

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 Commercial Solutions® Green Works® 99% Naturally Derived Bathroom

Cleaner - Concentrate

Other means of identification

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Bathroom cleaner concentrate for use in the Clorox® EZ Dilute™ system

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Address

Clorox Professional Products Company 1221 Broadway Oakland, CA 94612

Phone: 1-510-271-7000

Emergency telephone number

Emergency Phone Numbers For Medical Emergencies call: 1-800-446-1014

For Transportation Emergencies, call Chemtrec: 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

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

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A

GHS Label elements, including precautionary statements

Emergency Overview

Signal word Warning

Hazard Statements

Causes skin irritation Causes serious eve irritation



Appearance Clear-to-slightly-hazy, orange

Physical State Thin liquid

Odor Lemon

Precautionary Statements - Prevention

Wash hands and any exposed skin thoroughly after handling. Wear protective gloves such as rubber or neoprene gloves.

Wear eye protection such as safety glasses.

Precautionary Statements - Response

If on skin: Wash with plenty of water.

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

If skin irritation occurs: Get medical attention.

Take off contaminated clothing and wash it before reuse.

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

Precautionary Statements - Storage

None.

Precautionary Statements - Disposal

None.

Hazards not otherwise classified (HNOC)

Not applicable

Unknown Toxicity

8.6% of the mixture consists of ingredients of unknown toxicity

Other information

Harmful to aquatic life.

Interactions with Other Chemicals

Reacts with products containing sodium hypochlorite to produce hazardous gases, such as chlorine and other chlorinated compounds.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight %	Trade Secret
Citric acid	77-92-9	7 - 13	*
Caprylyl/capryl oligoglucoside	68515-73-1	3 - 7	*
D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	110615-47-9	1 - 5	*

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

4. FIRST AID MEASURES

First aid measures

General Advice Show this safety data sheet to the doctor in attendance.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove contact lenses if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and

persists.

Skin Contact Take off contaminated clothing. Wash with plenty of water. Get medical attention if

irritation develops and persists.

Inhalation Move to fresh air. If breathing is affected, get medical advice/attention.

Ingestion Drink a glassful of water. Call a poison control center or doctor immediately. DO NOT

induce vomiting unless told to do so by a poison control center or doctor.

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

Wear personal protective clothing (see section 8).

Most important symptoms and effects, both acute and delayed

Most Important Symptoms and

Stinging and irritation of eyes. Irritation of skin.

Effects

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

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

Unsuitable Extinguishing Media

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

Specific Hazards Arising from the Chemical

No information available.

Explosion Data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Avoid contact with skin, eyes, or clothing. Use personal protective equipment as required.

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

Environmental precautions

Environmental Precautions Prevent further leakage or spillage if safe to do so. 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

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with Handling

skin, eyes, or clothing. Do not eat, drink, or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible Products Products containing sodium hypochlorite.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Citric acid 77-92-9	None	None	None
Caprylyl/capryl oligoglucoside 68515-73-1	None	None	None
D-Glucopyranose, oligomeric, C10-16-alkyl glycosides 110615-47-9	None	None	None

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

Appropriate engineering controls

Engineering Measures Showers

Eyewash stations Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face Protection If splashes are likely to occur: Wear goggles or safety glasses with side shields.

Skin and Body Protection Wear rubber of neoprene 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.

Hygiene Measures Wash hands after direct contact. 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

Physical State Thin liquid

Appearance Clear-to-slightly hazy Odor Lemon

Color Orange **Odor Threshold** No information available

Remarks/ Method **Property Values**

Ha 1.5 - 2.5None known pH (diluted solution - 1:32) 2 - 3 None known

Melting / freezing point No data available

Boiling point / boiling range No data available None known Flash Point Not flammable None known **Evaporation Rate** No data available None known Flammability (solid, gas) No data available None known

Flammability Limit in Air

Upper flammability limit No data available None known Lower flammability limit No data available None known Vapor pressure No data available None known Vapor density No data available None known **Specific Gravity** ~1.0 None known **Water Solubility** Soluble 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** Not explosive

Oxidizing Properties No data available

Other Information

Softening Point No data available **VOC Content (%)** No data available **Particle Size** No data available **Particle Size Distribution** No data available

10. STABILITY AND REACTIVITY

Reactivity

Reacts with products containing sodium hypochlorite to produce hazardous 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.

Incompatible materials

Products containing sodium hypochlorite.

Hazardous Decomposition Products

None known.

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 May cause skin irritation.

Ingestion Ingestion may cause irritation to mucous membranes and gastrointestinal tract, nausea,

vomiting, and diarrhea.

Component Information No information available.

Information on toxicological effects

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

Contains no ingredients listed as a carcinogen. Carcinogenicity

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

No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Citric acid		LC50: 1516 mg/L (96 h		EC50: 120 mg/L (72 h)
77-92-9		static) Lepomis macrochirus		Daphnia magna

Persistence and Degradability

No information available.

Bioaccumulation

Chemical Name	Log Pow
Citric acid	-1.72
77-92-9	-1.72

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.

IATA Not regulated.

IMDG/IMO Not regulated.

15. REGULATORY INFORMATION

International 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

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product 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

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

This product does not contain any substances known to be subject to state right-to-know regulations.

International Regulations

Canada **WHMIS Hazard Class** D2B - Toxic materials



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16. OTHER INFORMATION

NFPA Health Hazards 2 Flammability 0 Instability 0 Physical and Chemical Hazards -

Health Hazards 2 Flammability 0 Physical Hazard 0 Personal Protection B **HMIS**

Prepared By Product Stewardship

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1-800-572-6501

Preparation/Revision Date January 5, 2015

Revision Note New

Reference CLX124768-001/124768.001

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