COVID-19 Cleaning & Disinfecting Services

WE CAN HELP

As Coronavirus continues to spread, having the right plan in place can make all the difference. Our experienced and highly trained professionals at Thermal Solutions can help your organization minimize the risk to your employees and customers. We offer the following services:

- Hard Surface Cleaning & Sanitizing
- Points of Contact (door knobs, bathroom fixtures, phones, light fixtures, handrails, elevators, coffee stations, water fountains, break rooms, shared workstations, etc...)
- Routine Environmental Cleaning
- HEPA Filtered Air Scrubber Units
- Construction of Sterile Containment Areas
- Hard Barrier Wall Erection for Infectious Areas

If you believe that your facility has been exposed or if you want to keep your business clean and sanitary during these uncertain times, please contact us for an evaluation.

CONTACT INFO: 740.886.2861

Dan Sizemore, Environmental Manager - dsizemore@thermalsolutionsinc.com
Matt Skidmore, Safety Manager - mskidmore@struct-scaffold.com
Bryan Newman, ICRA Specialist - bnewman@thermalsolutionsinc.com

www.thermalsolutionsinc.com
**Cleaning and disinfection procedure**

**Surfaces**

- If surfaces are dirty, they should be cleaned using a detergent or soap and water prior to disinfection.
- For disinfection, diluted household bleach solutions, alcohol solutions with at least 70% alcohol, and most common EPA-registered household disinfectants should be effective.
  - Diluted household bleach solutions can be used if appropriate for the surface. Follow manufacturer’s instructions for application and proper ventilation. Check to ensure the product is not past its expiration date. Never mix household bleach with ammonia or any other cleanser. Unexpired household bleach will be effective against coronaviruses when properly diluted.
- Prepare a bleach solution by mixing:
  - 5 tablespoons (1/3rd cup) bleach per gallon of water or
  - 4 teaspoons bleach per quart of water
  - Products with EPA-approved emerging viral pathogens are expected to be effective against COVID-19 based on data for harder to kill viruses. Follow the manufacturer’s instructions for all cleaning and disinfection products (e.g., concentration, application method and contact time, etc.).
  - For soft (porous) surfaces such as carpeted floor, rugs, and drapes, remove visible contamination if present and clean with appropriate cleaners indicated for use on these surfaces.
  - After cleaning: If the items can be laundered, launder items in accordance with the manufacturer’s instructions using the warmest appropriate water setting for the items and then dry items completely.
  - Otherwise, use products with the EPA-approved emerging viral pathogens that are suitable for porous surfaces.

**Linens, Clothing, and Other Items That Go in the Laundry**

- Do not shake dirty laundry; this minimizes the possibility of dispersing virus through the air.
• Wash items as appropriate in accordance with the manufacturer’s instructions. If possible, launder items using the warmest appropriate water setting for the items and dry items completely. Dirty laundry that has been in contact with an ill person can be washed with other people’s items.
• Clean and disinfect hampers or other carts for transporting laundry according to guidance above for hard or soft surfaces.

**Personal Protective Equipment (PPE) and Hand Hygiene:**

• **Cleaning staff should wear disposable gloves and suits for all tasks in the cleaning process, including handling trash.**
  o Gloves and suits should be compatible with the disinfectant products being used.
  o Full face PAPR type respirators will be used to protect cleaning staff from respiratory and splash hazards
  o Gloves and gowns should be removed carefully to avoid contamination of the wearer and the surrounding area. Be sure to **clean hands** after removing gloves.
• Gloves should be removed after cleaning a room or area occupied by ill persons. Clean hands immediately after gloves are removed.
• Cleaning staff should immediately report breaches in PPE (e.g., tear in gloves) or any potential exposures to their supervisor.
• **Cleaning staff and others should clean hands often,** including immediately after removing gloves and after contact with an ill person, by washing hands with soap and water for 20 seconds. If soap and water are not available and hands are not visibly dirty, an alcohol-based hand sanitizer that contains 60%-95% alcohol may be used. However, if hands are visibly dirty, always wash hands with soap and water.
• Follow normal preventive actions while at work and home, including cleaning hands and avoiding touching eyes, nose, or mouth with unwashed hands.
  o Additional key times to clean hands include:
    ▪ After blowing one’s nose, coughing, or sneezing
    ▪ After using the restroom
    ▪ Before eating or preparing food
    ▪ After contact with animals or pets
**Waste Disposal:**

- Any and all cleaning materials and debris are to be placed into double 6 mil poly bags.
- All materials will be sprayed wet inside of bag
- Bags are sealed utilizing the “gooseneck” method
- Bags of waste will be placed in a staging area for 7 days prior to being disposed of in general waste. (According to the CDC, the virus lives for up to 72 hours without a host.)
MATERIAL SAFETY DATA SHEET
MAJESTIC BLEACH 3.0 % WT

SECTION I – PRODUCT IDENTIFICATION

PRODUCT NAME: Majestic Bleach
MANUFACTURER: Champion Packaging
1840 Internationale Parkway
Woodridge, IL 60517
(630) 972-0100

DATE LAST REVISED: January 1, 2004
CAS NUMBER: 7681-52-9
CHEMICAL FORMULA: NaOCL (Solution)
HAZARDOUS INGREDIENTS: Sodium Hypochlorite 3.0% WT
EMERGENCY TELEPHONE NO.: INFOTRAC: 1-800-535-5053

SECTION II – PHYSICAL DATA

APPEARANCE: Clear to Yellow Liquid
ODOR: Pungent, irritating, that of household bleach.
SOLUBILITY: Complete
BOILING POINT: Decomposes prior to boiling
SPECIFIC GRAVITY: 1.048 @ 60° F
pH: 12.75
VAPOR PRESSURE: Approximately that of air
EVAPORATION RATE: Not Applicable

SECTION III – FIRE AND EXPLOSION INFORMATION

FIRE: Not considered to be a fire hazard.
EXPLOSION: Not considered an explosion hazard.
FIRE EXTINGUISHING MEDIA: Use any means suitable for extinguishing surrounding fire.
SPECIAL INFORMATION: Wear fully encapsulated suits with self-contained breathing apparatus (Positive Pressure).

SECTION IV – REACTIVITY DATA
STABILITY: Stable under ordinary conditions of use and storage. Unstable at elevated temperatures.

HAZARDOUS DECOMPOSITION PRODUCTS: Decomposes under various mechanisms. May generate chlorine or oxygen, which can be toxic and explosive, respectively.

HAZARDOUS POLYMERIZATION: This substance does not polymerize.

INCOMPATIBILITIES (Material to Avoid): Reacts vigorously with Amine, Ammonium Acetate, Ammonium Oxalate, Acids and most organics.

SECTION V – LEAK / SPILL DISPOSAL INFORMATION

RELEASES/SPILLS: Move unprotected personnel upwind out of danger.

REPORTABLE QUANTITY (RQ) (CWA/CERCLA): 100 lbs., 454 Kg

DISPOSAL: Dilute with water and flush to local sewer system, if permitted. Solid waste must be disposed of in a permitted waste management facility. Ensure compliance with local, state, and federal regulations.

SECTION VI – HEALTH HAZARD INFORMATION

EXPOSURE/HEALTH EFFECTS:

INHALATION: Respiratory tract irritant.

INGESTION: Can cause corrosion of the mucous membranes.

If swallowed: Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

SKIN CONTACT: Contact with liquid can cause chemical burns. Immediately flush with soap and water.

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.

CHRONIC EXPOSURE: No data found.

CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN: NTP -NO; IARC -NO; OSHA -NO; ACGIH - NO.

SECTION VII – OCCUPATIONAL CONTROL MEASURES

OSHA PERMISSIBLE EXPOSURE LIMIT: Not established.

VENTILATION SYSTEM: Local exhaust.

PERSONAL RESPIRATORS: (NIOSH Approved) Recommended for all personnel working in or about an area of potential exposure.

SKIN PROTECTION: Wear impervious protective clothing including boots, gloves, lab coat, apron, or coveralls to prevent skin contact.

EYE PROTECTION: Use chemical safety goggles that are impervious to product. Contact lenses should not be worn when working with this material. Maintain eye wash fountain and quick-drench facilities in work area.

SECTION VIII – STORAGE AND SPECIAL INFORMATION
Store in cool, dry, ventilated area. Protect against physical damage. Keep separate from incompatibles.

SECTION IX – REGULATORY INFORMATION

Regulated under the Federal Insecticide Fungicide and Rotenticide Act (FIFRA) if any sanitation or disinfection claims are made on label.

NFPA/HMIS RATINGS:

<table>
<thead>
<tr>
<th>Category</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>1</td>
</tr>
<tr>
<td>Flammability</td>
<td>0</td>
</tr>
<tr>
<td>Reactivity</td>
<td>0</td>
</tr>
<tr>
<td>Higher Alkalinity</td>
<td>R - 1.</td>
</tr>
</tbody>
</table>

SARA TITLE III - SEC. 302, 304, 311, 312.

REPORTABLE QUANTITY (RQ) (CWA/CERCLA): 100 lbs.

THE INFORMATION CONTAINED HEREIN IS PROVIDED IN GOOD FAITH AND IS BELIEVED TO BE CORRECT AS OF THE DATE HEREOF; HOWEVER, CHAMPION PACKAGING, INC. MAKES NO REPRESENTATION AS TO THE COMPREHENSIVENESS OR ACCURACY OF THE INFORMATION. IT IS EXPECTED THAT INDIVIDUALS RECEIVING THE INFORMATION WILL EXERCISE THEIR INDEPENDENT JUDGMENT IN DETERMINING ITS APPROPRIATENESS FOR A PARTICULAR PURPOSE. ACCORDINGLY, CHAMPION PACKAGING, INC. WILL NOT BE RESPONSIBLE FOR DAMAGES OF ANY KIND RESULTING FROM THE USE OF OR RELIANCE UPON SUCH INFORMATION. NO REPRESENTATIONS, OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR TO THE PRODUCT TO WHICH THE INFORMATION REFERS.
1: Product and Company Identification

Product identifier

- **Trade name:** Clean Cut Disinfecting Wipes (All Flavors – Lemon & Fresh)

Other means of identification

- **EPA Registration number:** 6836-336

Relevant identified uses of the substance or mixture and uses advised against

- **Recommended use:** Moistened disinfecting wipes
- **Uses advised against:** No information available

Details of the supplier of the safety data sheet

- **Manufacturer/Supplier:** Guy & O’Neill, Inc.
  200 Industrial Drive
  Fredonia, WI 53021
  (262) 692-2469

Emergency telephone number

- **Emergency telephone number:** (262) 692-2469

2: Hazard(s) Identification

Classification

This product is not hazardous as defined by 29 CFR Part 1910.1200 (OSHA).

GHS-US classification

- **Label elements** - None
- **GHS label elements** - None
- **Hazard pictograms (GHS-US)** - None
- **Signal word (GHS-US)** - None
- **Hazard statements (GHS-US)** - None
- **Precautionary statements (GHS-US)** – None

Other Hazards – None

3 Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Name</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Octyl decyl dimethyl ammonium chloride</td>
<td>0.0909%</td>
</tr>
<tr>
<td>Dioctyl dimethyl ammonium chloride</td>
<td>0.0364%</td>
</tr>
<tr>
<td>Didecyl dimethyl ammonium chloride</td>
<td>0.0545%</td>
</tr>
<tr>
<td>Alkyl (c14, 50% c12, 40% c16, 10%) dimethyl benzyl ammonium chloride</td>
<td>0.1212%</td>
</tr>
</tbody>
</table>
Trade name: Clean Cut Disinfecting Wipes

4: First-aid Measures

**Description of first aid measures**
- **First-aid measures general:** Show this safety data sheet to the doctor in attendance.
- **First-aid measures after inhalation:** Supply fresh air; consult doctor in case of complaints.
- **First-aid measures after skin contact:** Generally the product does not irritate the skin.
- **First-aid measures after eye contact:** Rinse opened eye for several minutes under running water.
- **First-aid measures after ingestion:** Give large amounts of water. If symptoms persist consult doctor.

**Information for doctor:**
- **Most important symptoms and effects, both acute and delayed:** Liquid might cause eye irritation.
- **Indication of any immediate medical attention and special treatment needed:** Treat symptomatically.

5: Fire-fighting Measures

**Extinguishing media**
- Suitable extinguishing agents: Use extinguishing measures (water spray, dry powder, or foam) appropriate to the circumstances and surrounding environment.

**Advice for firefighters**
- **Protective equipment:** As with any fire, wear self-contained breathing apparatus and full protective gear.

6: Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures** Not required.
- **Personal Precautions:** Avoid contact with eyes.
- **Environmental precautions:** See Section 12 for additional ecological information.

**Methods and material for containment and cleaning up:**
- **Methods for Containment:** Prevent further leakage or spill if can be safely done.
- **Methods for Cleanup:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

7: Handling and Storage

**Precautions for safe handling**
- **Handling:** Wash thoroughly after handling. As with all chemicals, good industrial hygiene practices should be followed when handling this material. Do not drink, eat or smoke using this product.

**Conditions for safe storage, including any incompatibilities:**
- **Storage:** Keep containers tightly closed in a dry, cool, and well ventilated area.
- **Incompatible Products:** None known.
Trade name: Clean Cut Disinfecting Wipes

**8: Exposure Controls / Personal Protection**

**Control parameters:** No data available

**Exposure controls:** No data available

**Personal protective equipment:**
- **Hand Protection:** No special hand protection necessary
- **Skin and body protection:** No special skin and body protection necessary
- **Respiration protection:** No special respiration protection necessary
- **Thermal hazard protection:** No special thermal protection necessary
- **Other Information:** None

**9: Physical and Chemical Properties**

**Information on basic physical and chemical properties**

- **Physical State:** Clear liquid absorbed into non-woven wipes.
- **Appearance:** Clear liquid absorbed into non-woven wipes.
- **Color:** Colorless liquid – white non-woven wipes.
- **Odor:** Lemon, fresh

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
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<td>Melting Point:</td>
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<tr>
<td>Boiling Point:</td>
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</tr>
<tr>
<td>Flash Point:</td>
<td>No data available</td>
</tr>
<tr>
<td>Evaporation Rate:</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas):</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability Limit in air (Upper Limit):</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability Limit in air (Lower Limit):</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor Pressure:</td>
<td>No data available</td>
</tr>
<tr>
<td>Specific Gravity:</td>
<td>No data available</td>
</tr>
<tr>
<td>Water Solubility:</td>
<td>No data available</td>
</tr>
<tr>
<td>Autoignition Temperature:</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition Temperature:</td>
<td>No data available</td>
</tr>
<tr>
<td>Kinematic Viscosity:</td>
<td>No data available</td>
</tr>
<tr>
<td>Dynamic Viscosity:</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive Properties:</td>
<td>Not Explosive</td>
</tr>
<tr>
<td>Oxidizing Properties:</td>
<td>No data available</td>
</tr>
</tbody>
</table>
10: Stability and Reactivity

- Reactivity: No data available
- Chemical stability: No data available
- Possibility of hazardous reactions: None under normal conditions.
- Conditions to avoid: No further relevant information available.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known.

11: Toxicological Information

Information on toxicological effects

- Inhalation: Exposure to mist or vapor may irritate the respiratory tract.
- Eye Contact: Liquid may cause irritation.
- Skin Contact: Liquid may cause slight irritation.
- Ingestion: Ingestion of liquid may cause slight irritation to gastrointestinal tract or mucous membranes.
- Sensitization: No sensitizing effects known.

12: Ecological Information

- Ecotoxicity: No information available.
- Persistence and Degradability: No information available.
- Bioaccumulative Potential: No information available.
- Other adverse effects: No information available.

13: Disposal Considerations

- Disposal Methods: Any disposal must be in compliance with applicable federal, state and local regulations.
- Contaminated Packaging: Do not reuse empty containers. Dispose in accordance with all federal, state and local regulations.
- Household Settings: Product residues in container may be discarded in trash.
- Empty Packaging: Offer empty container for recycling. If recycling is not available, discard in trash.
Trade name: Clean Cut Disinfecting Wipes

14: Transport Information

- **DOT**: Not Regulated.

- **TDG (Canadian Surface Transport)**: Not Regulated.

- **IATA (Air Transport)**: Not Regulated.

- **IMDG (Marine Transport)**: Not Regulated

15: Regulatory Information

- **TSCA**: All components of this product are currently listed on the EPA TSCA 8(b) inventory or are incidental byproducts.

- **SARA 302**: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

- **SARA 313**: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

- **California Prop 65**: This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

16: Other Information

**General Disclaimer:**

This product is marketed and manufactured for consumer use and should only be used as directed on the product label for the intended purpose. The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of 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
1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name  Clorox® Regular-Bleach

Other means of identification

EPA Registration Number  5813-100

Recommended use of the chemical and restrictions on use

Recommended use  Household disinfecting, sanitizing, and laundry 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

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).

<table>
<thead>
<tr>
<th></th>
<th>Category 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin corrosion/irritation</td>
<td></td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td></td>
</tr>
</tbody>
</table>

GHS Label elements, including precautionary statements

Emergency Overview

<table>
<thead>
<tr>
<th>Signal word</th>
<th>Danger</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazard Statements</td>
<td></td>
</tr>
<tr>
<td>Causes severe skin burns and eye damage</td>
<td></td>
</tr>
<tr>
<td>Causes serious eye damage</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>Trade Secret</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hypochlorite</td>
<td>7681-52-9</td>
<td>5 - 10</td>
<td>*</td>
</tr>
</tbody>
</table>

* 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 Effects**
Burning of eyes and skin.

**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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hypochlorite</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

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) 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.
9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Remarks/Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Thin liquid</td>
<td>Odor</td>
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<tr>
<td>Appearance</td>
<td>Clear</td>
<td>Odor Threshold</td>
</tr>
<tr>
<td>Color</td>
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<tr>
<td>Melting/freezing point</td>
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<td>Boiling point / boiling range</td>
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<td>Flash Point</td>
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<tr>
<td>Evaporation rate</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper flammability limit</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Lower flammability limit</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
<td>None known</td>
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<tr>
<td>Vapor density</td>
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<td>None known</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>~1.1</td>
<td>None known</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Soluble</td>
<td>None known</td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Kinematic viscosity</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Dynamic viscosity</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Explosive Properties</td>
<td>Not explosive</td>
<td>None known</td>
</tr>
<tr>
<td>Oxidizing Properties</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Other Information</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Softening Point</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VOC Content (%)</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Particle Size</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Particle Size Distribution</td>
<td>No data available</td>
<td>None known</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hypochlorite</td>
<td>8200 mg/kg (Rat)</td>
<td>&gt;10000 mg/kg (Rabbit)</td>
<td>-</td>
</tr>
<tr>
<td>7681-52-9</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hypochlorite</td>
<td>-</td>
<td>Group 3</td>
<td>-</td>
<td>-</td>
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<tr>
<td>7681-52-9</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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 restricted.

TDG
Not restricted for road or rail.

ICAO
Not restricted, as per Special Provision A197, Environmentally Hazardous Substance exception.

IATA
Not restricted, as per Special Provision A197, Environmentally Hazardous Substance exception.

IMDG/IMO
Not restricted, as per IMDG Code 2.10.2.7, Marine Pollutant exception.
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)

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CWA - Reportable Quantities</th>
<th>CWA - Toxic Pollutants</th>
<th>CWA - Priority Pollutants</th>
<th>CWA - Hazardous Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hypochlorite</td>
<td>100 lb</td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

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)

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Hazardous Substances RQs</th>
<th>Extremely Hazardous Substances RQs</th>
<th>RQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hypochlorite</td>
<td>100 lb</td>
<td></td>
<td>RQ 100 lb final RQ</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
<th>Rhode Island</th>
<th>Illinois</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hypochlorite</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>7681-52-9</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium chlorate</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>7775-09-9</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

International Regulations

Canada
WHMIS Hazard Class
E - Corrosive material

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA Health Hazard</th>
<th>Flammability</th>
<th>Instability</th>
<th>Physical and Chemical Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>0</td>
<td>0</td>
<td>-</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HMIS Health Hazard</th>
<th>Flammability</th>
<th>Physical Hazard</th>
<th>Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>0</td>
<td>0</td>
<td>B</td>
</tr>
</tbody>
</table>

Prepared By
Product Stewardship
23 British American Blvd.
Latham, NY 12110
1-800-572-6501

Revision Date
June 12, 2015

Revision Note
Revision Section 14.

Reference
1096036/164964.159

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

Product identifier

Product Name          Clorox® Toilet Bowl Cleaner Bleach [Rain Clean®]
Other means of identification
EPA Registration Number 5813-89

Recommended use of the chemical and restrictions on use

Recommended use          Disinfecting toilet bowl cleaner with 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

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).

<table>
<thead>
<tr>
<th>Classification</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin corrosion/irritation</td>
<td>1</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>1</td>
</tr>
</tbody>
</table>

GHS Label elements, including precautionary statements

Emergency Overview

<table>
<thead>
<tr>
<th>Signal word</th>
<th>Danger</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Danger</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hazard Statements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Causes severe skin burns and eye damage</td>
</tr>
<tr>
<td>Causes serious eye damage</td>
</tr>
</tbody>
</table>

Appearance Clear, green Physical State Viscous liquid Odor Apple, fruity, floral, 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.
Unknown Toxicity
0.11% of the mixture consists of ingredient(s) of unknown toxicity.

Other information
Very toxic to aquatic life.
Toxic to aquatic life with long lasting effects.

Interactions with Other Chemicals
Reacts with other household chemicals such as other 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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>Trade Secret</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hypochlorite</td>
<td>7681-52-9</td>
<td>1 - 5</td>
<td>*</td>
</tr>
<tr>
<td>Sodium cocoate</td>
<td>67701-10-4</td>
<td>0.5 - 1.5</td>
<td>*</td>
</tr>
<tr>
<td>Sodium hydroxide</td>
<td>1310-73-2</td>
<td>0.1 - 1</td>
<td>*</td>
</tr>
<tr>
<td>Myristamine oxide</td>
<td>3332-27-2</td>
<td>0.1 - 1</td>
<td>*</td>
</tr>
<tr>
<td>Lauramine oxide</td>
<td>1643-20-5</td>
<td>0.1 - 1</td>
<td>*</td>
</tr>
</tbody>
</table>

* 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
Call a poison control center or doctor immediately for treatment advice. 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.

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 Effects
Burning of eyes and skin.

Indication of any immediate medical attention and special treatment needed

Notes to Physician
Treat symptomatically. Use of gastric lavage or emesis is contraindicated.
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
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 in a location inaccessible to children. Tightly close cap between uses.

Incompatible Products
Other toilet bowl cleaners, rust removers, acids, or products containing ammonia.
8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide 1310-73-2</td>
<td>Ceiling: 2 mg/m$^3$</td>
<td>TWA: 2 mg/m$^3$</td>
<td>IDLH: 10 mg/m$^3$</td>
</tr>
<tr>
<td>Sodium hypochlorite 7681-52-9</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Sodium cocoate 67701-10-4</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Myristamine oxide 3332-27-2</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Lauramine oxide 1643-20-5</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

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) or face shield.

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

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
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.
9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks/ Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Viscous liquid</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear</td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>Green</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Apple, fruity, floral, bleach</td>
<td>No information available</td>
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<tr>
<td>Odor Threshold</td>
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<tr>
<td>pH</td>
<td>12.5 - 13.5</td>
<td>None known</td>
</tr>
<tr>
<td>Melting/freezing point</td>
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<td>None known</td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not flammable</td>
<td>None known</td>
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<tr>
<td>Evaporation rate</td>
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<td>None known</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
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<td>None known</td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper flammability limit</td>
<td>No data available</td>
<td>None known</td>
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<tr>
<td>Lower flammability limit</td>
<td>No data available</td>
<td>None known</td>
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<tr>
<td>Vapor pressure</td>
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<td>Vapor density</td>
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<tr>
<td>Specific Gravity</td>
<td>~1.05</td>
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<tr>
<td>Water Solubility</td>
<td>Soluble in water</td>
<td>None known</td>
</tr>
<tr>
<td>Solubility in other solvents</td>
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<td>None known</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
<td>None known</td>
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<tr>
<td>Kinematic viscosity</td>
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<tr>
<td>Dynamic viscosity</td>
<td>~1000 cP</td>
<td>None known</td>
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<td>Explosive Properties</td>
<td>Not explosive</td>
<td></td>
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<tr>
<td>Oxidizing Properties</td>
<td>No data available</td>
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<tr>
<td>Other Information</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Softening Point</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VOC Content (%)</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Particle Size</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Particle Size Distribution</td>
<td>No data available</td>
<td></td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Reactivity
Reacts with other household chemicals such as other 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
Other toilet bowl cleaners, rust removers, acids, or 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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 Oral (mg/kg)</th>
<th>LD50 Dermal (mg/kg)</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hypochlorite</td>
<td>8200 (Rat)</td>
<td>&gt;10000 (Rabbit)</td>
<td>-</td>
</tr>
<tr>
<td>Sodium hydroxide</td>
<td>-</td>
<td>1350 (Rabbit)</td>
<td>-</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hypochlorite</td>
<td>-</td>
<td>Group 3</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

* 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

  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
No information available.
12. ECOLOGICAL INFORMATION

Ecotoxicity
Very toxic to aquatic life. 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

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
LIMITED QUANTITY.

TDG
UN-No: UN1760
Proper Shipping Name: CORROSIVE LIQUID, N.O.S.
Hazard Class: 8
Packing Group: II
Description: UN1760, CORROSIVE LIQUID, N.O.S. (SODIUM HYPOCHLORITE, SODIUM HYDROXIDE), 8, II.

ICAO
UN-No: UN1760
Proper Shipping Name: CORROSIVE LIQUID, N.O.S.
Hazard Class: 8
Packing Group: II
Description: UN1760, CORROSIVE LIQUID, N.O.S. (SODIUM HYPOCHLORITE, SODIUM HYDROXIDE), 8, II.

IATA
UN-No: UN1760
Proper Shipping Name: CORROSIVE LIQUID, N.O.S.
Hazard Class: 8
Packing Group: II
Description: UN1760, CORROSIVE LIQUID, N.O.S. (SODIUM HYPOCHLORITE, SODIUM HYDROXIDE), 8, II.
IMDG/IMO

UN-No: UN1760
Proper Shipping Name: CORROSIVE LIQUID, N.O.S.
Hazard Class: UN1760
Packing Group: CORROSIVE LIQUID, N.O.S.
EmS No.: F-A, S-B
Marine Pollutant: Marine Pollutant exception per IMDG Code 2.10.2.7.
Description: UN1760, CORROSIVE LIQUID, N.O.S. (SODIUM HYPOCHLORITE, SODIUM HYDROXIDE), 8, II.

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)

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CWA - Reportable Quantities</th>
<th>CWA - Toxic Pollutants</th>
<th>CWA - Priority Pollutants</th>
<th>CWA - Hazardous Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hypochlorite</td>
<td>100 lb</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>7681-52-9</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium hydroxide</td>
<td>1000 lb</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>1310-73-2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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)

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Hazardous Substances RQs</th>
<th>Extremely Hazardous Substances RQs</th>
<th>RQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hypochlorite</td>
<td>100 lb</td>
<td></td>
<td>RQ 100 lb final RQ</td>
</tr>
<tr>
<td>7681-52-9</td>
<td></td>
<td></td>
<td>RQ 45.4 kg final RQ</td>
</tr>
<tr>
<td>Sodium hydroxide</td>
<td>1000 lb</td>
<td></td>
<td>RQ 1000 lb final RQ</td>
</tr>
<tr>
<td>1310-73-2</td>
<td></td>
<td></td>
<td>RQ 454 kg final RQ</td>
</tr>
</tbody>
</table>
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. Causes skin irritation. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Do not get in eyes, on skin, or on clothing. For prolonged use, wear gloves. Wash thoroughly with soap and water after handling. Remove and wash contaminated clothing before reuse. Use only in well-ventilated areas.

US State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
<th>Rhode Island</th>
<th>Illinois</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hypochlorite 7681-52-9</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Sodium hydroxide 1310-73-2</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

International Regulations

Canada
WHMIS Hazard Class
E - Corrosive material

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazard</th>
<th>Flammability</th>
<th>Instability</th>
<th>Physical and Chemical Hazards</th>
<th>HMIS</th>
<th>Health Hazard</th>
<th>Flammability</th>
<th>Physical Hazard</th>
<th>Personal Protection</th>
<th>Prepared By</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3</td>
<td>0</td>
<td>0</td>
<td></td>
<td>3</td>
<td></td>
<td>0</td>
<td>0</td>
<td>B</td>
<td>Product Stewardship</td>
</tr>
</tbody>
</table>

Prepared By
Product Stewardship
23 British American Blvd.
Latham, NY 12110
1-800-572-6501

Revision Date
New

Revision Note
New

Reference
1101253/139644.002

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

Product identifier

Product Name Formula 409® Multi-Surface Cleaner

Other means of identification

EPA Registration Number 5813-73

Recommended use of the chemical and restrictions on use

Recommended Use Multi-purpose spray cleaner and disinfectant

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

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).

| Skin corrosion/irritation | Category 3 |

GHS Label elements, including precautionary statements

Emergency Overview

<table>
<thead>
<tr>
<th>Signal word</th>
<th>Warning</th>
</tr>
</thead>
</table>

Hazard statements
Causes mild skin irritation

No pictogram required.

| Appearance | Clear | Physical State | Thin liquid | Odor | Floral, citrus |

Precautionary Statements - Prevention
None

Precautionary Statements - Response
If skin irritation occurs: Get medical advice.

Precautionary Statements - Storage
None

Precautionary Statements - Disposal
None

Hazards not otherwise classified (HNOC)
Not applicable

Unknown Toxicity
0.2% 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
None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>Trade Secret</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lauramine oxide</td>
<td>1643-20-5</td>
<td>0.5 - 1.5</td>
<td>*</td>
</tr>
<tr>
<td>n-Alkyl (40% C12, 50% C14, 10% C16) dimethyl benzyl ammonium chloride</td>
<td>68424-85-1</td>
<td>0.2 - 0.4</td>
<td>*</td>
</tr>
</tbody>
</table>

* 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  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  Call a poison control center or doctor immediately for treatment advice. 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.

Most important symptoms and effects, both acute and delayed

Most Important Symptoms/Effects  Mild irritation of eyes and skin.

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 and skin.

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
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. 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
None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lauramine oxide</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>1643-20-5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>n-Alkyl (40% C12, 50% C14, 10% C16) dimethyl benzyl ammonium chloride 68424-85-1</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

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.  None required for consumer use.

Skin and Body Protection  
No special protective equipment required.

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  
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

<table>
<thead>
<tr>
<th>Physical and Chemical Properties</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physical State</strong></td>
<td>Thin liquid</td>
</tr>
<tr>
<td><strong>Appearance</strong></td>
<td>Clear</td>
</tr>
<tr>
<td><strong>Color</strong></td>
<td>Clear</td>
</tr>
<tr>
<td><strong>Odor</strong></td>
<td>Floral, citrus</td>
</tr>
<tr>
<td><strong>Odor Threshold</strong></td>
<td>No information available</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks/ Method</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>pH</strong></td>
<td>9 - 11.5</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Melting/freezing point</strong></td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Boiling Point/Range</strong></td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Flash Point</strong></td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Flammability (solid, gas)</strong></td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Flammability Limits in Air</strong></td>
<td></td>
<td>None known</td>
</tr>
<tr>
<td></td>
<td>Upper flammability limit</td>
<td>No data available</td>
</tr>
<tr>
<td></td>
<td>Lower flammability limit</td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Vapor pressure</strong></td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Vapor density</strong></td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Specific Gravity</strong></td>
<td>~1.0</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Water Solubility</strong></td>
<td>Soluble in water.</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Solubility in other solvents</strong></td>
<td></td>
<td>None known</td>
</tr>
<tr>
<td><strong>Partition coefficient: n-octanol/water</strong></td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Autoignition temperature</strong></td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Decomposition temperature</strong></td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Kinematic viscosity</strong></td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Dynamic viscosity</strong></td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Explosive Properties</strong></td>
<td>Not explosive</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Oxidizing Properties</strong></td>
<td></td>
<td>None known</td>
</tr>
<tr>
<td><strong>Other Information</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Softening Point</strong></td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td><strong>VOC Content (%)</strong></td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td><strong>Particle Size</strong></td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td><strong>Particle Size Distribution</strong></td>
<td>No data available</td>
<td></td>
</tr>
</tbody>
</table>
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.

Incompatible materials
None known.

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 irritation, nausea, vomiting, and diarrhea.

Information on toxicological effects

Symptoms May cause redness and tearing of the eyes and skin redness.

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 Contains no ingredient listed as a carcinogen.

Reproductive Toxicity No information available

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Chronic Toxicity No known effect.

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 Not applicable.
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

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

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Yes/No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Health Hazard</td>
<td>Yes</td>
</tr>
<tr>
<td>Chronic Health Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Fire Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Sudden Release of Pressure Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Reactive Hazard</td>
<td>No</td>
</tr>
</tbody>
</table>
Clean Water Act
This product does not contain any substances regulated as 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 hazardous substances 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.

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, skin or clothing. Wash thoroughly with soap and water after handling. Avoid contact with foods.

U.S. State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
<th>Rhode Island</th>
<th>Illinois</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanolamine 141-43-5</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

International Regulations

Canada
WHMIS Hazard Class
D2B Toxic Materials
16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazard</th>
<th>Flammability</th>
<th>Instability</th>
<th>Physical and Chemical Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Physical and Chemical Hazards</td>
</tr>
<tr>
<td></td>
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<td>0</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HMIS</th>
<th>Health Hazard</th>
<th>Flammability</th>
<th>Physical Hazard</th>
<th>Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td>0</td>
<td>B</td>
</tr>
</tbody>
</table>

Prepared By: Product Stewardship
23 British American Blvd.
Latham, NY 12110
1-800-572-6501

Preparation Date: November 9, 2015
Revision Date: August 8, 2017
Revision Note: Removal of dye.
Reference: XXXXXXX/166962.001

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
1. Product and Company Identification

Product Name: LYSOL® Brand Disinfectant Power Toilet Bowl Cleaner

UPC CODES Refer to Section 16

CAS #

Product use: Toilet bowl cleaner

Manufacturer: Reckitt Benckiser

Morris Corporate Center IV
399 Interpace Parkway
P.O. Box 225
Parsippany, NJ 07054-0225

In Case of Emergency: 1-800-228-4722

Transportation Emergencies: 24 Hour Number:

North America: CHEMTREC: 1-800-424-9300
Outside North America: 1-703-527-3887

2. Hazards Identification

Emergency overview

DANGER
CORROSIVE TO EYES AND SKIN
This product may be harmful or fatal if swallowed. Avoid contact with eyes, skin or clothing. Avoid breathing mists or vapors. Fumes are corrosive to metal.

Keep out of reach of children.

Potential short term health effects

Routes of exposure
Eye, Skin contact, Inhalation, Ingestion.

Eyes
Causes chemical burns. May cause blindness.

Skin
Causes chemical burns.

Inhalation
May cause respiratory tract irritation or chemical burns.

Ingestion
Harmful if swallowed. May cause chemical burns to mouth, throat and stomach.

Target organs
Eyes. Respiratory system. Skin.

Chronic effects
Prolonged or repeated exposure to dilutions can cause drying, defatting and dermatitis.

Signs and symptoms
The product causes burns of eyes, skin and mucous membranes.

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen chloride</td>
<td>7647-01-0</td>
<td>10 - 20</td>
</tr>
<tr>
<td>Alcohols, C12-16, ethoxylated</td>
<td>68551-12-2</td>
<td>1 - 2.5</td>
</tr>
<tr>
<td>Ethoxylated aliphatic amines</td>
<td>61791-26-2</td>
<td>1 - 2.5</td>
</tr>
</tbody>
</table>

4. First Aid Measures

First aid procedures

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
Immediately flush with cool water for 20 minutes while removing contaminated clothing and shoes. Discard or wash well before reuse. Obtain medical attention if irritation persists.

Inhalation
If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.

Ingestion
Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.

Notes to physician
If the product is ingested, probable mucosal damage may contraindicate the use of gastric lavage. Treat the affected person appropriately. Symptoms may be delayed.

General advice
If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

5. Fire Fighting Measures

Flammable properties
Not flammable by OSHA criteria.

Extinguishing media
Dry chemical. Water spray. Foam.

Protection of firefighters
Firefighters should wear full protective clothing including self contained breathing apparatus.

Hazardous combustion products
May include and are not limited to: Hydrogen chloride. Oxides of carbon.

Explosion data

6. Accidental Release Measures

Personal precautions
Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.

Methods for containment
Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning up
Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills in original containers for re-use. Large Spills: Wet down with water and dike for later disposal. After removal flush contaminated area thoroughly with water.

7. Handling and Storage

Handling
Use good industrial hygiene practices in handling this material. Do not get this material in your eyes, on your skin, or on your clothing.

Storage
Keep out of the reach of children. Store in a closed container away from incompatible materials.
8. Exposure Controls / Personal Protection

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alcohols, C12-16, ethoxylated</td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td>Ethoxylated aliphatic amines</td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td>Hydrogen chloride</td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td>Ceiling: 2 ppm</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td>Ceiling: 5 ppm</td>
</tr>
</tbody>
</table>

Engineering controls

General ventilation normally adequate.

Personal protective equipment

Eye / face protection
- Wear chemical goggles.
- Emergency responders should wear full eye and face protection.

Hand protection
- Rubber gloves. Confirm with a reputable supplier first.
- Emergency responders should wear impermeable gloves.

Skin and body protection
- Emergency responders should wear impermeable clothing and footwear when responding to a situation where contact with the liquid is possible.

Respiratory protection
- Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.
- Emergency responders should wear self-contained breathing apparatus (SCBA) to avoid inhalation of vapours generated by this product during a spill or other clean-up operations.

General hygiene considerations
- Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear</td>
</tr>
<tr>
<td>Color</td>
<td>Blue</td>
</tr>
<tr>
<td>Form</td>
<td>Liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Wintergreen</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>pH</td>
<td>&lt; 1 (Acidic)</td>
</tr>
<tr>
<td>Freezing point</td>
<td>Not available</td>
</tr>
<tr>
<td>Pour point</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 93.33 °C (&gt; 200 °F) Tagliahue</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability limits in air, lower, % by volume</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability limits in air, upper, % by volume</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not available</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>Not available</td>
</tr>
<tr>
<td>Octanol/water coefficient</td>
<td>Not available</td>
</tr>
<tr>
<td>Solubility (H2O)</td>
<td>Complete</td>
</tr>
</tbody>
</table>
10. Stability and Reactivity

Chemical stability
Stable under recommended storage conditions.

Conditions to avoid
Do not mix with other chemicals. Reacts violently with alkaline material. This product may react with reducing agents. Fumes are corrosive to metal.

Incompatible materials
Bases. Reducing agents.

Hazardous decomposition products
May include and are not limited to:

Possibility of hazardous reactions
Hazardous polymerization does not occur.

11. Toxicological Information

Acute effects
Acute LD50: 1350 mg/kg, Rat, Oral
Acute LD50: >2000 mg/kg, Rabbit, Dermal

Component analysis - LC50

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alcohols, C12-16, ethoxylated</td>
<td>Not available</td>
</tr>
<tr>
<td>Ethoxylated aliphatic amines</td>
<td>Not available</td>
</tr>
<tr>
<td>Hydrogen chloride</td>
<td>935 ppm mouse; 3124 mg/l/4h rat</td>
</tr>
</tbody>
</table>

Component analysis - Oral LD50

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>LD50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alcohols, C12-16, ethoxylated</td>
<td>1380 mg/kg rat</td>
</tr>
<tr>
<td>Ethoxylated aliphatic amines</td>
<td>620 mg/kg rat</td>
</tr>
<tr>
<td>Hydrogen chloride</td>
<td>900 mg/kg rabbit; 700 mg/kg rat</td>
</tr>
</tbody>
</table>

Effects of acute exposure

Eye
Causes chemical burns. May cause blindness.

Skin
Causes chemical burns.

Inhalation
May cause respiratory tract irritation or chemical burns.

Ingestion
Harmful if swallowed. May cause chemical burns to mouth, throat and stomach.

Sensitization
The finished product is not expected to have chronic health effects.

Chronic effects
The finished product is not expected to have chronic health effects.

Carcinogenicity
The finished product is not expected to have chronic health effects.

ACGIH - Threshold Limit Values - Carcinogens
Hydrogen chloride 7647-01-0 A4 - Not Classifiable as a Human Carcinogen
IARC - Group 3 (Not Classifiable) Hydrogen chloride 7647-01-0 Monograph 54 [1992]

Mutagenicity
The finished product is not expected to have chronic health effects.

Reproductive effects
The finished product is not expected to have chronic health effects.

Teratogenicity
The finished product is not expected to have chronic health effects.

Synergistic Materials
Not available

12. Ecological Information

Ecotoxicity
Bulk quantities, if spilled, may be toxic to aquatic organisms, fish, birds and mammals. Control and clean up all exterior spills and prevent liquid from entering any streams, rivers, lakes and all other bodies of water.

Ecotoxicity - Freshwater Fish Species Data

<table>
<thead>
<tr>
<th>Hydrogen chloride</th>
<th>96 Hr LC50 Gambusia affinis: 282 mg/L [static]</th>
</tr>
</thead>
</table>

Environmental effects
Not available

Aquatic toxicity
Not available

Persistence / degradability
Not available

Bioaccumulation / accumulation
Not available
13. Disposal Considerations

<table>
<thead>
<tr>
<th>Waste codes</th>
<th>Not available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disposal instructions</td>
<td>Dispose in accordance with all applicable regulations.</td>
</tr>
<tr>
<td>Waste from residues / unused products</td>
<td>Not available</td>
</tr>
<tr>
<td>Contaminated packaging</td>
<td>Not available</td>
</tr>
</tbody>
</table>

14. Transport Information

**U.S. Department of Transportation (DOT)**

UN 1789, Hydrochloric Acid Solution, Class 8, PG II,
Re-Classed as Consumer Commodity ORM-D

**Transportation of Dangerous Goods (TDG - Canada)**

UN 1789, Hydrochloric Acid Solution, Class 8, PG II,
Re-Classed as Consumer Commodity / Limited Quantity

**IMDG (Marine Transport)**

UN 1789, Hydrochloric Acid Solution, Class 8, PG II, Limited Quantity
15. Regulatory Information

US Federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

EPA Registration No. - 777-81

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

Hydrogen chloride 7647-01-0 5000 Lb final RQ; 2270 kg final RQ

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

Hydrogen chloride 7647-01-0 5000 Lb EPCRA RQ (gas only)

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

Hydrogen chloride 7647-01-0 500 Lb TPQ (gas only)

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

Hydrogen chloride 7647-01-0 1.0 % de minimis concentration (acid aerosols including mists, vapors, gas, fog, and other airborne forms of any particle size)

U.S. - CWA (Clean Water Act) - Hazardous Substances

Hydrogen chloride 7647-01-0 Present

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical

CERCLA (Superfund) reportable quantity

Hydrogen chloride: 5000.0000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance

No

Section 311 hazardous chemical

Yes

Clean Air Act (CAA)

Not available

Clean Water Act (CWA)

Not available
State regulations

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances
Hydrogen chloride 7647-01-0 Present

U.S. - Illinois - Toxic Air Contaminants
Hydrogen chloride 7647-01-0 Present (aerosol)

U.S. - Louisiana - Reportable Quantity List for Pollutants
Hydrogen chloride 7647-01-0 5000 Lb RQ (applies to unauthorized emissions based on total mass emitted into or onto all media within any consecutive 24-hour period); 1000 lb RQ (applies to unauthorized emissions based on total mass emitted into the atmosphere)

U.S. - Massachusetts - Right To Know List
Hydrogen chloride 7647-01-0 Extraordinarily hazardous

U.S. - Minnesota - Hazardous Substance List
Hydrogen chloride 7647-01-0 Present

U.S. - New Jersey - Right to Know Hazardous Substance List
Hydrogen chloride 7647-01-0 sn 1012

U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances
Hydrogen chloride 7647-01-0 5000 Lb RQ (air); 100 lb RQ (land/water)

U.S. - North Carolina - Control of Toxic Air Pollutants
Hydrogen chloride 7647-01-0 0.7 mg/m3 (acute irritants)

U.S. - Ohio - Extremely Hazardous Substances - Threshold Quantities
Hydrogen chloride 7647-01-0 500 Lb TQ (gas only)

U.S. - Pennsylvania - RTK (Right to Know) List
Hydrogen chloride 7647-01-0 Environmental hazard

U.S. - Rhode Island - Hazardous Substance List
Hydrogen chloride 7647-01-0 Toxic; Flammable

U.S. - Texas - Tier II Chemical Reporting - Extremely Hazardous Substances - Reportable Quantities
Hydrogen chloride 7647-01-0 5000 Lb RQ (gas)

U.S. - Texas - Tier II Chemical Reporting - Extremely Hazardous Substances - Threshold Planning Quantities
Hydrogen chloride 7647-01-0 500 Lb TPQ (gas)

Inventory status

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

Disclaimer

This product should only be used as directed on the label and for the purpose intended. To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Recommended use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Further information

19200-02518-LYSOL® Brand Disinfectant Power Toilet Bowl -16oz.
FORMULA NUMBER 353846
EPA Registration No. - 777-81

19200-02522-LYSOL® Brand Disinfectant Power Toilet Bowl-24 oz.
FORMULA NUMBER 353846
EPA Registration No. - 777-81

19200-79174-LYSOL® Brand Disinfectant Power Toilet Bowl-2/24 oz.
FORMULA NUMBER 353846
EPA Registration No. - 777-81

Issue date

30-Oct-2009

Effective date

31-Oct-2009

Prepared by

Reckitt Benckiser Regulatory Department  800-333-3899

Other information

For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.
1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name: Original Pine-Sol® Multi-Surface Cleaner

Other means of identification

EPA Registration Number: 5813-101

Recommended use of the chemical and restrictions on use

Recommended Use: General purpose household cleaner and disinfectant

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

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 not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

GHS Label elements, including precautionary statements

Emergency Overview

This product contains no substances which at their given concentration are considered to be hazardous to health.

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Physical State</th>
<th>Odor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clear, amber</td>
<td>Slightly viscous liquid</td>
<td>Pine</td>
</tr>
</tbody>
</table>

Precautionary Statements - Prevention

None

Precautionary Statements - Response

None

Precautionary Statements - Storage

None

Precautionary Statements - Disposal

None

Hazards not otherwise classified (HNOC)

Not applicable

Unknown Toxicity

6.8% of the mixture consists of ingredient(s) of unknown toxicity

Other information

May cause slight skin and eye irritation.

Interactions with Other Chemicals

May react with bleach-containing products or other household cleaners to produce hazardous gases.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>Trade Secret</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alkyl alcohol alkoxylate</td>
<td>166736-08-9</td>
<td>3 - 7</td>
<td>*</td>
</tr>
<tr>
<td>Glycolic acid</td>
<td>79-14-1</td>
<td>1 - 5</td>
<td>*</td>
</tr>
</tbody>
</table>

* 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.

Skin Contact

Rinse skin with plenty of soap and water.
Inhalation: Move to fresh air. If breathing is affected, call a doctor.

Ingestion: Call a poison control center or doctor for treatment advice. 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.

Most important symptoms and effects, both acute and delayed

Most Important Symptoms/Effects: Mild irritation of eyes and skin.

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 and skin.

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: 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. 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
Products containing bleach and other household cleaners.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines
This product contains no exposure guidelines.

Appropriate engineering controls

Engineering Measures
None under normal use conditions.

Individual protection measures, such as personal protective equipment

Eye/Face Protection
If splashes are likely to occur, wear safety glasses with side-shields. None required for consumer use.

Skin and Body Protection
No special protective equipment required.

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
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

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks/ Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Slightly viscous liquid</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear</td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>Amber</td>
<td>Odor</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>2.1 – 2.6</td>
<td>None known</td>
</tr>
<tr>
<td>Melting/freezing point</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Boiling Point/Range</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Flash Point</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper flammability limit</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Lower flammability limit</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Vapor density</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>~1.0</td>
<td>None known</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Soluble in water.</td>
<td>None known</td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Kinematic viscosity</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Dynamic viscosity</td>
<td>~15 cP</td>
<td>None known</td>
</tr>
<tr>
<td>Explosive Properties</td>
<td>Not explosive</td>
<td></td>
</tr>
<tr>
<td>Oxidizing Properties</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Other Information</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Softening Point</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>VOC Content (%)</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Particle Size</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Particle Size Distribution</td>
<td>No data available</td>
<td></td>
</tr>
</tbody>
</table>
10. STABILITY AND REACTIVITY

Reactivity
May react with bleach-containing products or other household cleaners to produce hazardous gases.

Chemical stability
Stable under recommended storage conditions.

Possibility of Hazardous Reactions
None under normal processing.

Conditions to avoid
None known.

Incompatible materials
Products containing bleach and other household cleaners.

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 irritation, nausea, vomiting, and diarrhea.

Component information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycolic acid</td>
<td>-</td>
<td>-</td>
<td>7.7 mg/L (Rat, 4 h)</td>
</tr>
<tr>
<td>79-14-1</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Information on toxicological effects

Symptoms
May cause redness and tearing of the eyes and skin redness.

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
Contains no ingredient listed as a carcinogen.

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
Not applicable.

12. ECOLOGICAL INFORMATION

Ecotoxicity
No information available.

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

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Health Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Chronic Health Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Fire Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Sudden Release of Pressure Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Reactive Hazard</td>
<td>No</td>
</tr>
</tbody>
</table>

Clean Water Act
This product does not contain any substances regulated as 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 hazardous substances 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.

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, skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

U.S. State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations
None known.

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazard</th>
<th>Flammability</th>
<th>Instability</th>
<th>Physical and Chemical Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HMIS</th>
<th>Health Hazard</th>
<th>Flammability</th>
<th>Physical Hazard</th>
<th>Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>A</td>
</tr>
</tbody>
</table>

Prepared By
Product Stewardship
23 British American Blvd.
Latham, NY 12110
1-800-572-6501

Issuing Date
January 5, 2015

Revision Date
February 4, 2019

Reference
1092238/204495.001

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
Safety Data Sheet  
Per GHS Standard Format

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name:  ShockWave Concentrate No. 8310, No. 8311 (10oz. bottles) & No. 8310CA ShockWave California  
General Use:  Disinfectant, Virucide, Fungicide  
Product Description:  Disinfectant and Cleaner  
Chemical Family:  Quaternary ammonium chloride blend  
EPA Registration Number:  61178-1-73884

Information on the Supplier of the Safety Data Sheet

Manufactured For:  Fiberlock Technologies, Inc.  
150 Dascomb Road  
Andover, MA  01810  
P:  800-342-3755  F:  978-475-6205  
Emergency Telephone Numbers:  
CHEM TEL:  (U.S.):  1-800-255-3924  
(Outside the U.S.):  813-248-0585  
Poison Control Center (Medical):  800-222-1222

SECTION 2: HAZARDS IDENTIFICATION

Signal Word:  DANGER

GHS Label Statements

Hazard Statements:  
Causes severe skin burns and eye damage.  
Harmful if swallowed.  
Toxic to aquatic life.

GHS Classifications

Health:  
Acute Toxicity (Oral), Category 5  
Skin Corrosion, Category 1C  
Eye Corrosion, Category 1

Environmental:  
Acute Hazards to the Aquatic Environment, Category 1
PRECAUTIONARY STATEMENTS

Prevention: Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe fumes, mist, vapors or spray. Avoid release to the environment. Wash hands thoroughly after handling. Keep out of reach of children.

Response: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. 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. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Wash contaminated clothing before reuse. Collect spillage.

Storage: Store locked up.
Disposal: Dispose of contents/container in accordance with all local, state, and federal regulations.

EMERGENCY OVERVIEW

Physical appearance: Blue liquid
Immediate concerns: Causes irreversible eye damage and skin burns.

POTENTIAL HEALTH EFFECTS

Eyes: Corrosive, contact causes severe eye burns.
Skin: Contact causes severe skin irritation and possible burns.
Skin absorption: Harmful if absorbed through skin.
Ingestion: Harmful if swallowed.
Inhalation: Mist is irritating to nose, throat and lungs.

REPRODUCTIVE TOXICITY

Teratogenic effects: None known.

Carcinogenicity: None known.
Mutagenicity: None known.
Routes of entry: Eye, skin, ingestion.
Warning caution labels: Corrosive
Physical hazards: None expected.

SECTION 3: COMPOSITION INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Weight, %</th>
</tr>
</thead>
<tbody>
<tr>
<td>N-Alkyl Dimethyl Benzyl Ammonium Chloride (C12-C18)</td>
<td>68391-01-5</td>
<td>2.37</td>
</tr>
<tr>
<td>N-Alkyl Dimethyl Ethyl Benzyl Ammonium Chloride (C12-C14)</td>
<td>68956-79-6</td>
<td>2.37</td>
</tr>
<tr>
<td>Tetrasodium Ethylenediamine Tetraacetate</td>
<td>64-02-8</td>
<td>0-5</td>
</tr>
<tr>
<td>Sodium Carbonate</td>
<td>497-19-8</td>
<td>0-5</td>
</tr>
<tr>
<td>Secondary Ethoxylated Alcohol</td>
<td>84133-50-6</td>
<td>0-5</td>
</tr>
<tr>
<td>Fragrance</td>
<td>N/A</td>
<td>&lt;1</td>
</tr>
<tr>
<td>Dye</td>
<td>N/A</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>85-95</td>
</tr>
</tbody>
</table>
SECTION 4: FIRST AID MEASURES

**Eyes**
Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Seek medical attention immediately.

**Skin**
Remove contaminated clothing. Immediately flush with water followed by washing with mild soap. Seek medical attention.

**Inhalation**
Remove victim to fresh air and monitor. Seek medical advice if irritation persists.

**Ingestion**
Get immediate medical attention. Do not induce vomiting unless instructed to do so by poison center or physician.

**Signs and Symptoms of Overexposure**
- **Eyes:** Severe burning sensation, damage marked by burns.
- **Skin:** Burning sensation, redness.
- **Ingestion:** Irritation of mouth, throat, along with stomach upset, vomiting.
- **Inhalation:** Irritation of nose, throat and lungs with coughing, sneezing, possible difficulty breathing.
- **Acute toxicity:** Corrosive to eyes. Causes moderate to severe skin irritation. Harmful if swallowed.

**Notes To Physician**
Probable mucosal damage may contraindicate the use of gastric lavage.

SECTION 5: FIRE-FIGHTING MEASURES

**Flammable class:** None
**Extinguishing media:** Use an extinguishing agent suitable for the surrounding fire.
**Explosion hazards:** None
**Fire-fighting procedures:** Keep fire exposed containers cool with water stream or mist.
**Hazardous decomposition products:** Decomposition products may include: Carbon dioxide, carbon monoxide, nitrogen oxides.

SECTION 6: ACCIDENTAL RELEASE MEASURES

**Small spill:** Avoid runoff into storm sewers and ditches which lead to waterways.
**Large spill:** Avoid walking in material. Prevent product from entering into stream, soil, storm sewer or other bodies of water.
**Environmental Precautions**
- **Water spill:** Avoid discharges into open waterways.
- **Land spill:** Avoid discharge to soil.
- **Air spill:** NA = Not Applicable
General procedures: Isolate spill or leak area immediately. Keep unauthorized personnel away. Do not touch or walk through spilled material. Prevent entry into waterways, sewers, or confined areas. Absorb with dry earth, sand or other noncombustible material and transfer to containers.

Release notes: Product is toxic to fish and aquatic invertebrates.

Special protective equipment: Eye protection, rubber gloves, rubber boots to protect feet.

SECTION 7: HANDLING AND STORAGE

General Procedures
Do not contaminate water, food, or feed by storage or disposal.

Handling
Avoid contact with skin and eyes. Wash hands before eating, drinking, smoking or using toilet facilities.

Storage
Store only in original container. Do not reuse empty container. If a leaky container must be contained within another, mark the outer container to identify the contents. Store pesticides away from food, pet food, feed, and water sources. Keep this product under locked storage sufficient to make it inaccessible to children or persons unfamiliar with its proper use.

Storage Temperature
Store at ambient temperatures.

Storage Pressure
Store at ambient atmospheric pressure.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls: Use in well ventilated area.

Personal Protective Equipment
- Eyes and face: Chemical splash goggles.
- Skin: Rubber or other chemical resistant gloves.
- Respiratory: A respirator is not needed under normal and intended conditions of product use.

Work hygienic practices: Wash with soap and water after handling. Do not eat, drink or smoke while using product.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid
Odor: Clean & Fresh
Odor threshold: Not Established
Color: Blue
pH: 11.0-12.0
Percent volatile: >90
Flash point and method: None
Flammable limits: N/A
Autoignition temperature: NA = Not Applicable
Vapor pressure: > 20 mm Hg at 20°C (68°F)
Vapor density: ~ Air = 1
Boiling point: 212°F; 100°C
Freezing point: 32°F; 0°C
Thermal decomposition: Not Available
Solubility in water: Complete
Evaporation rate: (Water = 1) 1.0
Density: 8.66 at 20°C (68°F)
Specific gravity: 1.038 grams/ml. at 20°C (68°F)
Viscosity: Water thin.
(VOC): None

SECTION 10: STABILITY AND REACTIVITY

Reactivity
Stable

Conditions to Avoid
Not established

Incompatible Materials
Strong oxidizers

Hazardous Decomposition Products
None expected

Hazardous Polymerization
Hazardous polymerization will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD_{50} (rat)</th>
<th>Dermal LD_{50} (rabbit)</th>
<th>Inhalation LC_{50} (rat)</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-Alkyl dimethyl benzyl ammonium chloride (C12-C18)</td>
<td>&gt;1890 mg/kg (rat)</td>
<td>&gt;2000 mg/kg (rabbit)</td>
<td>~5750 mg/l (Aerosol)</td>
</tr>
<tr>
<td>N-alkyl Dimethyl Ethyl Benzyl Ammonium Chloride (C12-C14)</td>
<td>&gt;500 mg/kg (rat)</td>
<td>&gt;2000 mg/kg (rabbit)</td>
<td></td>
</tr>
<tr>
<td>Tetrasodium ethylenediamine tetraacetate</td>
<td>3030 mg/kg (rat)</td>
<td>&gt;5000 mg/kg (rabbit)</td>
<td></td>
</tr>
<tr>
<td>Sodium Carbonate</td>
<td>~4090 mg/kg (rat)</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Secondary Ethoxylated Alcohol</td>
<td>&gt;412 mg/kg (rat)</td>
<td>&gt;14000 mg/kg (rabbit)</td>
<td></td>
</tr>
</tbody>
</table>

Eyes: Corrosive
Dermal LD_{50}: > 2000 mg/kg male and female rabbits.
Skin absorption: Not Established
Oral LD_{50}: > 1890 mg/kg Male and Female rats.
Inhalation LC_{50}: Not Established

Eye effects: Corrosive to eyes. Permanent damage may occur.
Skin effects: Corrosive to skin.
Carcinogenicity
IARC: No listed substance
Corrosivity: Corrosive
Neurotoxicity: No known significant effects or critical hazards.
Genetic effects: No known significant effects or critical hazards.
Reproductive effects: No known significant effects or critical hazards.
Target organs: No known significant effects or critical hazards.
Mutagenicity: No known significant effects or critical hazards.
SECTION 12: ECOLOGICAL INFORMATION

Environmental data: Not Established
Ecotoxicological information: This product is toxic to fish and aquatic invertebrates.
Aquatic toxicity (acute): Not Established
Chemical fate information: Not Established

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal method: Attempt to use product completely in accordance with intended use. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at your local office, or the nearest EPA regional office for guidance.
For large spills: Consult with local and state authorities for large volume disposal.
Product disposal: Any method in accordance with local, state, and federal laws. Best method is to recycle or reuse for intended purpose.
Empty container: Triple rinse container promptly after emptying. Fill container 1/4 full with water and recap. Shake for 10 seconds. Drain and repeat. Offer for recycling if available or puncture and dispose in a sanitary landfill, or by other procedures approved by state and local authorities.

SECTION 14: TRANSPORT INFORMATION

DOT
Proper Shipping Name Not Regulated
Placards None
Label None
U.S. Customs Harmonization # 3808.94.0000

IATA/ICAO
Shipping Name Not Regulated

IMDG/IMO
Shipping Name Not Regulated

SECTION 15: REGULATORY INFORMATION

United States
DOT label symbol and hazard classification

Sara Title III (Superfund Amendments and Reauthorization Act)
311/312 Hazard Categories: Health - Acute
Fire: No Pressure Generating: No Reactivity: No Acute: Yes Chronic: No
313 Reportable Ingredients: No listed substance

302/304 Emergency Planning
Emergency Plan: No listed substance
TSCA (Toxic Substance Control Act)
TSCA Regulatory: All ingredients are listed on the TSCA Chemical Inventory.
States with Special Requirements: 

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Name Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Carbonate</td>
<td>Pennsylvania Right To Know Substance</td>
</tr>
<tr>
<td></td>
<td>New Jersey Right To Know Substance</td>
</tr>
</tbody>
</table>

California Proposition 65: No listed substance
Carcinogen: No listed substance
FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act): Regulated

SECTION 16: OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Instability</th>
<th>Special Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMIS</td>
<td>Health Hazards</td>
<td>Flammability</td>
<td>Physical Hazard</td>
<td>Personal Protection</td>
</tr>
</tbody>
</table>

WARNING! If you scrape, sand or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear NIOSH-approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD (5323) or log on to: [www.epa.gov/lead](http://www.epa.gov/lead)

Manufacturer Disclaimer: This company cannot anticipate all conditions of handling and use of this product. Therefore, this company accepts no responsibility for results obtained by the application of this information, or the safety and suitability of the product either alone or in combination with other products. It is the responsibility of the employer and/or user to provide a safe workplace, using health and safety information contained herein as a guide. This company will accept no liability for damages or losses incurred from the improper handling and use of this product.
FANTASTIK ALL-PURPOSE CLEANER (EPA REG No. 4822-530)

Version 1.1 Print Date 06/01/2018
Revision Date 02/24/2015 SDS Number 350000026042

1. PRODUCT AND COMPANY IDENTIFICATION

Product information
Product name : FANTASTIK ALL-PURPOSE CLEANER
(EPA REG No. 4822-530)

Recommended use : Hard Surface Cleaner

Manufacturer, importer, supplier
S.C. Johnson & Son, Inc.
1525 Howe Street
Racine WI 53403-2236

Telephone : +18005585252
Emergency telephone number
24 Hour Medical Emergency Phone: (866)231-5406
24 Hour International Emergency Phone: (703)527-3887
24 Hour Transport Emergency Phone: (800)424-9300

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Globally Harmonized System (GHS) Classification
This product does not meet the criteria for classification in any hazard class according to regulation OSHA 29 CFR 1910.1200.

Labelling
Precautionary statements
Other hazards : None identified

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product does not contain hazardous chemicals at or above a reportable level as defined by OSHA 29 CFR 1910.1200

For additional information on product ingredients, see www.whatsinsidescjohnson.com.

4. FIRST AID MEASURES

Eye contact : No special requirements
FANTASTIK ALL-PURPOSE CLEANER (EPA REG No. 4822-530)

Version 1.1
Revision Date 02/24/2015
Print Date 06/01/2018
SDS Number 350000026042

Skin contact : No special requirements
Inhalation : No special requirements.
Ingestion : No special requirements

5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Specific hazards during firefighting : Container may melt and leak in heat of fire.
Further information : Fight fire with normal precautions from a reasonable distance. Standard procedure for chemical fires. Wear full protective clothing and positive pressure self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Wash thoroughly after handling.
Environmental precautions : Outside of normal use, avoid release to the environment.
Methods and materials for containment and cleaning up : Dike large spills. Clean residue from spill site.

7. HANDLING AND STORAGE

Handling
Precautions for safe handling : Avoid contact with skin, eyes and clothing. For personal protection see section 8. KEEP OUT OF REACH OF CHILDREN AND PETS.
Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Storage
Requirements for storage areas and containers: Keep container closed when not in use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits
ACGIH or OSHA exposure limits have not been established for this product or reportable ingredients unless noted in the table above.

Personal protective equipment

Respiratory protection: No special requirements.
Hand protection: No special requirements.
Eye protection: No special requirements.
Skin and body protection: No special requirements.
Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: liquid
Color: colourless
Odor: Fruity Floral

Odour Threshold: Test not applicable for this product type

pH: 11.75

Melting point/freezing point: Test not applicable for this product type
Initial boiling point and boiling range: > 100 °C
Flash point: does not flash
**FANTASTIK ALL-PURPOSE CLEANER (EPA REG No. 4822-530)**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Evaporation rate</td>
<td>Test not applicable for this product type</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>The product is not flammable.</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>Test not applicable for this product type</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>Test not applicable for this product type</td>
</tr>
<tr>
<td>Vapour density</td>
<td>Test not applicable for this product type</td>
</tr>
<tr>
<td>Relative density</td>
<td>1 g/cm³ similar to water</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>completely soluble</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>Test not applicable for this product type</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Test not applicable for this product type</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Test not applicable for this product type</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>Test not applicable for this product type</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>Test not applicable for this product type</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>Test not applicable for this product type</td>
</tr>
<tr>
<td>Volatile Organic Compounds</td>
<td>0.5 % - additional exemptions may apply</td>
</tr>
<tr>
<td></td>
<td>*as defined by US Federal and State Consumer Product</td>
</tr>
</tbody>
</table>
FANTASTIK ALL-PURPOSE CLEANER (EPA REG No. 4822-530)

10. STABILITY AND REACTIVITY

Possibility of hazardous reactions: If accidental mixing occurs and toxic gas is formed, exit area immediately. Do not return until well ventilated.

Conditions to avoid: Direct sources of heat.

Incompatible materials: Do not mix with bleach or any other household cleaners. Strong bases

Hazardous decomposition products: Thermal decomposition can lead to release of irritating gases and vapours.

11. TOXICOLOGICAL INFORMATION

Emergency Overview: This product does not meet the criteria for classification in any hazard class according to regulation OSHA 29 CFR 1910.1200.

Acute oral toxicity: LD50 estimated > 5,000 mg/kg

Acute inhalation toxicity: No data available

Acute dermal toxicity: LD50 estimated > 5,000 mg/kg

<table>
<thead>
<tr>
<th>GHS Properties</th>
<th>Classification</th>
<th>Routes of entry</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>No classification proposed</td>
<td>-</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>No classification proposed</td>
<td>-</td>
</tr>
</tbody>
</table>
**12. ECOLOGICAL INFORMATION**

**Product**: The product itself has not been tested.

**Toxicity**
The ingredients in this formula have been reviewed and no adverse impact to the environment is expected when used according to label directions.

*No environmental data required.*

**Other adverse effects**: None known.
13. DISPOSAL CONSIDERATIONS

Consumer may discard empty container in trash, or recycle where facilities exist.

14. TRANSPORT INFORMATION

Please refer to the Bill of Lading/receiving documents for up-to-date shipping information.

**Land transport**
Not classified as dangerous in the meaning of transport regulations.

**Sea transport**
Not classified as dangerous in the meaning of transport regulations.

**Air transport**
Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

**Notification status**
All ingredients of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

**Notification status**
All ingredients of this product comply with the New Substances Notification requirements under the Canadian Environmental Protection Act (CEPA).

**California Prop. 65**
This product is not subject to the reporting requirements under California's Proposition 65.

**Registration # / Agency**
4822-530/US/EPA
Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200

FANTASTIK ALL-PURPOSE CLEANER (EPA REG No. 4822-530)

Version 1.1
Print Date 06/01/2018
Revision Date 02/24/2015
SDS Number 350000026042

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>HMIS Ratings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
</tr>
<tr>
<td>Flammability</td>
</tr>
<tr>
<td>Reactivity</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NFPA Ratings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
</tr>
<tr>
<td>Fire</td>
</tr>
<tr>
<td>Reactivity</td>
</tr>
<tr>
<td>Special</td>
</tr>
</tbody>
</table>

This information is being provided in accordance with the Occupational Safety and Health Administration (OSHA) regulation (29 CFR 1910.1200). The information supplied is designed for workplaces where product use and frequency of exposure exceeds that established for the labeled consumer use.

Further information

This document has been prepared using data from sources considered to be technically reliable. It does not constitute a warranty, expressed or implied, as to the accuracy of the information contained herein. Actual conditions of use are beyond the seller’s control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.

Prepared by

SC Johnson Global Safety Assessment & Regulatory Affairs (GSARA)
1. IDENTIFICATION

Product identifier
Product Name the Works Toilet Bowl Cleaner

Other means of identification
Product Code 324WK
UN/ID no. UN3264

Recommended use of the chemical and restrictions on use
Recommended Use Home care.
Uses advised against Do not mix with other chemicals

Details of the supplier of the safety data sheet
Supplier Address HomeCare Labs, Inc.
P.O. Box 491150
Lawrenceville, GA 30049-1002
Telephone: (800) 949-7946

Emergency telephone number
Emergency Telephone Chemtrec (Transportation) 1-800-424-9300, 703-527-3887
Poison Control Center (Medical) : (877) 800-5553

2. HAZARDS IDENTIFICATION

Classification
OSHA Regulatory Status
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

<table>
<thead>
<tr>
<th>Hazard statement</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity - Inhalation (Gases)</td>
<td>Category 4</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Category 1</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 1</td>
</tr>
</tbody>
</table>

Label elements

Emergency Overview

Hazard statements
Harmful if inhaled
Causes severe skin burns and eye damage

Color blue
Physical state liquid
Odor Mint-like

Precautionary Statements - Prevention
Use only outdoors or in a well-ventilated area
Do not breathe dust/fume/gas/mist/vapors/spray
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response
Immediately call a POISON CENTER or doctor/physician
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
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Call a POISON CENTER or doctor/physician if you feel unwell
Immediately call a POISON CENTER or doctor/physician
IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

Precautionary Statements - Storage
Store locked up

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)
Not applicable

Other Information
0.59% of the mixture consists of ingredient(s) of unknown toxicity

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrochloric Acid</td>
<td>7647-01-0</td>
<td>9.5</td>
</tr>
</tbody>
</table>

### 4. FIRST AID MEASURES

Description of first aid measures

**General advice**
Immediate medical attention is required.

**Eye contact**
Immediate medical attention is required. 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. Call a physician immediately.

**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 not breathing, give artificial respiration. If breathing is difficult, give oxygen. If symptoms persist, call a physician.

**Ingestion**
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Clean mouth with water and drink afterwards plenty of water. Call a physician or poison control center immediately.

**Self-protection of the first aider**
Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.
Most important symptoms and effects, both acute and delayed

Symptoms
No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians
Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. 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
None known.

Specific hazards arising from the chemical
The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating and toxic gases and vapors. In the event of fire and/or explosion do not breathe fumes.

 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
Evacuate personnel to safe areas. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Keep people away from and upwind of spill/leak.

Environmental precautions

Environmental precautions
Do not allow into any sewer, on the ground or into any body of water. Should not be released into the environment. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. 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
Dike far ahead of liquid spill for later disposal. Soak up with inert absorbent material. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. Prevent product from entering drains. Dam up. After cleaning, flush away traces with water.

7. HANDLING AND STORAGE

Precautions for safe handling
Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation, especially in confined areas. In case of insufficient ventilation, wear suitable respiratory equipment. Use only with adequate ventilation and in closed systems. Do not breathe dust/fume/gas/mist/vapors/spray. Do not mix with other chemicals.
Conditions for safe storage, including any incompatibilities

Storage Conditions
Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers.

Incompatible materials

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrochloric Acid</td>
<td>Ceiling: 2 ppm</td>
<td>(vacated) Ceiling: 5 ppm</td>
<td>Ceiling: 5 ppm</td>
</tr>
<tr>
<td>7647-01-0</td>
<td></td>
<td></td>
<td>IDLH: 56 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Ceiling: 7 mg/m³</td>
</tr>
</tbody>
</table>

NIOSH IDLH  Immediately Dangerous to Life or Health

Other Information
Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls

Engineering Controls
Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection
Wear safety glasses with side shields (or goggles). Tight sealing safety goggles. Face protection shield.

Skin and body protection
Wear protective gloves and protective clothing.

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.

General Hygiene Considerations
When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Keep away from food, drink and animal feeding stuffs. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Take off all contaminated clothing and wash it before reuse. Wear suitable gloves and eye/face protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks • Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>liquid</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>aqueous solution</td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>blue</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Mint-like</td>
<td></td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>&lt;1</td>
<td></td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>-40 °C / -40 °F</td>
<td></td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>102 °C / 215 °F</td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>No information available</td>
<td></td>
</tr>
</tbody>
</table>
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
Extremes of temperature and direct sunlight.

Incompatible materials

Hazardous Decomposition Products
Thermal decomposition can lead to release of irritating and toxic gases and vapors. Hydrogen chloride.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation
Avoid breathing vapors or mists. Irritating to respiratory system. Harmful by inhalation.

Eye contact
Severely irritating to eyes. Risk of serious damage to eyes. Causes burns.

Skin contact
Contact causes severe skin irritation and possible burns.

Ingestion
Harmful if swallowed.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrochloric Acid</td>
<td>238 - 277 mg/kg (Rat)</td>
<td>&gt; 5010 mg/kg (Rabbit)</td>
<td>= 1.68 mg/L (Rat) 1 h</td>
</tr>
</tbody>
</table>

Information on toxicological effects

Symptoms
No information available.
Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization
No information available.

Germ cell mutagenicity
No information available.

Carcinogenicity
The table below indicates whether each agency has listed any ingredient as a carcinogen.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrochloric Acid</td>
<td>-</td>
<td>Group 3</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>7647-01-0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

IARC (International Agency for Research on Cancer)  
Not classifiable as a human carcinogen

Reproductive toxicity  
No information available.

STOT - single exposure  
No information available.

STOT - repeated exposure  
No information available.

Chronic toxicity  
Avoid repeated exposure.

Target Organ Effects  
Eyes, Respiratory system, Skin.

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.

12. ECOLOGICAL INFORMATION

Ecotoxicity

0.58735% of the mixture consists of components(s) of unknown hazards to the aquatic environment

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrochloric Acid</td>
<td>-</td>
<td>282: 96 h Gambusia affinis mg/L LC50 static</td>
<td>-</td>
</tr>
<tr>
<td>7647-01-0</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Persistence and degradability
No information available.

Bioaccumulation
No information available.

Mobility
No information available.

Other adverse effects
No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes
This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

Contaminated packaging
Do not reuse container. Refer to all federal, state and local regulations prior to disposal of container and unused contents by reuse, recycle or disposal.

14. TRANSPORT INFORMATION

Note:
Limited quantity (LQ) exception is possible

DOT
UN/ID no.  
UN3264
Proper shipping name: Corrosive liquid, acidic, inorganic, n.o.s. (Hydrochloric acid solution)
Hazard Class: 8
Packing Group: II
Emergency Response Guide Number: 154

IATA
UN/ID no.: UN3264
Proper shipping name: Corrosive liquid, acidic, inorganic, n.o.s. (hydrochloric acid)
Hazard Class: 8
Packing Group: II

IMDG
UN/ID no.: UN3264
Proper shipping name: Corrosive liquid, acidic, inorganic, n.o.s. (hydrochloric acid)
Hazard Class: 8
Packing Group: II
EmS-No.: F-A, S-B
Marine pollutant: No

15. REGULATORY INFORMATION

International Inventories
TSCA: Complies
DSL/NDSL: Complies

Legend:
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 contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>SARA 313 - Threshold Values %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrochloric Acid - 7647-01-0</td>
<td>1.0</td>
</tr>
</tbody>
</table>

SARA 311/312 Hazard Categories

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Acute health hazard</th>
<th>Chronic Health Hazard</th>
<th>Fire hazard</th>
<th>Sudden release of pressure hazard</th>
<th>Reactive Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>

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)

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CWA - Reportable Quantities</th>
<th>CWA - Toxic Pollutants</th>
<th>CWA - Priority Pollutants</th>
<th>CWA - Hazardous Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrochloric Acid - 7647-01-0</td>
<td>5000 lb</td>
<td>-</td>
<td>-</td>
<td>X</td>
</tr>
</tbody>
</table>

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)

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Hazardous Substances RQs</th>
<th>CERCLA/SARA RQ</th>
<th>Reportable Quantity (RQ)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrochloric Acid - 7647-01-0</td>
<td>5000 lb</td>
<td>5000 lb</td>
<td>RQ 5000 lb final RQ</td>
</tr>
</tbody>
</table>

Page 7 / 8
US State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrochloric Acid</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>7647-01-0</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

U.S. EPA Label Information

EPA Pesticide Registration Number 5185-505-80306

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:

Difference between SDS and EPA Pesticide label
DANGER: CORROSIVE. Causes skin burns and irreversible eye damage. Harmful if swallowed or absorbed through skin. Do not get in eyes, on skin, or on clothing. Wear goggles or safety glasses, protective clothing, and rubber (or chemical-resistant) gloves. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse. Do not breathe vapor or fumes. Keep out of reach of children. CHEMICAL HAZARDS: Do not use with chlorine –type bleach or any other chemical products, to do so may release hazardous gases creating a risk of serious injury, including death.

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health hazards</th>
<th>Flammability</th>
<th>Instability</th>
<th>Physical and Chemical Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>Personal protection X</td>
</tr>
<tr>
<td>HMIS</td>
<td>Health hazards</td>
<td>Flammability</td>
<td>Physical hazards</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

Prepared By Regulatory Affairs
Revision Date 24-Apr-2015
Revision Note No information available
Disclaimer The information provided in this Material 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
1. PRODUCT AND COMPANY IDENTIFICATION

Item Number / Product code: 0098534 (1201-149)
Product name: PROFESSIONAL VANI-SOL® BULK DISINFECTANT WASHROOM CLEANER II
Validation / Revision Date: 11 August 2009
EPA Identifier: EPA Reg. Number: 777-66-675
Formula Number: 935-005
UPC Number and Size: 36241-00294 (1 gal.)

Product Description: Disinfectant Washroom Cleaner in a trigger spray.

Manufacturer: Reckitt Benckiser North America, Inc.
Morris Corporate Center IV
399 Interpace Parkway (P.O. Box 225)
Parsippany, New Jersey 07054-0225

Emergency Telephone Number: 1-800-228-4722 (U.S)

Transportation Emergencies: 1-800-424-9300 (U.S. & Canada) CHEMTREC
Outside the U.S. and Canada (North America), call: 703-527-3887

2. COMPOSITION / INFORMATION ON INGREDIENTS
3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:
WARNING:
CAUSES SUBSTANTIAL BUT TEMPORARY EYE INJURY.
DO NOT get in eyes or on clothing.
Wear goggles, faceshield or safety glasses.
Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using restroom.
Remove and wash contaminated clothing before re-use.
Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

KEEP OUT OF REACH OF CHILDREN

4. FIRST AID MEASURES

Inhalation: Move to fresh air.

Skin contact: If on skin or clothing, take off contaminated clothing. Rinse skin immediately with plenty of water for at least 15-20 minutes. Call a Poison Control Center or Doctor for treatment advice.

Eye contact: If in eyes, IMMEDIATELY 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.

Ingestion: If swallowed, Call a Poison Control Center or Doctor IMMEDIATELY for treatment advice. Have person sip a glass of water if able to swallow. DO NOT INDUCE VOMITING unless told to do so by the Poison Control Center or Doctor. Do not give anything by mouth to an unconscious person.

Notes to physician: No information available.

Aggravated Medical Conditions: No information available.

5. FIRE-FIGHTING MEASURES

Flash point: CLOSED CUP: Higher than 93.3° C (>200° F). [Tagliabue].

Flammability Limits in Air:
Lower: No information available.
Upper: No information available.

Autoignition temperature: No information available.

Suitable extinguishing media: As suitable for surrounding fire.

Extinguishing media which must not be used for safety reasons: No information available.

Product code: 0098534 (1201-149) Product name: PROFESSIONAL VANI-SOL® BULK DISINFECTANT WASHROOM CLEANER II
Specific hazards: See Section 3, Hazards Identification.

Unusual hazards: None known

Special protective equipment for firefighters: As in any fire, wear self-contained breathing apparatus, pressure-demand, MSHA / NIOSH (approved or equivalent) and full protective gear.

Specific methods: Standard procedure for chemical fires.

NFPA: Health: 1  Flammability: 0  Instability: 0
HMIS: Health: 1  Flammability: 0  Reactivity: 0

Key: Personal Protection Index = B. (Also see Sections 3 & 8)

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Ensure adequate ventilation.

Environmental precautions: Do not allow material to contaminate ground water system.

Methods for cleaning up: Small spills: Dilute with water and mop up, or absorb with an inert material and place in an appropriate waste disposal container.

Large spills: Contain and collect for later disposal according to local, provincial, state or federal regulations.

7. HANDLING AND STORAGE

Handling: Use with adequate ventilation.

Safe handling advice: DO NOT get in eyes or on clothing.
Wear protective eyewear, such as goggles, faceshield or safety glasses.
Wash thoroughly with soap and water after handling.
Remove and wash contaminated clothing before re-use.
Read the entire label before using this product.

Storage: Store in original container in areas inaccessable to small children and pets.
Refill container only with this product.
Discard in trash or recycle.

Incompatible products: Strong Bases (Alkaline)

EPA Registered Product: It is a violation of federal law to use this product in a manner inconsistent with its labeling.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure: For occupational exposures, ensure adequate ventilation.

Personal Protective Equipment

Respiratory protection: None required under normal use conditions.

Hand protection: None required for normal recommended use.
For sensitive skin or prolonged use, wear rubber gloves.
Emergency responders should wear impermeable gloves.

Product code: 0098534 (1201-149)  Product name: PROFESSIONAL VANI-SOL® BULK DISINFECTANT WASHROOM CLEANER II
Eye protection: Avoid contact with eyes. When handling in large quantities or responding to emergency situations, the use of appropriate eye protection is recommended. Emergency responders should wear full eye and face protection.

Skin and body protection: Usual safety precautions while handling the product will provide adequate protection against injury or irritation. Follow product label instructions. Emergency responders should wear impermeable clothing and footwear when responding to a situation where contact with the liquid is possible.

Hygiene measures: Washing with soap and water after use is recommended as good hygienic practice to prevent possible eye irritation from hand contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Water thin liquid.
Appearance: Clear.
Colour: Yellow.
Odour: Citrus.
Lemon.

pH: 10.5 - 11.5

Flash point: Greater than 93º C (>200º F)

Specific gravity: 0.9948 - 1.0048

Vapour pressure: Not determined.

Solubility: Completely soluble.

Explosion limits:
- upper: No data available.
- lower: No data available.

10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.

Polymerization: Hazardous polymerisation does not occur.

Hazardous decomposition products: Oxides of carbon and unknown organic compounds.

Materials to avoid: Do not mix with other household chemicals.

Conditions to avoid: Store away from excessive heat and moisture.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Component Information:

Product Information

LC50/inhalation/4h/rat = No information available.
LD50/dermal/rabbit = No information available.
LD50/oral/rat = No information available.

Local effects

Skin irritation: None expected during normal conditions of use.
**Eye irritation:**
Causes substantial but temporary eye injury. Do not get into eyes.

**Inhalation**
None expected during normal conditions of use.

**Ingestion**
Health injuries are not known or expected under normal use. See Section 4 for First Aid instructions.

**Sensitization**
Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

**Chronic toxicity:**
No information available.

**Specific effects**

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carcinogenic effects:</td>
<td>Not listed as carcinogenic by OSHA, NTP or IARC.</td>
</tr>
<tr>
<td>Mutagenic effects:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Reproductive toxicity:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Target organ effects:</td>
<td>No information available.</td>
</tr>
</tbody>
</table>

### 12. ECOLOGICAL INFORMATION

**Product Information**

**Aquatic toxicity:**
Not classified as toxic or harmful to the environment.

**Component Information:**

**Other information:**

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ozone depletion potential; ODP; (R-11 = 1) =</td>
<td>No information available.</td>
</tr>
<tr>
<td>Global warming potential (GWP) =</td>
<td>No information available.</td>
</tr>
</tbody>
</table>

**Additional ecological information:**
Bulk quantities, if spilled, may be toxic to aquatic organisms, fish, birds and mammals. Control and clean up all exterior spills and prevent liquid from entering any streams, rivers, lakes and all other bodies of water.

### 13. DISPOSAL CONSIDERATIONS

**Waste from residues / unused products:**
Dispose of in accordance with local regulations.

**Contaminated packaging:**
Do not re-use empty containers. Empty container can be disposed of as household trash or rinsed and recycled where appropriate.

**Waste Disposal:**
Small amounts of liquid waste: Wipe up with a wet paper towel and discard absorbed material in trash collection or flush waste to sink or sanitary sewer.

Large quantities of waste liquid: Contain and collect for evaluation and disposal according to local, state, provincial and federal regulations.
14. TRANSPORT INFORMATION

UN / Id No: Not applicable

DOT:
- Classification: Not a DOT regulated material. (United States)
- Proper shipping name: Not applicable.
- U.S. DOT - Hazard Class: Not applicable.
- Subsidiary risk: Not applicable.
- Packing Group: Not applicable.
- DOT RQ (lbs): Not applicable.
- ERG No: Not applicable.

TDG (Canada):
- Classification: Not regulated under TDG
- Proper shipping name: Not applicable.
- Status: Not applicable.
- Packing Group: Not applicable.

IMDG / IMO:
- Classification: Not regulated under IMDG
- Proper shipping name: Not applicable.
- Class: Not applicable.
- Subsidiary Risk: Not applicable.
- Packing group: Not applicable.
- IMDG page: Not applicable.
- Marine pollutant: Not applicable.
- EMS: Not applicable.
- MFAG: Not applicable.

ADR / RID:
- Classification: Not applicable.
- Proper shipping name: Not applicable.
- Class: Not applicable.
- Subsidiary risk: Not applicable.
- ADR/RID-labels: Not applicable.
- Hazard Identification Number: Not applicable.
- CEFIC Tremcard No: Not applicable.

ICAO / IATA:
- Classification: Not regulated under ICAO / IATA
- Proper shipping name: Not applicable.
- Class: Not applicable.
- Subsidiary Risk: Not applicable.
- Packing Group: Not applicable.
- Maximum quantity: Not applicable.

15. REGULATORY INFORMATION

Components: LAURYLDIMETHAMINEOXIDE30% - 1643-20-5

<table>
<thead>
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<tbody>
<tr>
<td>LAURYLDIMETHAMINEOXIDE30%</td>
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<td>216-700-6</td>
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<td>BENZALKONIUM CHLORIDE</td>
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<td>Present</td>
<td>Present</td>
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<td>270-325-2</td>
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</table>

U.S. Regulations:

Components: LAURYLDIMETHAMINEOXIDE30% - 1643-20-5
**Canada**

| WHMIS hazard class: | Not a WHMIS controlled product. |

**16. OTHER INFORMATION**

<p>| National Fire Protection Association (U.S.A.): |</p>
<table>
<thead>
<tr>
<th>HMIS (U.S.A.):</th>
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<tbody>
<tr>
<td>Health Hazard</td>
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<tr>
<td>Fire Hazard</td>
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<tr>
<td>Reactivity</td>
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</tr>
<tr>
<td>Personal Protection</td>
<td>B</td>
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</tbody>
</table>

**Reason for revision:** This is a PSDS for State / EPA Registration submission, not to be used for distribution with the final retail product.

**Additional advice:** This product should only be used as directed on the label and for the purpose intended.

**Prepared by:** Reckitt Benckiser Regulatory Department

**Disclaimer:** To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.
DO NOT ENTER

CLEANING IN PROGRESS

AREA IS BEING DISINFECTED

CHEMICALS IN USE