# SAFETY DATA SHEET

**Issuing Date** January 5, 2015 **Revision Date** New **Revision Number** 0

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

**Product identifier**

**Product Name** **Clorox Automatic Toilet Bowl Cleaner$_1$**

**Other means of identification**

**EPA Registration Number** 5813-65

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

**Recommended Use** Sanitizing toilet bowl cleaner

**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).

| | |
|---|---|
| Acute toxicity - Oral | Category 4 |
| Skin corrosion/irritation | Category 1B |
| Serious eye damage/eye irritation | Category 1 |
| Skin sensitization | Category 1 |
| Reproductive toxicity | Category 1B |
| Oxidizing solids | Category 2 |

### GHS Label elements, including precautionary statements

**Emergency Overview**

**Signal word** **Danger**

**Hazard statements**
Harmful if swallowed
Causes severe skin burns and eye damage
May cause an allergic skin reaction
May damage fertility or the unborn child
May intensify fire; oxidizer

**Appearance** White **Physical State** Solid **Odor** Slight chlorine

**Precautionary Statements - Prevention**
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Contaminated work clothing should not be allowed out of the workplace
Keep away from heat/sparks/open flames/hot surfaces - No smoking
Keep/Store away from clothing/ other combustible materials
Take any precaution to avoid mixing with combustibles
Keep only in original container

**Precautionary Statements - Response**
Immediately call a POISON CENTER or doctor/physician
Specific treatment (see supplemental first aid instructions on this label)

**Eyes**
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Immediately call a POISON CENTER or doctor/physician

**Skin**
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
If skin irritation or rash occurs: Get medical advice/attention

**Inhalation**
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

**Ingestion**
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
Rinse mouth. Do NOT induce vomiting

**Fire**
In case of fire: Use CO2, dry chemical, or foam for extinction

**Spill**
Absorb spillage to prevent material damage

**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

**Unknown Toxicity**
0% of the mixture consists of ingredient(s) of unknown toxicity

**Other information**
Toxic to aquatic life
Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

**Interactions with Other Chemicals**
Reacts with other household chemicals such as acid toilet bowl cleaners, rust removers, acids, vinegar, and ammonia-containing products to produce hazardous gases, such as chlorine/bromine and other chlorinated/brominated compounds. Avoid contact with strong alkalis.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS-No | Weight % | Trade Secret |
|---|---|---|---|
| 2,4-Imidazolidinedione, 1-bromo-3-chloro-5,5-dimethyl- | 16079-88-2 | 40 - 60 | * |
| 1,3-Dichloro-5,5-dimethyl hydantoin | 118-52-5 | 20 - 30 | * |
| Boric acid | 10043-35-3 | 10 - 20 | * |
| 2,4-Imidazolidinedione, 1,3-dichloro-5-ethyl-5-methyl- | 89415-87-2 | 7 - 15 | * |

* The exact percentage (concentration) of composition has been withheld as a trade secret

## 4. FIRST AID MEASURES

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**First aid measures**

**General Advice** Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

**Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Seek immediate medical attention/advice. Remove contact lenses, if applicable, and continue flushing.

**Skin Contact** Wash off immediately with soap and plenty of water for at least 15 minutes. IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes If skin irritation persists, call a physician. For severe burns, immediate medical attention is required.

**Inhalation** Move to fresh air. If not breathing, give artificial respiration. Administer oxygen if breathing is difficult and you are trained.

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

**Protection of First-aiders** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

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

**Most Important Symptoms/Effects** Burning sensation. Coughing and/ or wheezing. Difficulty in breathing. Itching. Rashes. Hives.

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

**Notes to Physician** Treat symptomatically. 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. May cause sensitization of susceptible persons.

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**
Use water. Do not use dry chemicals or foams. $CO_2$ or Halon may provide limited control. Flood fire area with water from a distance. Move containers from fire area if you can do it without risk. Cool containers with flooding quantities of water until well after fire is out.

**Unsuitable Extinguishing Media**
CAUTION: Use of water spray when fighting fire may be inefficient.

**Specific Hazards Arising from the Chemical**
These substances will accelerate burning when involved in a fire. Some may decompose explosively when heated or involved in a fire. May ignite combustibles (wood paper, oil, clothing, etc.). Runoff may create fire or explosion hazard.

**Hazardous Combustion Products**
Carbon oxides.

**Explosion Data**
**Sensitivity to Mechanical Impact** No

**Sensitivity to Static Discharge** Yes

**Protective Equipment and Precautions for Firefighters**
Do not move cargo or vehicle if cargo has been exposed to heat. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. ALWAYS stay away from tanks engulfed in fire. For massive fire, use unmanned hose holders or monitor; if this is impossible, withdraw from area and let fire burn.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Attention! Corrosive material. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Use personal protective equipment. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid dust formation. Do not breathe dust ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Refer to Section 8 Stop leak if you can do it without risk.

**Other Information** DO NOT GET WATER INSIDE CONTAINERS.

**Environmental precautions**

**Environmental Precautions** Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not allow material to contaminate ground water system. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.

**Methods and material for containment and cleaning up**

**Methods for Containment** Prevent further leakage or spillage if safe to do so. Cover with DRY earth, DRY sand, or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain.

**Methods for Cleaning Up** With clean shovel place material into clean, dry container and cover loosely; move containers from spill area. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Dike far ahead of liquid spill for later disposal. Following product recovery, flush area with water.

## 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. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation at machinery. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Avoid dust formation. Fine dust dispersed in air may ignite. Wear personal protective equipment. Keep away from heat, sparks and open flame. No smoking. Do not breathe dust

**Conditions for safe storage, including any incompatibilities**

**Storage**

Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Store locked up. Keep out of the reach of children. Store away from other materials. Keep away from heat and sources of ignition. Keep in properly labeled containers. Do not store near combustible materials. Store in accordance with the particular national regulations. Store in accordance with local regulations.

**Incompatible Products**

Acids. Bases. Organic material. Combustible materials. Hydrocarbons.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

**Exposure Guidelines**

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---|---|---|---|
| 1,3-Dichloro-5,5-dimethyl hydantoin<br>118-52-5 | STEL: 0.4 mg/m$^3$<br>TWA: 0.2 mg/m$^3$ | TWA: 0.2 mg/m$^3$ | IDLH: 5 mg/m$^3$<br>TWA: 0.2 mg/m$^3$<br>STEL: 0.4 mg/m$^3$ |
| Boric acid (H3BO3)<br>10043-35-3 | TWA: 2 mg/m$^3$ inhalable fraction<br>STEL: 6 mg/m$^3$ inhalable fraction | - | - |

*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**

Face-shield.

**Skin and Body Protection**

Wear protective gloves/clothing. Long sleeved clothing. Chemical resistant apron. Impervious gloves. Wear fire/flame resistant/retardant clothing.

**Respiratory Protection**

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Avoid contact with skin, eyes and clothing. Wear suitable gloves and eye/face protection. Contaminated work clothing should not be allowed out of the workplace. Provide regular cleaning of equipment, work area and clothing. Wash hands before breaks and immediately after handling the product. For environmental protection, remove and wash all contaminated protective equipment before re-use. Do not breathe dust

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical and Chemical Properties**

| | | | |
|---|---|---|---|
| **Physical State** | Solid | | |
| **Appearance** | White | **Odor** | Slight chlorine |
| **Color** | No information available | **Odor Threshold** | No information available |

| **Property** | **Values** | **Remarks/ Method** |
|---|---|---|
| **pH** | No data available | None known |
| **Melting/freezing point** | No data available | None known |
| **Boiling Point/Range** | No data available | None known |
| **Flash Point** | No data available | None known |
| **Evaporation rate** | No data available | None known |
| **Flammability (solid, gas)** | No data available | None known |
| **Flammability Limits in Air** | | |
| **Upper flammability limit** | No data available | |
| **Lower flammability limit** | No data available | |
| **Vapor pressure** | No data available | None known |
| **Vapor density** | No data available | None known |
| **Specific Gravity** | No data available | None known |
| **Water Solubility** | Liquid | None known |
| **Solubility in other solvents** | No data available | None known |
| **Partition coefficient: n-octanol/water** | No data available | None known |
| **Autoignition temperature** | No data available | None known |
| **Decomposition temperature** | No data available | None known |
| **Kinematic viscosity** | No data available | None known |
| **Dynamic viscosity** | No data available | None known |
| **Explosive Properties** | No data available | |
| **Oxidizing Properties** | No data available | |

**Other Information**

| | |
|---|---|
| **Softening Point** | No data available |
| **VOC Content (%)** | No data available |

## 10. STABILITY AND REACTIVITY

**Reactivity**
Oxidizer.

**Chemical stability**
Stable under recommended storage conditions. Strong oxidizer. Contact with other material may cause fire.

**Possibility of Hazardous Reactions**
Reacts with other household chemicals such as acid toilet bowl cleaners, rust removers, acids, vinegar, and ammonia-containing products to produce hazardous gases, such as chlorine/bromine and other chlorinated/brominated compounds.

**Hazardous Polymerization**
Hazardous polymerization does not occur.

**Conditions to avoid**
Exposure to air or moisture over prolonged periods. Excessive heat. Heat, flames and sparks. Incompatible products. Heating in air. Dust formation.

**Incompatible materials**
Acids. Bases. Organic material. Combustible materials. Hydrocarbons.

**Hazardous Decomposition Products**
Carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

**Product Information**

**Inhalation** There is no data available for this product. Corrosive by inhalation (based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs. Pulmonary edema can be fatal. May cause irritation of respiratory tract. Harmful by inhalation.

**Eye Contact** There is no data available for this product. Causes burns. (based on components). Corrosive to the eyes and may cause severe damage including blindness. Causes serious eye damage. May cause irreversible damage to eyes.

**Skin Contact** There is no data available for this product. Corrosive. (based on components) Causes burns.

**Ingestion** There is no data available for this product. Causes burns (based on components). Ingestion causes burns of the upper digestive and respiratory tract. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking May cause lung damage if swallowed. May be fatal if swallowed and enters airways. Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May be harmful if swallowed.

| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|---|---|---|---|
| Boric acid<br>10043-35-3 | = 2660 mg/kg ( Rat ) | > 2000 mg/kg ( Rabbit ) | > 0.16 mg/L ( Rat ) 4 h |

**Information on toxicological effects**

**Symptoms** Redness of the skin. Burning. May cause blindness. Coughing and/ or wheezing. Itching. Rashes. Hives.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Sensitization** May cause sensitization of susceptible persons. May cause sensitization by skin contact. May cause sensitization by inhalation.

**Mutagenic Effects** No information available.

**Carcinogenicity** No information available.

**Reproductive Toxicity** Contains a known or suspected reproductive toxin.
**STOT - single exposure** No information available.
**STOT - repeated exposure** No information available.
**Chronic Toxicity** No known effect based on information supplied. Chronic exposure to corrosive fumes/gases may cause erosion of the teeth followed by jaw necrosis. Bronchial irritation with chronic cough and frequent attacks of pneumonia are common. Gastrointestinal disturbances may also be seen. Effects from this product caused by acute exposure may cause permanent damage to target organs and/or may cause chronic conditions. Contains a known or suspected reproductive toxin. Possible risks of irreversible effects.
**Target Organ Effects** Respiratory system. Eyes. Skin. Gastrointestinal tract (GI). Reproductive system. Digestive System. Kidney.
**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)**
760.00 mg/kg
**ATEmix (inhalation-gas)**
7,000.00
ppm (4 hr)
**ATEmix (inhalation-dust/mist)**
5.01 mg/L
**ATEmix (inhalation-vapor)**
30.00ATEmix

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**
Toxic to aquatic organisms

**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

**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** | UN1479 |
| **Proper Shipping Name** | OXIDIZING SOLID, N.O.S. |
| **Hazard Class** | 5.1 |
| **Packing Group** | II |
| **Description** | UN1479, OXIDIZING SOLID, N.O.S. (1-BROMO-3-CHLORO-5,5-DIMETHYL-2,4-IMIDAZOLIDINEDIONE ), 5.1, II |

**ICAO**

| | |
|---|---|
| **UN-No** | UN1479 |
| **Proper Shipping Name** | OXIDIZING SOLID, N.O.S. |
| **Hazard Class** | 5.1 |
| **Packing Group** | II |
| **Description** | UN1479, OXIDIZING SOLID, N.O.S. (1-BROMO-3-CHLORO-5,5-DIMETHYL-2,4-IMIDAZOLIDINEDIONE ), 5.1, II |

**IATA**

| | |
|---|---|
| **UN-No** | UN1479 |
| **Proper Shipping Name** | OXIDIZING SOLID, N.O.S. |
| **Hazard Class** | 5.1 |
| **Packing Group** | II |
| **Description** | UN1479, OXIDIZING SOLID, N.O.S. (1-BROMO-3-CHLORO-5,5-DIMETHYL-2,4-IMIDAZOLIDINEDIONE ), 5.1, II |

**IMDG/IMO**

| | |
|---|---|
| **UN-No** | UN1479 |
| **Proper Shipping Name** | OXIDIZING SOLID, N.O.S. |
| **Hazard Class** | 5.1 |
| **Packing Group** | II |
| **EmS No.** | F-A, S-Q |
| **Description** | UN1479, OXIDIZING SOLID, N.O.S. (1-BROMO-3-CHLORO-5,5-DIMETHYL-2,4-IMIDAZOLIDINEDIONE ), 5.1, II |

## 15. REGULATORY INFORMATION

### International Inventories

| | |
|---|---|
| TSCA | Complies |
| DSL | All components are listed either on the DSL or NDSL. |

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

## 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** | Yes |
| **Fire Hazard** | Yes |
| **Sudden Release of Pressure Hazard** | Yes |
| **Reactive Hazard** | Yes |

### 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.

## U.S. State Regulations

### California Proposition 65

This product does not contain any Proposition 65 chemicals.

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

| Chemical Name | New Jersey | Massachusetts | Pennsylvania | Rhode Island | Illinois |
|---|---|---|---|---|---|
| 1,3-Dichloro-5,5-dimethyl hydantoin<br>118-52-5 | X | X | X | | |

### 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:** Highly corrosive. May be fatal if swallowed. **DO NOT TAKE INTERNALLY**. Causes eye and skin damage. Irritating to nose and throat. Avoid breathing dust. Do not get into eyes, on skin or clothing. Wear rubber gloves when handling, and wash thoroughly after handling.

## International Regulations

**Canada**
**WHMIS Hazard Class**
C - Oxidizing materials
D2A - Very toxic materials
E - Corrosive material
B - Flammable/Combustible Materials

## 16. OTHER INFORMATION

| | | | | |
|---|---|---|---|---|
| **NFPA** | **Health Hazard** 3 | **Flammability** 1 | **Instability** 1 | **Physical and Chemical Hazards** OX |
| **HMIS** | **Health Hazard** 3* | **Flammability** 1 | **Physical Hazard** 1 | **Personal Protection** X |

***Chronic Hazard Star Legend*** **Indicates a chronic health hazard.*

**Prepared By**

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

**Revision Date** New

**Revision Note** New

**Reference** 1025051/51004.001

**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**