# THE CLOROX COMPANY | Suing Date | January 5, 2015

# **SAFETY DATA SHEET**

L30966

Revision Date New

Revision Number (

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

Product identifier

**Product Name** 

Clorox Commercial Solutions® Clorox® Germicidal Bleach<sub>1</sub>

Other means of identification

**EPA Registration Number** 

5813-100-67619

Recommended use of the chemical and restrictions on use

Recommended use

Institutional hard surface disinfecting and sanitizing bleach

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

Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1

### GHS Label elements, including precautionary statements

### **Emergency Overview**

### Signal word

Danger

### Hazard Statements

Causes severe skin burns and eye damage Causes serious eye damage



Appearance Clear, pale yellow

Physical State Thin liquid

Odor Bleach

### Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling.

Wear protective gloves, protective clothing, face protection, and eye protection such as safety glasses.

### Precautionary Statements - Response

Immediately call a poison center or doctor.

If swallowed: Rinse mouth. Do NOT induce vomiting.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

Wash contaminated clothing before reuse.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

Specific treatment (see supplemental first aid instructions on this label).

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### Precautionary Statements - Storage

Store locked up.

# Precautionary Statements - Disposal

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

### Hazards not otherwise classified (HNOC)

Although not expected, heart conditions or chronic respiratory problems such as asthma, chronic bronchitis, or obstructive lung disease may be aggravated by exposure to high concentrations of vapor or mist.

Product contains a strong oxidizer. Always flush drains before and after use.

# **Unknown Toxicity**

Not applicable.

### Other information

Very toxic to aquatic life with long lasting effects.

# **Interactions with Other Chemicals**

Reacts with other household chemicals such as toilet bowl cleaners, rust removers, acids, or products containing ammonia to produce hazardous irritating gases, such as chlorine and other chlorinated compounds.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	Trade Secret	
Sodium hypochlorite	7681-52-9	5 ~ 10	*	

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

# 4. FIRST AID MEASURES

### First aid measures

General Advice Call a poison control center or doctor immediately for treatment 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 Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20

minutes. Call a poison control center or doctor for treatment advice.

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

Ingestion Have person sip a glassful of water if able to swallow. Do not induce vomiting unless told

to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. Call a poison control center or doctor immediately for treatment

advice.

Protection of First-aiders Avoid contact with skin, eyes, and clothing. Use personal protective equipment as

required. Wear personal protective clothing (see section 8).

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

Most Important Symptoms and

Burning of eyes and skin.

**Effects** 

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

Notes to Physician Treat symptomatically. Probable mucosal damage may contraindicate the use of gastric

lavage.

### 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

This product causes burns to eyes, skin, and mucous membranes. Thermal decomposition can release sodium chlorate and irritating gases and vapors.

### **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. Ensure adequate ventilation. Use personal

> protective equipment as required. For spills of multiple products, responders should evaluate the MSDSs of the products for incompatibility with sodium hypochlorite. Breathing protection should be worn in enclosed and/or poorly-ventilated areas until hazard assessment

is complete.

Other Information Refer to protective measures listed in Sections 7 and 8.

**Environmental precautions** 

**Environmental Precautions** This product is toxic to fish, aquatic invertebrates, oysters, and shrimp. Do not allow

product to enter storm drains, lakes, or streams. See Section 12 for ecological

Information.

# Methods and material for containment 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 Store away from children. Reclose cap tightly after each use. Store this product upright

in a cool, dry area, away from direct sunlight and heat to avoid deterioration. Do not

contaminate food or feed by storage of this product.

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

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Control parameters**

## **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	
Sodium hypochlorite 7681-52-9	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 St

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) or face

shield.

Skin and Body Protection Wear rubber or neoprene gloves and protective clothing such as long-sleeved shirt.

Respiratory Protection If 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 Handle in accordance with good industrial hygiene and safety practice. Wash hands after

direct contact. Do not wear product-contaminated clothing for prolonged periods.

Remove and wash contaminated clothing before re-use. Do not eat, drink, or smoke when

using this product.

Bleach

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Odor

None known

### Physical and Chemical Properties

Physical State Thin liquid Appearance Clear

Color Pale yellow Odor Threshold No information available

Property<br/>pHValues<br/>~12Remarks/ Method<br/>None knownMelting/freezing pointNo data availableNone knownBoiling point / boiling rangeNo data availableNone knownFlash PointNot flammableNone known

No data available

No data available

Evaporation rate Flammability (solid, gas)

Flammability Limits in Air
Upper flammability limit
Lower flammability limit
No data available
Vapor pressure
Vapor density
Specific Gravity
Water Solubility
No data available
~1.1
Soluble

Solubility in other solvents
Partition coefficient: n-octanol/waterNo data available
Autoignition temperature
No data available
Decomposition temperature
No data available
No data available
No data available
No data available
Pynamic viscosity
No data available
No data available
No data available

Explosive Properties Not explosive No data available

Other Information

Softening Point

VOC Content (%)

Particle Size

Particle Size Distribution

No data available
No data available
No data available

# 10. STABILITY AND REACTIVITY

### Reactivity

Reacts with other household chemicals such as toilet bowl cleaners, rust removers, acids, or products containing ammonia to produce hazardous irritating gases, such as chlorine and other chlorinated compounds.

### **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 products containing ammonia.

### **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 and cause coughing. Inhalation of

high concentrations may cause pulmonary edema.

Eye Contact Corrosive. May cause severe damage to eyes.

Skin Contact May cause severe irritation to skin. Prolonged contact may cause burns to skin.

ingestion Ingestion may cause burns to gastrointestinal tract and respiratory tract, nausea, vomiting,

and diarrhea.

### **Component Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium hypochlorite 7681-52-9	8200 mg/kg (Rat)	>10000 mg/kg (Rabbit)	-

### Information on toxicological effects

Symptoms

May cause redness and tearing of the eyes. May cause burns to eyes. May cause

redness or burns to skin. Inhalation may cause coughing.

# 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.

Chemical Name	ACGIH	IARC	NTP	OSHA
Sodium hypochlorite 7681-52-9	-	Group 3	-	-

IARC (International Agency for Research on Cancer) Group 3 - Not Classifiable as to Carcinogenicity in Humans

Reproductive Toxicity

No information available.

STOT - single exposure

No information available.

STOT - repeated exposure

No information available.

Chronic Toxicity

Carcinogenic potential is unknown.

**Target Organ Effects** 

Respiratory system, eyes, skin, gastrointestinal tract (GI),

**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)

54 g/kg

ATEmix (inhalation-dust/mist)

58 mg/L

# 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

Very toxic to aquatic life with long lasting effects.

This product is toxic to fish, aquatic invertebrates, oysters, and shrimp. Do not allow product to enter storm drains, lakes, or streams.

### 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. Do not contaminate food or feed by disposal of this product.

### 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

UN-No UN3082

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Hazard Class 9
Packing Group III

Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SODIUM

HYPOCHLORITE), 9, III, MARINE POLLUTANT

<u>ICAO</u>

UN-No UN3082

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Hazard Class 9
Packing Group III

Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SODIUM

HYPOCHLORITE), 9, III

**IATA** 

UN-No UN3082

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Hazard Class 9
Packing Group II

Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SODIUM

HYPOCHLORITE), 9, III

IMDG/IMO

UN-No UN3082

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Hazard Class 9
Packing Group III
EmS No. F-A, S-F

Marine Pollutant Product is a marine pollutant according to the criteria set by IMDG/IMO

Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, ŁIQUID, N.O.S. (SODIUM

HYPOCHLORITE), 9, III, MARINE POLLUTANT

# 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 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 hypochlorite 7681-52-9	100 lb			х

# **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 hypochlorite 7681-52-9	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:

**DANGER: CORROSIVE.** Causes irreversible eye damage and skin burns. Harmful if swallowed. Do not get in eyes, on skin, or on clothing. Wear protective eyewear and rubber gloves when handling this product. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the restroom. Avoid breathing vapors and use only in a well-ventilated area.

# **US State Regulations**

# California Proposition 65

This product does not contain any Proposition 65 chemicals.

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

Γ	Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
ſ	Sodium hypochlorite 7681-52-9	· ×	X	Х	Х	-
ſ	Sodium chlorate 7775-09-9	×	x	х		

### International Regulations

# Canada WHMIS Hazard Class

E - Corrosive material



16.0			

NFPA Health Hazard 3 Flammability 0 Instability 0 Physical and Chemical Hazards -

HMIS Health Hazard 3 Flammability 0 Physical Hazard 0 Personal Protection B

Prepared By Product Stewardship

23 British American Blvd. Latham, NY 12110 1-800-572-6501

Revision Date New

Revision Note New

Reference 1081722/166081.094

### 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**