

Issuing Date 02-Aug-2016

Revision Date 02-Aug-2016

Revision Number 1

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

**Product identifier**

**Product Name** Clorox® Cleaning Bleach with the Scent of Lemon Fresh Pine-Sol®

**Other means of identification**

**Synonyms** None

**Recommended use of the chemical and restrictions on use**

**Recommended Use** Bleach

**Uses advised against** No information available

**Details of the supplier of the safety data sheet**

**Supplier Name** The Clorox Company

**Supplier Address** 1221 Broadway  
Oakland  
CA  
94612  
US

**Supplier Phone Number** Phone:510-271-7000

**Emergency telephone number**

**Company Emergency Phone Number** For Medical Emergencies call: (800) 446-1014

Transportation Emergencies, call Chemtrec: (800) 424-9300

**Emergency Telephone Number** 1-800-446-1014

## 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

Category 2A

**GHS Label elements, including precautionary statements**

**Emergency Overview**

**Signal word** Warning

**Hazard Statements**

Causes serious eye irritation



**Appearance** Clear, pale yellow

**Physical state** Liquid

**Odor** Lemon

**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling

Wear eye/face protection

**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  
Immediately call a POISON CENTER or doctor/physician

**Precautionary Statements - Storage**

None

**Precautionary Statements - Disposal**

None

**Hazards not otherwise classified (HNOC)**

Not applicable

**Unknown Toxicity**

0.06 % of the mixture consists of ingredient(s) of unknown toxicity

**Other information**

Very toxic to aquatic life with long lasting effects

**Interactions with Other Chemicals**

No information available.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name       | CAS No    | Weight-% | Trade Secret |
|---------------------|-----------|----------|--------------|
| Sodium hypochlorite | 7681-52-9 | 1-5      | *            |
| Sodium hydroxide    | 1310-73-2 | 0.1 - 1  | *            |

\*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. Keep eye wide open while rinsing. Do not rub affected area. Seek immediate medical attention/advice. Remove contact lenses, if present and easy to do. Continue rinsing.

**Skin contact**

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.

**Inhalation**

Remove to fresh air. If breathing is difficult, (trained personnel should) give oxygen. Call a physician or Poison Control Center immediately.

**Ingestion**

Drink 1 or 2 glasses of water. Do not induce vomiting without medical advice. Call a physician or Poison Control Center immediately.

**Self-protection of the first aider**

Avoid contact with skin, eyes or 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 Effects**

Burning sensation. Irritating.

**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 skin, eyes or 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 additional 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** Pick up and transfer to properly labeled containers.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or 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.

**Incompatible Products** Acids. Bases. Oxidizing agent. Ammonia.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**Exposure Guidelines** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

| Chemical Name                    | ACGIH TLV                    | OSHA PEL                 | NIOSH IDLH  |
|----------------------------------|------------------------------|--------------------------|---|
| Sodium hypochlorite<br>7681-52-9 | None                         | None                     | None  |
| Sodium hydroxide<br>1310-73-2    | Ceiling: 2 mg/m <sup>3</sup> | TWA: 2 mg/m <sup>3</sup> | IDLH: 10 mg/m <sup>3</sup> Ceiling: 2 mg/m <sup>3</sup> |

**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.

**Skin and body protection** Rubber gloves. Neoprene gloves.

**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

**Hygiene Measures** provided in accordance with current local regulations.  
Take off contaminated clothing and wash before reuse. 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

|                       |                          |                       |                          |
|-----------------------|--------------------------|-----------------------|--------------------------|
| <b>Physical state</b> | Liquid                   | <b>Odor</b>           | Lemon                    |
| <b>Appearance</b>     | Clear, pale yellow       | <b>Odor Threshold</b> | No information available |
| <b>Color</b>          | No information available |                       |                          |

| <u>Property</u>                               | <u>Values</u>     | <u>Remarks</u> | <u>Method</u> |
|---|-------------------|----------------|---------------|
| <b>pH</b>                                     | ~12.5             | 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>                            | Not flammable     | 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>Specific Gravity</b>                       | ~1.05             | None known     |               |
| <b>Water Solubility</b>                       | Soluble in water  | None known     |               |
| <b>Solubility in other solvents</b>           | No data available | None known     |               |
| <b>Partition coefficient: n-octanol/water</b> | No data available | None known     |               |
| <b>Autoignition temperature</b>               | No data available | None known     |               |
| <b>Decomposition temperature</b>              | No data available | None known     |               |
| <b>Kinematic viscosity</b>                    | No data available | None known     |               |
| <b>Dynamic viscosity</b>                      | No data available | None known     |               |
| <b>Explosive properties</b>                   | No data available |                |               |
| <b>Oxidizing properties</b>                   | No data available |                |               |

### Other Information

|                                   |                   |
|-----------------------------------|-------------------|
| <b>Softening Point</b>            | No data available |
| <b>VOC Content (%)</b>            | No data available |
| <b>Particle Size</b>              | No data available |
| <b>Particle Size Distribution</b> | No data available |

## 10. STABILITY AND REACTIVITY

### Reactivity

No data 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

Acids. Bases. Oxidizing agent. Ammonia.

### Hazardous Decomposition Products

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | May cause irritation of respiratory tract.  |
| <b>Eye contact</b>  | May cause slight irritation.  |
| <b>Skin contact</b> | Prolonged contact may cause redness and irritation.   |
| <b>Ingestion</b>    | Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. |

#### Component Information

| Chemical Name                    | Oral LD50            | Dermal LD50           | Inhalation LC50 |
|----------------------------------|----------------------|-----------------------|-----------------|
| Sodium hypochlorite<br>7681-52-9 | = 8200 mg/kg ( Rat ) | >10000 mg/kg (Rabbit) | –               |
| Sodium hydroxide<br>1310-73-2    | –                    | 1350 mg/kg (Rabbit)   | –               |

### 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.

| Chemical Name                    | ACGIH | IARC    | NTP | OSHA |
|----------------------------------|-------|---------|-----|------|
| Sodium hypochlorite<br>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 (inhalation-dust/mist)**  
 117.20 mg/L ATEmix (4 hr)

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Very toxic to aquatic life with long lasting effects.

### Persistence and Degradability

No information available.

### Bioaccumulation

No information available

### Other adverse effects

No information available.

## 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods**

**Disposal methods** Dispose of in accordance with federal, state and local regulations.  
**Contaminated Packaging** Do not reuse empty containers. Dispose of in accordance with federal, state and local regulations.

| Chemical Name                    | California Hazardous Waste |
|----------------------------------|----------------------------|
| Sodium hypochlorite<br>7681-52-9 | Toxic Ignitable Reactive   |

**14. TRANSPORT INFORMATION**

**DOT** NOT REGULATED  
**TDG** NOT REGULATED  
**MEX** NOT REGULATED  
**ICAO** NOT REGULATED  
**IATA** NOT REGULATED  
**IMDG/IMO** NOT REGULATED  
**RID** NOT REGULATED  
**ADR** NOT REGULATED  
**ADN** NOT REGULATED

**15. REGULATORY INFORMATION**

**International Inventories**

TSCA All components are listed on the TSCA Inventory  
 DSL All components are listed either 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

**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               | Yes |
| Chronic Health Hazard             | No  |
| Fire Hazard                       | No  |
| Sudden release of pressure hazard | No  |
| 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 hypochlorite<br>7681-52-9 | 100 lb                      |                        |                           | X                          |

|                               |         |  |  |   |
|-------------------------------|---------|--|--|---|
| Sodium hydroxide<br>1310-73-2 | 1000 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 hypochlorite<br>7681-52-9 | 100 lb                   | -                                  | RQ 100 lb final RQRQ 45.4 kg final RQ |
| Sodium hydroxide<br>1310-73-2    | 1000 lb                  | -                                  | RQ 1000 lb final RQRQ 454 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 |
|----------------------------------|------------|---------------|--------------|--------------|----------|
| Sodium hypochlorite<br>7681-52-9 | X          | X             | X            | X            | -        |
| Sodium hydroxide<br>1310-73-2    | X          | X             | X            | X            |          |

**International Regulations**

**Canada**

**WHMIS Hazard Class**

D2B - Toxic materials



**16. OTHER INFORMATION**

|             |                         |                       |                          |  |
|-------------|-------------------------|-----------------------|--------------------------|--|
| <b>NFPA</b> | <b>Health Hazards 2</b> | <b>Flammability 0</b> | <b>Instability 0</b>     | <b>Physical and Chemical Hazards - Personal Protection B</b> |
| <b>HMIS</b> | <b>Health Hazards 2</b> | <b>Flammability 0</b> | <b>Physical Hazard 0</b> |  |

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**Issuing Date** 02-Aug-2016  
**Revision Date** 02-Aug-2016  
**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**