



# SAFETY DATA SHEET

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Revision Number 1 0

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

### Product identifier

**Product Name** Clorox Commercial Solutions® Clorox® Professional Multi-Purpose Cleaner & Degreaser Concentrate

### Other means of identification

**Synonyms** None

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

**Recommended Use** Cleaner degreaser concentrate

**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
Flammable liquids	Category 4

**GHS Label elements, including precautionary statements**

**Emergency Overview**

<b>Signal word</b>	<b>Warning</b>		
<b>Hazard Statements</b> Causes skin irritation Causes serious eye irritation Combustible liquid			
			
<b>Appearance</b> Clear, green	<b>Physical State</b> Thin liquid	<b>Odor</b> Lemon, citrus	

**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
 Wear protective gloves/protective clothing/eye protection/face protection  
 Keep away from flames and hot surfaces. - No smoking  
 Keep only in original container

**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 advice/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 advice/attention.  
 In case of fire: Use dry chemical, carbon dioxide, foam, or water spray to extinguish

**Precautionary Statements - Storage**

Store in a well-ventilated place. Keep cool

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal in accordance with all applicable federal, state, and local regulations.

**Hazards not otherwise classified (HNOC)**

Not applicable

**Unknown Toxicity**

3.1% of the mixture consists of ingredient(s) of unknown toxicity

**Other information**

Harmful to aquatic life.

**Interactions with Other Chemicals**

No information available.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS No.	Weight-%	Trade Secret
Propylene glycol propyl ether	1569-01-3	1 - 5	*
Ethanolamine	141-43-5	1 - 5	*
Dodecylbenzenesulfonic acid, monoethanolamine salt	27176-87-0	1 - 5	*
Butoxydiglycol	112-34-5	1 - 5	*
Tetrapotassium EDTA	5964-35-2	1 - 5	*
Alcohols, C10-14, ethoxylated	66455-15-0	1 - 5	*

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

**4. FIRST AID MEASURES****First aid measures**

<b>General Advice</b>	Show this safety data sheet to the doctor in attendance.
<b>Eye Contact</b>	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.
<b>Skin Contact</b>	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.
<b>Inhalation</b>	Move to fresh air. If breathing is affected, call a doctor.
<b>Ingestion</b>	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.
<b>Self-protection of the first aider</b>	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required. Wear personal protective clothing (see section 8).

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

<b>Most Important Symptoms and Effects</b>	Burning sensation.
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**Indication of any immediate medical attention and special treatment needed**

<b>Notes to Physician</b>	Treat symptomatically.
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**5. FIRE-FIGHTING MEASURES**

**Suitable Extinguishing Media**

Dry chemical, carbon dioxide, foam, or water spray

**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. Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains. Refer to protective measures listed in Sections 7 and 8.

**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**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethanolamine 141-43-5	STEL: 6 ppm TWA: 3 ppm	TWA: 3 ppm TWA: 6 mg/m <sup>3</sup>	IDLH: 30 ppm TWA: 3 ppm TWA: 8 mg/m <sup>3</sup> STEL: 6 ppm STEL: 15 mg/m <sup>3</sup>

*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**                      Wear safety glasses with side shields (or goggles).

**Skin and Body Protection**                      Wear protective gloves and protective clothing. Long-sleeved clothing. Chemical resistant apron.

**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**                              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

### Physical and Chemical Properties

<b>Physical State</b> <b>Appearance</b> <b>Color</b>	Thin liquid Clear Green	<b>Odor</b> <b>Odor Threshold</b>	Lemon, citrus No information available
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Property	Values	Remarks/Method
pH	10 - 11	None known
Melting / freezing point	No data available	None known
Boiling point / boiling range	No data available	None known
Flash Point	67°C	CC (closed cup)
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	
Lower flammability limit	No data available	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Specific Gravity	~1.0	None known
Water Solubility	Soluble in water	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

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

Exposure to air or moisture over prolonged periods. Heat, flames and sparks.

### Incompatible materials

Acids. Bases. Oxidizing agent.

### Hazardous Decomposition Products

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

<b>Inhalation</b>	Exposure to vapor or mist may irritate respiratory tract.
<b>Eye Contact</b>	Causes serious eye irritation.
<b>Skin Contact</b>	Causes skin irritation.
<b>Ingestion</b>	Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

#### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Ethanolamine 141-43-5	1.72 g/kg (Rat)	1 mL/kg (Rabbit)	-
Butoxydiglycol 112-34-5	3.4 g/kg (Rat)	2.7 g/kg (Rabbit)	-

### Information on toxicological effects

**Symptoms** Causes serious eye irritation and skin irritation.

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

<b>Sensitization</b>	No information available.
<b>Mutagenic Effects</b>	No information available.
<b>Carcinogenicity</b>	Contains no ingredient listed as a carcinogen.
<b>Reproductive Toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Chronic Toxicity</b>	No information available.
<b>Target Organ Effects</b>	Respiratory system, eyes, skin, gastrointestinal tract (GI).
<b>Aspiration Hazard</b>	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)**

13.6 g/kg

**ATEmix (dermal)**

12.1 g/kg (ATE)

**ATEmix (inhalation-dust/mist)**

56.8 mg/L

**ATEmix (inhalation-vapor)**

417.00 ATEmix

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Harmful to aquatic life.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Ethanolamine 141-43-5	EC50: 15 mg/L (72 h ) Desmodesmus subspicatus	LC50: 227 mg/L (96 h flow-through) Pimephales promelas LC50: 3684 mg/L (96 h static) Brachydanio rerio LC50: 300-1000 mg/L (96 h static) Lepomis macrochirus LC50: 114-196 mg/L (96 h static) Oncorhynchus mykiss LC50: > 200 mg/L (96 h flow-through) Oncorhynchus mykiss	EC50 = 110 mg/L 17 h EC50 = 12200 mg/L 2 h EC50 = 13.7 mg/L 30 min	EC50: 65 mg/L (48 h ) Daphnia magna
Butoxydiglycol 112-34-5	EC50: > 100 mg/L (96 h ) Desmodesmus subspicatus	LC50: 1300 mg/L (96 h static) Lepomis macrochirus		EC50: 2850 mg/L (24 h ) Daphnia magna EC50: > 100 mg/L (48 h ) Daphnia magna

### Persistence and Degradability

No information available.

### Bioaccumulation

Chemical Name	Log Pow
Ethanolamine 141-43-5	-1.91

### Other adverse effects

No information available.

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

#### **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

<b><u>DOT</u></b>	Not regulated
<b><u>TDG</u></b>	Not regulated
<b><u>ICAO</u></b>	Not regulated
<b><u>IATA</u></b>	Not regulated
<b><u>IMDG/IMO</u></b>	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 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 contains the following chemical that is subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS No.	Weight-%	SARA 313 - Threshold Values %
Butoxydiglycol - 112-34-5	112-34-5	1 - 5	1.0

**SARA 311/312 Hazard Categories**

Acute Health Hazard Yes  
 Chronic Health Hazard No  
 Fire Hazard Yes  
 Sudden release of pressure hazard No  
 Reactive Hazard No

**CWA (Clean Water Act)**

This product does not contain any substances that are regulated 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 a hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

**US State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Ethanolamine 141-43-5	X	X	X		X
Butoxydiglycol 112-34-5			X	X	X

**International Regulations**

**Canada**

**WHMIS Hazard Class**

B3 - Combustible liquid

D2B Toxic Materials



**16. OTHER INFORMATION**

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

**Prepared By** Product Stewardship  
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**Preparation/Revision Date** February 7, 2019

**Revision Note** Various updates

**Reference** CLX167372-001/167372.001

**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**