters

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. Use personal protective equipment as required.
Other Information	Refer to protective measures listed in Sections 7 and 8.
Environmental precautions	
Environmental Precautions	See Section 12 for ecological Information.
Methods and material for containme	ent 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 and clothing. Do not eat, drink or smoke when using this product. Conditions for safe storage, including any incompatibilities Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Toilet bowl cleaners, rust removers, acids, and ammonia-containing products.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Control parameters**

### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethanol 64-17-5	1000 ppm	1000 ppm	-

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: Wear safety glasses with side shields (or goggles). None required for consumer use.
Skin and Body Protection	None required for consumer use.
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	Remove and wash contaminated clothing before re-use. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

### **Physical and Chemical Properties**

Physical State Appearance Color	Liquid Clear Clear	Odor Odor Threshold	Floral No information available
<u>Property</u>	<u>Values</u>	<b>Remarks/ Method</b>	
рН	6.5	None known	
Melting/freezing point	No data available	None known	
Boiling point / boiling range	No data available	None known	
Flash Point	Not flammable	None known	
Evaporation rate	No data available	None known	
Flammability (solid, gas)	No data available	None known	
Flammability Limits in Air			
Upper flammability limit	No data available	None known	
Lower flammability limit	No data available	None known	
Vapor pressure	No data available	None known	
Vapor density	No data available	None known	
Specific Gravity	1.0	None known	
Water Solubility	Soluble in water	None known	
Solubility in other solvents	No data available	None known	

### Partition coefficient: n-octanol/waterNo data available Autoignition temperature No data available Decomposition temperature No data available Kinematic viscosity Dynamic viscosity **Explosive Properties Oxidizing Properties**

**Other Information** Softening Point VOC Content (%) **Particle Size Particle Size Distribution**  No data available No data available Not explosive No data available

No data available No data available No data available No data available None known None known None known None known None known

### **10. STABILITY AND REACTIVITY**

### Reactivity

No information available.

### Chemical stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### **Conditions to avoid**

None known based on information supplied.

### Incompatible materials

Toilet bowl cleaners, rust removers, acids, and ammonia-containing products.

### **Hazardous Decomposition Products**

None known based on information supplied.

### **11. TOXICOLOGICAL INFORMATION**

### Information on likely routes of exposure

### **Product Information**

Inhalation	Exposure to vapor or mist may irritate respiratory tract.
Eye Contact	May cause eye irritation.
Skin Contact	Prolonged contact may cause irritation.
Ingestion	Ingestion may cause irritation to mucous membranes and gastrointestinal tract, nausea, vomiting, and diarrhea.

### **Component Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ethanol	7.060 ma/ka Bot	No data available	20000 ppm Rat
64-17-5	7,060 mg/kg Rat	NO Uata avaliable	20000 ppm Rat

N,N-Didecyl-N,N- dimethylammonium carbonate 148788-55-0	245 mg/kg	245 mg/kg Rat No data available		No data available		
Information on toxicologic	al effects					
Symptoms	May cause re	dness and tearing	of the eyes.			
Delayed and immediate ef	fects as well as chronic	effects from shore	t and long-term exposure	<u>e</u>		
Sensitization	No informatio	n available.				
Mutagenic Effects	No informatio	n available.				
Carcinogenicity	<b>icity</b> The table below indicates whether each agency has listed any ingredient as a carcinogen.					
Chemical Name	ACGIH	IARC	NTP	OSHA		
Ethanol 64-17-5	-	-	-	-		
N,N-Didecyl-N,N- dimethylammonium	_					
carbonate 148788-55-0						
148788-55-0 IARC (International Agen	cy for Research on Cancel as to Carcinogenicity in Hum					
148788-55-0 IARC (International Agen		ans				
148788-55-0 IARC (International Agen Group 3 - Not Classifiable a	as to Carcinogenicity in Hum	ans n available.				
148788-55-0 IARC (International Agen Group 3 - Not Classifiable of Reproductive Toxicity	as to Carcinogenicity in Hum No informatio No informatio No informatio Carcinogenic	ans n available. n available. n available. potential is unknov	/n. gastrointestinal tract (GI).			

### Numerical measures of toxicity - Product Information

No data available

### **12. ECOLOGICAL INFORMATION**

### **Ecotoxicity**

Very toxic to aquatic life with long lasting effects.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Toxicity to Daphnia Magna (Water Flea)
N,N-Didecyl-N,N- dimethylammonium carbonate 148788-55-0	Cell multiplication inhibition test EC50 Species: Lemna minor (duckweed) Dose: 0.10 mg/l	Acute toxicity LC50 Species: Lepomis macrochirus (Bluegill sunfish) Concentration: 0.28 mg/l Exposure time: 96 h	Respiration inhibition EC50 Species: activated sludge Dose: 51.00 mg/l Exposure time: 3 h	Immobilization EC50 Species: Daphnia magna (Water flea) Concentration: 0.06 mg/l Exposure time: 48 h

### Persistence and Degradability

No information available.

### **Bioaccumulation**

No information available.

### 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

Do not reuse empty containers. Dispose of in accordance with all applicable federal, state, and local regulations.

### 14. TRANSPORT INFORMATION

DOT	NOT REGULATED
TDG	NOT REGULATED
ICAO	NOT REGULATED
IATA	NOT REGULATED
IMDG/IMO	NOT REGULATED

### **15. REGULATORY INFORMATION**

### Chemical Inventories

TSCA	All components of this product are either on the TSCA 8(b) Inventory or otherwise exempt
	from listing.
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 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	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

### **Clean Water Act**

This product does not contain substances which 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 a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

### **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
Ethanol	X	X	Y	_	-
64-17-5	~	~	Λ	-	

### International Regulations

Canada WHMIS Hazard Class D2B - Toxic materials



### **16. OTHER INFORMATION**

<u>NFPA</u>	Health Hazard 2	Flammability 0	Instability 0	Physical and Chemical Hazards -
<u>HMIS</u>	Health Hazard 2	Flammability 0	Physical Hazard 0	Personal Protection B
Prepared I	Ву	Product Stewardship 23 British American Blvd Latham, NY 12110 1-800-572-6501	l.	
Revision D	Date	February 8, 2018		

Revision Note

Removed skin irritation category 3.

Not applicable

Reference

### 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