



# SAFETY DATA SHEET

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

### Product identifier

**Product Name** Green Works® Laundry Detergent - 96% Naturally Derived - Original

### Other means of identification

**Synonyms** None

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

**Recommended Use** Laundry detergent

**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).

Serious eye damage/eye irritation	Category 2A
Germ cell mutagenicity	Category 2
Reproductive toxicity	Category 1B

### GHS Label elements, including precautionary statements

#### Emergency Overview

<b>Signal word</b>	<b>Danger</b>	
<b>Hazard statements</b>	Causes serious eye irritation Suspected of causing genetic effects May damage fertility or the unborn child	
		
<b>Appearance</b>	Clear, green	<b>Physical State</b> Viscous liquid
		<b>Odor</b> Grapefruit, citrus, green

### Precautionary Statements - Prevention

Obtain special instructions before use.  
 Do not handle until all safety precautions have been read and understood.  
 Wash hands and any exposed skin thoroughly after handling.  
 Wear eye protection/face protection such as safety glasses.

### Precautionary Statements - Response

If exposed or concerned: Get medical advice.  
 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

Store locked up.

### Precautionary Statements - Disposal

Dispose of contents in accordance with all applicable federal, state, and local regulations.

### Hazards not otherwise classified (HNOC)

No information available.

### Unknown Toxicity

11% of the mixture consists of ingredient(s) of unknown toxicity

### Other information

Harmful to aquatic life with long lasting effects.

### Interactions with Other Chemicals

None known.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight %	Trade Secret
D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	110615-47-9	5 - 10	*
Sodium lauryl sulfate	151-21-3	1 - 5	*
Glycerin	56-81-5	1 - 5	*
Boric acid	11113-50-1	0.5 - 2	*
Oleic acid	112-80-1	0.5 - 2	*
Sodium octyl sulfate	142-31-4	0.5 - 2	*
Sodium borate	1330-43-4	0.5 - 2	*
Protease enzyme	9014-01-1	<0.1%	*
Amylase enzyme	9000-90-2	<0.1%	*

\* 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>	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. Get medical attention immediately if irritation persists.
<b>Skin Contact</b>	Rinse skin with plenty of water. If irritation persists, call a doctor.
<b>Inhalation</b>	Move to fresh air. If breathing is affected, call a doctor.
<b>Ingestion</b>	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.

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

**Most Important Symptoms/Effects** Stinging and irritation of eyes.

#### 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.

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## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

<b>Personal Precautions</b>	Avoid contact with eyes.
<b>Other Information</b>	Refer to protective measures listed in Sections 7 and 8.

### Environmental precautions

<b>Environmental Precautions</b>	See Section 12 for additional ecological Information
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### Methods and material for containment and cleaning up

<b>Methods for Containment</b>	Prevent further leakage or spillage if safe to do so.
<b>Methods for Cleaning Up</b>	Absorb and containerize. Wash residual down to sanitary sewer. Contact the sanitary treatment facility in advance to assure ability to process washed-down material.

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## 7. HANDLING AND STORAGE

### Precautions for safe handling

<b>Handling</b>	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.
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### Conditions for safe storage, including any incompatibilities

<b>Storage</b>	Keep containers tightly closed in a dry, cool, and well-ventilated place.
<b>Incompatible Products</b>	None known.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
D-Glucopyranose, oligomeric, C10-16-alkyl glycosides 110615-47-9	None	None	None
Sodium lauryl sulfate 151-21-3	None	None	None
Glycerin 56-81-5	TWA: 10 mg/m <sup>3</sup> mist	TWA: 15 mg/m <sup>3</sup> mist, total particulate TWA: 5 mg/m <sup>3</sup> mist, respirable fraction	-
Boric acid 1113-50-1	STEL: 6 mg/m <sup>3</sup> inhalable fraction <sup>a</sup> TWA: 2 mg/m <sup>3</sup> inhalable fraction <sup>a</sup>	None	None
Oleic acid 112-80-1	None	None	None
Sodium octyl sulfate 142-31-4	None	None	None
Sodium borate 1330-43-4	STEL: 6 mg/m <sup>3</sup> inhalable fraction <sup>a</sup> TWA: 2 mg/m <sup>3</sup> inhalable fraction <sup>a</sup>	None	TWA: 1 mg/m <sup>3</sup>
Protease enzyme 9014-01-1	TLV-C <sup>b</sup> : 0.06 µg/m <sup>3</sup>	None	None
Amylase enzyme 9000-90-2	None	None	None

<sup>a</sup>Listed under borate compounds, inorganic. <sup>b</sup>Limit for pure crystalline subtilisin  
 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 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. Wash hands after direct contact.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical and Chemical Properties

<b>Physical State</b>	Viscous liquid	<b>Odor</b>	Grapefruit, citrus, green
<b>Appearance</b>	Clear	<b>Odor Threshold</b>	No information available
<b>Color</b>	Green		

<u>Property</u>	<u>Values</u>	<u>Remarks/ Method</u>
<b>pH</b>	8 - 9	None known
<b>Melting/freezing point</b>	No data available	None known
<b>Boiling Point/Range</b>	No data available	None known
<b>Flash Point</b>	No data available	None known
<b>Evaporation rate</b>	No data available	None known
<b>Flammability (solid, gas)</b>	No data available	None known
<b>Flammability Limits in Air</b>		
<b>Upper flammability limit</b>	No data available	None known
<b>Lower flammability limit</b>	No data available	None known
<b>Vapor pressure</b>	No data available	None known
<b>Vapor density</b>	No data available	None known
<b>Specific Gravity</b>	~1.0	None known
<b>Water Solubility</b>	Soluble in water.	None known
<b>Solubility in other solvents</b>	No data available	None known
<b>Partition coefficient: n-octanol/water</b>	No data available	None known
<b>Autoignition temperature</b>	No data available	None known
<b>Decomposition temperature</b>	No data available	None known
<b>Kinematic viscosity</b>	No data available	None known
<b>Dynamic viscosity</b>	~500 cP	None known
<b>Explosive Properties</b>	Not explosive	
<b>Oxidizing Properties</b>	No data available	

### Other Information

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

## 10. STABILITY AND REACTIVITY

### Reactivity

No data available.

### Chemical stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None known.

### Conditions to avoid

None known.

### Incompatible materials

None known.

### Hazardous Decomposition Products

None known.

## 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>	May cause eye irritation.
<b>Skin Contact</b>	Prolonged contact may cause irritation.
<b>Ingestion</b>	Ingestion may cause irritation to mucous membranes and gastrointestinal irritation, nausea, vomiting, and diarrhea.

#### Component information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium lauryl sulfate 151-21-3	1.3 g/kg (Rat)	0.58 g/kg (Rabbit)	>3.9 g/m <sup>3</sup> (Rat, 1 h)
Glycerin 56-81-5	-	>10 g/kg (Rabbit)	>570 mg/m <sup>3</sup> (Rat, 1 h)
Boric acid 11113-50-1	2.66 g/kg (Rat)	>2 g/kg (Rabbit)	>0.16 mg/L (Rat, 4 h)
Oleic acid 112-80-1	>5 g/kg (Rat)	-	-
Sodium borate 1330-43-4	2.4 g/kg (Rat)	>2 g/kg (Rabbit)	-

### Information on toxicological effects

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

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

<b>Sensitization</b>	No information available.
<b>Mutagenic Effects</b>	No information available.
<b>Carcinogenicity</b>	Contains no ingredients listed as a carcinogen.
<b>Reproductive Toxicity</b>	Contains known or suspected reproductive toxins (boric acid, sodium borate).
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Chronic Toxicity</b>	Contains a known or suspected mutagen. Contains a known or suspected reproductive toxin. Possible risks of irreversible effects.
<b>Target Organ Effects</b>	Respiratory system, eyes, skin, reproductive system, kidney. May affect the genetic material in germ cells (sperm and eggs).
<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)**  
12.4 g/kg  
**ATEmix (dermal)**  
35.6 g/kg  
**ATEmix (inhalation-dust/mist)**  
67 mg/L

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Harmful 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

<u>DOT</u>	Not regulated
<u>TDG</u>	Not regulated
<u>ICAO</u>	Not regulated
<u>IATA</u>	Not regulated
<u>IMDG/IMO</u>	Not regulated

## 15. REGULATORY INFORMATION

### Chemical Inventories

<b>TSCA</b>	All components of this product are either on the TSCA 8(b) Inventory or otherwise exempt from listing.
<b>DSL/NDSL</b>	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**

<b>Acute Health Hazard</b>	Yes
<b>Chronic Health Hazard</b>	Yes
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No



**Clean Water Act**

This product contains the following substance that is a regulated pollutant pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium hydroxide 1310-73-2	1000 lb			X

**CERCLA**

This material, as supplied, contains the following substance regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Sodium hydroxide 1310-73-2	1000 lb	-	RQ 1000 lb final RQ RQ 454 kg final RQ

**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
Glycerin 56-81-5	X	X	X		
Sodium hydroxide 1310-73-2	X	X	X	X	

**International Regulations****Canada****WHMIS Hazard Class**

D2A Very toxic material

D2B Toxic material



**16. OTHER INFORMATION**

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

*\*Indicates a chronic health hazard*

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**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**