

Section 1: IDENTIFICATION

Product Name: Simple Green® Heavy-Duty Cleaner & Degreaser (Pressure Washer Concentrate)

Additional Names:

Manufacturer's Part Number: *Please refer to Section 16

Recommended Use: Dilute 1:10 for manual or pressure washer application to clean grease and grime from any surface

Restrictions on Use: Do not use on non-rinsable surfaces.

Company: Sunshine Makers, Inc.
15922 Pacific Coast Highway
Huntington Beach, CA 92649 USA

Telephone: 800-228-0709 • 562-795-6000 *Mon – Fri, 8am – 5pm PST*

Fax: 562-592-3830

Email: info@simplegreen.com

Emergency Phone: Chem-Tel 24-Hour Emergency Service: 800-255-3924

Section 2: HAZARDS IDENTIFICATION

This product is classified as hazardous (Eye Corrosion/Irritation – Category 2B) under 2012 OSHA Hazard Communication Standards (29 CFR 1910.1200).

OSHA HCS 2012

Label Elements

Signal Word: Warning

Hazard Symbol(s)/Pictogram(s): None required

Hazard Statements:

H320 – Causes Eye Irritation.

Precautionary Statements:

P264 – Wash hands thoroughly after handling.

P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 – If eye irritation persists: Get medical attention.

Hazards Not Otherwise Classified (HNOC): None

Other Information: None Known

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredient</u>	<u>CAS Number</u>	<u>Percent Range</u>
Water	7732-18-5	> 90.99%*
Ethoxylated Alcohol	68439-46-3	< 5%*
Sodium Citrate	6132-04-3	< 1%*
Sodium Carbonate	497-19-8	< 1%*
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivatives, chlorides, sodium salts	61789-39-7	< 1%*
Alkyl imino dipropionic acid, monosodium salt	Proprietary	< 1%*
Colorant	Proprietary	< 0.01%*

*specific percentages of composition are being withheld as a trade secret

Section 4: FIRST-AID MEASURES

Inhalation: Not expected to cause respiratory irritation. If adverse effect occurs, move to fresh air.
Skin Contact: Not expected to cause skin irritation. If adverse effect occurs, move to fresh air.
Eye Contact: Causes eye irritation. 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.
Ingestion: May cause upset stomach. Drink plenty of water to dilute. See section 11.

Most Important Symptoms/Effects, Acute and Delayed: None known.

Indication of Immediate Medical Attention and Special Treatment Needed, if necessary: Treat symptomatically

Section 5: FIRE-FIGHTING MEASURES

Suitable & Unsuitable Extinguishing Media: Use Dry chemical, CO₂, water spray or “alcohol” foam. Avoid high volume jet water.
Specific Hazards Arising from Chemical: In event of fire, fire created carbon oxides may be formed.
Special Protective Actions for Fire-Fighters: Wear positive pressure self-contained breathing apparatus; Wear full protective clothing.

This product is non-flammable. See Section 9 for Physical Properties.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

For non-emergency personnel: See section 8 – personal protection.

For emergency responders: Avoid eye contact. Safety goggles suggested if splashing or misting is likely to occur.

Environmental Precautions: Do not allow into open waterways and ground water systems.

Methods and Materials for Containment and Clean Up: Dike or soak up with inert absorbent material. See section 13 for disposal considerations.

Section 7: HANDLING AND STORAGE

Precautions for Safe Handling: Ensure adequate ventilation. Keep out of reach of children. Keep away from heat, sparks, open flame and direct sunlight. Do not pierce any part of the container. Do not mix or contaminate with any other chemical. Do not eat, drink or smoke while using this product.

Conditions for Safe Storage including Incompatibilities: Keep container tightly closed. Keep in cool dry area. Avoid prolonged exposure to sunlight. Do not store at temperatures above 109°F (42.7°C) or freezing temperatures.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limit Values: No components listed with TWA or STEL values under OSHA or ACGIH.

Appropriate Engineering Controls: Showers, eyewash stations, ventilation systems

Individual Protection Measures / Personal Protective Equipment (PPE)

Eye Contact: Use protective glasses or safety goggles if splashing or spray-back is likely.

Respiratory: Use in well ventilated areas or local exhaust ventilation when cleaning small spaces.

Skin Contact: Use protective gloves (any material) when used for prolonged periods or dermally sensitive.

General Hygiene Considerations: Wash thoroughly after handling and before eating or drinking.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Yellow liquid	Partition Coefficient: n-octanol/water:	Not determined	
Odor:	No added fragrance	Autoignition Temperature:	Non-flammable	
Odor Threshold:	Not determined	Decomposition Temperature:	109°F	
pH:	10.0 – 11.5	Viscosity:	Like water	
Freezing Point:	0°C (32°F)	Specific Gravity:	1.00 – 1.02	
Boiling Point & Range:	101°C (213.8°F)	VOCs:	**Water & fragrance exemption in calculation	
Flash Point:	> 212°F	SCAQMD 304-91 / EPA 24:	Not tested	
Evaporation Rate:	Not determined	CARB Method 310**:	3.5 g/L	0.03 lb/gal 0.35%
Flammability (solid, gas):	Not applicable	SCAQMD Method 313:	Not tested	
Upper/Lower Flammability or Explosive Limits:	Not applicable		VOC Composite Partial Pressure:	Not determined
Vapor Pressure:	Not determined		Relative Density:	8.34 – 8.50
Vapor Density:	Not determined		Solubility:	100% in water

Section 10: STABILITY AND REACTIVITY

Reactivity:	Non-reactive.
Chemical Stability:	Stable under normal conditions 70°F (21°C) and 14.7 psig (760 mmHg).
Possibility of Hazardous Reactions:	None known.
Conditions to Avoid:	Excessive heat or cold.
Incompatible Materials:	Do not mix with oxidizers, acids, bathroom cleaners, or disinfecting agents.
Hazardous Decomposition Products:	Normal products of combustion - CO, CO ₂ .

Section 11: TOXICOLOGICAL INFORMATION

Likely Routes of Exposure:	Inhalation -	Overexposure may cause headache.
	Skin Contact -	Not expected to cause irritation, repeated contact may cause dry skin.
	Eye Contact -	Causes eye irritation.
	Ingestion -	May cause upset stomach.

Symptoms related to the physical, chemical and toxicological characteristics: no symptoms expected under typical use conditions.

Delayed and immediate effects and or chronic effects from short term exposure: no symptoms expected under typical use conditions.

Delayed and immediate effects and or chronic effects from long term exposure: headache, dry skin, or skin irritation may occur.

Interactive effects: Not known.

Numerical Measures of Toxicity

Acute Toxicity:	Oral LD ₅₀ (rat)	> 5 g/kg body weight
	Dermal LD ₅₀ (rabbit)	> 5 g/kg body weight

Calculated via OSHA HCS 2012 / Globally Harmonized System of Classification and Labelling of Chemicals

Skin Corrosion/Irritation:	Non-irritant per Dermal Irritaction® assay modeling. No animal testing performed.
Eye Damage/Irritation:	Causes eye irritation per Ocular Irritaction® assay modeling. No animal testing performed. (GHS Hazard category 2B)
Germ Cell Mutagenicity:	Mixture does not classify under this category.
Carcinogenicity:	Mixture does not classify under this category.
Reproductive Toxicity:	Mixture does not classify under this category.
STOT-Single Exposure:	Mixture does not classify under this category.
STOT-Repeated Exposure:	Mixture does not classify under this category.
Aspiration Hazard:	Mixture does not classify under this category.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: Volume of ingredients used does not trigger toxicity classifications under the Globally Harmonized System of Classification and Labelling of Chemicals.

Aquatic: Not tested on finished formulation.

Terrestrial: Not tested on finished formulation.

Persistence and Degradability: Inherently Biodegradable formula: >60% degradation in 28 days, with maximum tested 90% degradation in 54 days (OECD 301D)

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

Other Adverse Effects: No data available.

Section 13: DISPOSAL CONSIDERATIONS

Unused or Used Liquid: May be considered hazardous in your area depending on usage and tonnage of disposal – check with local, regional, and or national regulations for appropriate methods of disposal.

Empty Containers: May be offered for recycling.

Never dispose of used degreasing rinsates into lakes, streams, and open bodies of water or storm drains.

Section 14: TRANSPORT INFORMATION

U.N. Number: Not applicable

Transport Hazard Class(es): Not applicable

Packing Group: Not applicable

Environmental Hazards: Marine Pollutant - NO

Transport in Bulk (according to Annex II of MARPOL 73/78 and IBC Code): Unknown.

Special precautions which user needs to be aware of/comply with, in connection with transport or conveyance either within or outside their premises: None known.

U.S. (DOT) / Canadian TDG: Not Regulated for shipping.

IMO / IDMG: Not classified as Hazardous

U.N. Proper Shipping Name: Cleaning Compound, Liquid NOI

NMFC Number: 48580-3

Class: Not applicable

ICAO/ IATA: Not classified as Hazardous

ADR/RID: Not classified as Hazardous

Section 15: REGULATORY INFORMATION

All components are listed on: TSCA and DSL Inventory.

SARA Title III: Sections 311/312 Hazard Categories – Not applicable.

Sections 313 Superfunds Amendments and Reauthorizations Act of 1986 – Not applicable.

Sections 302 – Not applicable.

Clean Air Act (CAA): Not applicable.

Clean Water Act (CWA): Not applicable

State Right To Know Lists: No ingredients listed

California Proposition 65: No ingredients listed

Texas ESL:

Sodium Carbonate 497-19-8

5 µg/m³ long term

50 µg/m³ short term

Ethoxylated Alcohol 68439-46-3

60 µg/m³ long term

600 µg/m³ short term

Safety Data Sheet: **Simple Green® Heavy-Duty Cleaner & Degreaser (Pressure Washer Concentrate)**

Version No. 18203-15A

Issue Date: November 24, 2015

Supersedes Date: May 2014

OSHA HCS-2012 / GHS

Section 16: OTHER INFORMATION

<u>Size</u>	<u>Item Number</u>	<u>UPC</u>
1 Gallon	2300000118203	043318182037
1 Gallon, 4 per case	18203 & 2310000418203 & 2380100418203	043318182037

USA items listed only. Not all items listed. USA items may not be valid for international sale.

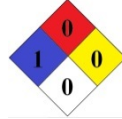
NFPA:

Health – Eye Irritant

Stability – Stable

Flammability – Non-flammable

Special - None



Acronyms

NTP National Toxicology Program

IARC

International Agency for Research on Cancer

OSHA Occupational Safety and Health Administration

CPSC

Consumer Product Safety Commission

TSCA Toxic Substances Control Act

DSL

Domestic Substances List

Prepared / Revised By: Sunshine Makers, Inc., Regulatory Department.

This SDS has been revised in the following sections: Revised SDS layout

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 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.