

Safety Data Sheet

According to SS586:2014

Green Works 98% Naturally Derived Dishwashing Liquid - Original

Version 1.0

Printing date: 10/10/2014

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SDS Record Number: CSSS-TCO-010-115570

Section 1 Identification of the substance/mixture and of the company/undertaking

Product identifier:

Identification on the label/Trade name: Green Works 98% Naturally Derived Dishwashing Liquid - Original

Additional identification: Not available

Identification of the product: See section 3

Index Number: Not available

REACH registration No.: Not available

Relevant identified uses of the substance and uses advised against:

Identified uses:

Dishwasher detergent.

Uses advised against:

Not available.

Details of the supplier of the safety data sheet:

Supplier(Manufacturer): The Clorox Company

Address: 1221 Broadway
Oakland, CA, 94612
USA

Contact person(E-mail): -

Telephone: 1-510-271-7000

Fax: -

Emergency telephone Number:

For Medical Emergencies call: 1-800-446-1014

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

Available outside office hours? YES NO

Section 2 Hazards Identification

Classification of the substance/mixture:

GHS Classification	serious eye damage/eye irritation	category 2 A
	hazardous to the aquatic environment(CHRONIC)	category 3

label elements:

Hazard Pictograms:



Signal Word(S): Warning

Hazard Statement: Causes serious eye irritation.

Precautionary statement:

Harmful to aquatic life with long lasting effects.

Wash thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

Avoid release to the environment.

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.

Dispose of contents/container in corroding with local regulation.

Other hazards:

Not available.

Section 3 Composition/information on ingredients

Substance/Mixture: Mixture

Ingredient(s):

Chemical Name	Registration No.	CAS No.	EC No.	Concentration
Sodium lauryl sulfate	N/A	151-21-3	205-788-1	10-30 %
D-Glucopyranose, oligomeric, decyl octyl glycosides	N/A	68515-73-1	500-220-1	3-7%
Glycerin	N/A	56-81-5	200-289-5	3-7%
Cocamine oxide	N/A	61788-90-7	263-016-9	1-5%
D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	N/A	110615-47-9	N/A	1-5%
Ethanol	N/A	64-17-5	200-578-6	1-5%

Section 4 First aid measures**Description of first aid measures:**

In all cases of doubt, or when symptoms persist, seek medical attention.

In case of inhalation:

Move to fresh air. Get medical attention immediately if symptoms occur.

In case of skin contact:

Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.

In case of eyes contact:

If symptoms persist, call a physician. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if applicable, and continue flushing. Do not rub affected area.

In case of ingestion:

Clean mouth with water and afterwards drink plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Consult a physician.

Most important symptoms and effects, both acute and delayed:

Causes serious eye irritation.

Indication of any immediate medical attention and special treatment needed:

If skin irritation or rash occurs, get medical advice/attention.

Section 5 Fire-Fighting measures

Extinguishing media:

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

Unsuitable extinguishing media: Use of water spray when fighting fire may be inefficient.

Special hazards arising from the substance or mixture

Not available.

Special fire fighting methods and special protective actions for fire-fighters:

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

Section 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel: Provide adequate ventilation. Avoid inhalation of vapour or dust. Avoid skin and eye contact. Refer to section 8 of SDS for personal protection details.

For emergency responders: Wear an appropriate NIOSH/MSHA approved respirator if dust is generated.

Environmental Precautions:

Prevent further leakage or spillage if safe to do so.

Methods for Containment and Cleaning up:

Prevent further leakage or spillage if safe to do so. Pick up and transfer to properly labeled containers.

Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

Additional information:

Not applicable.

Section 7 Handling and storage

Precautions for safe handling:

Protective measures: Containers, even those that have been emptied, may contain explosive vapours. Do NOT cut, drill, grind, weld or perform similar operations on or near containers. Electrostatic discharge may be generated during pumping - this may result in fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment.

Advice on general occupational hygiene: Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

Conditions for safe storage, including any incompatibilities:

Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children.

Specific end use(s):

Not applicable.

Section 8 Exposure Controls/Personal Protection

Control parameters:

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA:

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
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US ACGIH Threshold Limit Values (TLV)	D-Glucopyranose, oligomeric, decyl octyl glycosides	D-Glucopyranose, oligomeric, decyl octyl glycosides	10 ppm	Not Available	Not Available	TLV® Basis: Hematologic, liver & kidney eff
US ACGIH Threshold Limit Values (TLV)	Ethanol	Ethanol	Not Available	1000 ppm	Not Available	TLV® Basis: URT irr

EMERGENCY LIMITS:

Ingredient	TEEL-0	TEEL-1	TEEL-2	TEEL-3
Green Works 98% Naturally Derived Dishwashing Liquid - Original	Not Available	Not Available	Not Available	Not Available

Ingredient	Original IDLH	Revised IDLH
Sodium lauryl sulfate	Not Available	Not Available
D-glucose, decyl octyl ethers, oligomeric	Not Available	Not Available
Glycerin	Not Available	Not Available
Cocamine oxide	Not Available	Not Available
D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	Not Available	Not Available
Ethanol	15,000 ppm	15,000 ppm

Exposure controls:

Appropriate engineering controls: Use in a well-ventilated area.

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.

Hand protection: Wear protective gloves.

Body protection: Wear 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.

Thermal hazards: Wear suitable protective clothing to prevent heat.

Environmental exposure controls: Avoid discharge into the environment.
According to local regulations, Federal and official regulations.

Section 9 Physical and chemical properties

Information on basic physical and chemical properties:

Appearance:	Viscous liquid
Colour:	Light green
Odour:	Lemon
Odour threshold:	Not available
pH:	8.2
Melting point/range (°C):	Not available
Boiling point/range (°C):	Not available
Flash point (°C):	Not available
Evaporation rate:	Not available

Flammability limit - lower (%):	Not available
Flammability (solid, gas):	Not available
Ignition temperature (°C):	Not available
Upper/lower flammability/explosive limits:	Not available
Vapour pressure (20°C):	Not available
Vapour density:	Not available
Density:	Not available
Bulk density (kg/m³):	Not available
Water solubility (g/l):	Appreciable
n-Octanol/Water (log Po/w):	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity, dynamic (mPa.s):	Not available
Explosive properties:	Not available
Oxidising properties:	Not available
Molecular Formula:	Not available
Molecular Weight:	Not available

Other information:

Fat solubility(solvent– oil to be specified) etc:	Not available
Surface tension:	Not available
Dissociation constant in water(pKa):	Not available
Oxidation-reduction Potential:	Not available
Specific gravity:	Not available

Section 10 Stability and reactivity

Reactivity:	The substance is stable under normal storage and handling conditions.
Chemical stability:	Stable at room temperature in closed containers under normal storage and handling conditions.
Possibility of hazardous reactions:	No dangerous reactions known.
Conditions to avoid:	Incompatible materials.
Incompatible materials:	Not available
Hazardous decomposition products:	None known based on information supplied.

Section 11 Toxicological information

Toxicokinetics, metabolism and distribution:

Non-human toxicological data: Not available

Information on toxicological effects:

Acute toxicity:

Sodium lauryl sulfate (CAS#151-21-3)

LD50(Oral, Rat): 1288mg/kg

LD50(Dermal, Rabbit): 580mg/kg

LC50(Inhalation, Rat): > 3900 mg/m³/1h

Acute toxicity:

Glycerin(CAS#56-81-5)

LD50(Oral, Rat): Not available**LD50(Dermal, Rabbit):** >10g/kg**LC50(Inhalation, Rat):** > 570 mg/m³/1h**Acute toxicity:**

Ethanol (CAS#64-17-5)

LD50(Oral, Rat): Not available**LD50(Dermal, Rabbit):** Not available**LC50(Inhalation, Rat):** 124.7 mg/L / 4 h**Skin corrosion/Irritation:** Not classified**Serious eye damage/irritation:** Causes serious eye irritation.**Respiratory or skin sensitization:** Not classified**Germ cell mutagenicity:** Not classified**Carcinogenicity:** Not classified**Reproductive toxicity:** Not classified**STOT- single exposure:** Not classified**STOT-repeated exposure:** Not classified**Section 12 Ecological information****Toxicity:** Sodium lauryl sulfate (CAS#151-21-3)

Acute toxicity		Time	Species	Method	Evaluation	Remarks
LC50	29 mg/L	96h	Fish	OECD 203	N/A	N/A
LC50	5.55 mg/L	48h	Daphnia	OECD 202	N/A	N/A
EC50	> 120 mg/L	72h	Algae	OECD 201	N/A	N/A

Persistence and degradability: Not available.**Bioaccumulative potential:** Not available.**Mobility in soil:** Not available.**Results of PBT&vPvB assessment:** Not available.**Other adverse effects:** Harmful to aquatic life with long lasting effects.**Section 13 Disposal considerations****Waste treatment methods:** The material should be disposed of by incineration in a chemical incinerator in compliance with national and regional requirements.**Product / Packaging disposal:** If empty container retains product residues, all label precautions must be observed. Return for reuse or dispose according to national or local regulations.**Section 14 Transport information**

	Land transport(ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN-Number	Not regulated	Not regulated	Not regulated
UN Proper shipping name	Not regulated	Not regulated	Not regulated

Transport hazard Class	Not regulated	Not regulated	Not regulated
Packaging group	Not regulated	Not regulated	Not regulated
Environmental hazards	Yes	Yes	Yes
Special precautions for user	See section 2.2	See section 2.2	See section 2.2
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not regulated	Not regulated	Not regulated

Section 15 Regulation information

Safety, health and environmental regulations/legislation specific for the substance or mixture:

Sodium lauryl sulfate(151-21-3) is found on the following regulatory lists	Not available.
D-Glucopyranose, oligomeric, decyl octyl glycosides (68515-73-1) is found on the following regulatory lists	Not available.
Glycerin(56-81-5) is found on the following regulatory lists	"Singapore Permissible Exposure Limits of Toxic Substances" List.
Cocamine oxide(61788-90-7) is found on the following regulatory lists	Not available.
D-Glucopyranose, oligomeric, C10-16-alkyl glycosides(110615-47-9) is found on the following regulatory lists	Not available.
Ethanol(64-17-5) is found on the following regulatory lists	Singapore Permissible Exposure Limits of Toxic Substances" List.

Section 16 Other information

Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

Notice to reader:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

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