

**Section 1: PRODUCT & COMPANY IDENTIFICATION**

Product Name: Simple Green® Heavy-Duty BBQ &amp; Grill Cleaner

Additional Names:

Manufacturer's Part Number: *Please refer to section 16*Company: Sunshine Makers, Inc.  
15922 Pacific Coast Highway  
Huntington Beach, CA 92649 USA

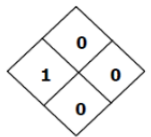
Telephone: 800-228-0709 • 562-795-6000 Fax: 562-592-3830

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

**Section 2: HAZARDS IDENTIFICATION****Emergency Overview:** CAUTION. Contents under pressure. This is a clear liquid (white foam) with a detergent odor on an aerosol delivery can.**Ruotes of Exposure:** Skin contact, eye contct, and inhalation**NFPA/HMIS Rating:**

Health = 1 = slight

Fire, Reactivity, and Special = 0 = minimal

**Potential Health Effects****Eye Contact:** Not expected to cause eye irritation.**Skin Contact:** Not expected to cause skin irritation.**Ingestion:** May cause upset stomach. See section 11.**Inhalation:** Not expected to cause respiratory irritation.**Medical Conditions Aggravated by Exposure:** Dermally sensitive users may experience dry skin.**Target Organs:** None.**Environmental Effects:** Not harmful.**Section 3: COMPOSITION/INFORMATION ON INGREDIENTS**

<u>Ingredient</u>	<u>CAS Number</u>	<u>Percent Range</u>
Water	7732-18-5	≥ 82%
Ethoxylated Alcohol	68439-46-3	≤ 5%
Sodium Citrate	68-04-2	≤ 5%
Tetrasodium N,N-bis(carboxymethyl)-L-glutamate	51981-21-6	≤ 1%
Sodium Carbonate	497-19-8	≤ 1%
Citric Acid	77-92-9	≤ 1%
Butane	106-97-8	4%
Propane	74-98-6	1%

**Section 4: FIRST AID MEASURES****If Inhaled:** If adverse effect occurs, move to fresh air.**If on skin:** If adverse effect occurs, rinse skin with water.**If in eyes:** Flush with plenty of water. After 5 minutes of flushing, remove contact lenses, if present. Continue flushing for at least 10 more minutes. If irritation persists seek medical attention.**If ingested:** Drink plenty of water to dilute.**Section 5: FIRE FIGHTING MEASURES****Flammability:** Flammable propellant; non-flammable foam**Flash Point:** Not determined**Suitable Extinguishing Media:** Use Dry chemical, CO2, water spray or "alcohol" foam.**Extinguishing Media to Avoid:** High volume jet water.

**Section 5: FIRE FIGHTING MEASURES - continued**

**Products of Combustion:** In event of fire, fire created carbon oxides may be formed.  
**Special Protective Equipment:** Firefighters should wear self-contained breathing apparatus and full fire-fighting turn-out gear.

**Section 6: ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:** Use personal protection recommended in section 8.  
**Environmental Precautions:** Prevent runoff from entering drains, sewers or waterways.  
**Method for Containment:** Dike or soak up with inert absorbent material.  
**Method for Clean Up:** Dilute with water and rinse into sanitary sewer system or dispose into suitable container.

**Section 7: HANDLING AND STORAGE**

**Handling:** Ensure adequate ventilation. Keep out of reach of children. Keep away from heat, sparks, open flame and out of direct sunlight. Do not puncture any part of container.  
**Storage:** Keep container tightly closed. Keep in cool dry area. Avoid prolonged exposure to sunlight.

**Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

<b>Exposure Limit Values:</b>	<u>TWA / PEL</u>	<u>STEL</u>	<u>HLV (30 min)</u>	<u>HLV (8 hr)</u>
Butane	800 ppm 1900 mg/m <sup>3</sup>	1000 ppm	190000 µg/m <sup>3</sup> 80 ppmv	38000 µg/m <sup>3</sup> 16 ppmv
Propane	1000 ppm 1800 mg/m <sup>3</sup>	1250 ppm		

**Engineering Controls:** Not applicable.

**Exposure Controls:**

**Eye Contact:** Use protective glasses if splashing or spray-back is likely.  
**Respiratory:** Use in well ventilated areas.  
**Skin Contact:** Prolonged exposure or dermal sensitive individuals should use protective gloves.  
**General Hygiene Considerations:** Wash thoroughly after handling and before eating or drinking.

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b> White Foam	<b>Odor:</b> No added odor – faint detergent smell
<b>Physical State:</b> Liquid	<b>Odor Threshold:</b> Not available
<b>Boiling Point</b> ASTM D-1120: 101°C (213.8°F)	<b>Flash Point</b> ASTM D-93: Not applicable
<b>Freezing Point</b> ASTM D-1177: 0 - 3.33°C (32 - 38°F)	<b>Flammability:</b> Not applicable
<b>Specific Gravity</b> ASTM D-891: 1.01 – 1.03	<b>Autoignition Temperature:</b> Not applicable
<b>Evaporation Rate</b> ASTM D-1901: ½ Butyl Acetate @ 25°C	<b>Decomposition Temperature:</b> Not applicable
<b>Vapor Pressure</b> ASTM D-323: 0.60 psi @77°F, 2.05 psi @100°F (formula) 1640 mmHg @68°C (butane) 6350 mmHg @68°C (propane)	<b>Density</b> ASTM D-4017: 8.552 lb/gal
<b>Vapor Density:</b> Not applicable	<b>Water Solubility:</b> 100%
<b>pH</b> ASTM D-1293: 9.0 ± 0.5	<b>Partial Coefficient:</b> Not available
<b>VOCs:</b> SCAQMD 304-91 / EPA 24: Not tested CARB Method 310**: 54 g/L 0.45 lb/gal 5.4% SCAQMD Method 313: Not tested	**water and fragrance exemption in calculation
<b>VOC composite Partial Pressure:</b> Not Determined	
<b>Nutrient Content:</b> Phosphorous: 0.0%	
<b>Stability:</b> Stable under normal conditions 70°F (21°C) and 14.7 psig (760 mmHg).	

**Section 10: STABILITY AND REACTIVITY**

Reactivity: Non-Reactive.

Conditions to Avoid: None known.

Incompatible Materials: None known.

Hazardous Decomposition Products: Normal products of combustion - CO, CO<sub>2</sub>.

Possibility of Hazardous Reactions: None known.

**Section 11: TOXICOLOGICAL INFORMATION**

Effects of Exposure: Not expected to be hazardous under typical use conditions.

Acute Toxicity: Oral LD<sub>50</sub> (rat) > 5 g/kg body weightDermal LD<sub>50</sub> (rabbit) > 5 g/kg body weight*calculated via OECD Harmonized Integrated Classification System for Human Health & Environmental Hazards of Chemical Substances & Mixtures*

Carcinogens: No ingredients are listed by OSHA, IARC, or NTP as known or suspected carcinogens.

Eyes: Minimal irritant per Ocular Irritation<sup>®</sup> assay modeling. No animal testing performed.Skin: Non-irritant per Dermal Irritation<sup>®</sup> assay modeling. No animal testing performed.**Section 12: ECOLOGICAL INFORMATION**Aquatic Toxicity: Low, based on OECD 201, 202, 203 + Microtox: EC<sub>50</sub> & IC<sub>50</sub> ≥100 mg/L.

Terrestrial Toxicity: Low, based on toxicology profile.

Persistence and degradability: Readily Biodegradable per OECD 301D, Closed Bottle Test.

Mobility: No data available.

Bioaccumulation: Not applicable.

**Section 13: DISPOSAL CONSIDERATIONS**

Appropriate Method for Disposal:

Unused Product: \*Exhaust contents of container as non-hazardous waste, container is under pressure and should be handled appropriately.

Used Product: \* Used product may be hazardous depending on the cleaning application and resulting contaminants.

Empty Containers: \* Exhaust contents (formula and propellant) and offer for recycling if available in your area. Full containers are under pressure and need to be disposed of properly. Do not throw into trash compactor or fire.

\*Dispose of used or unused product, and empty containers in accordance with the local, State, Provincial, and Federal regulations for your location. Never dispose of used degreasing rinsates into lakes, streams, and open bodies of water or storm drains.

**Section 14: TRANSPORT INFORMATION**

MODE	BASIC DESCRIPTION	ADDITIONAL DESCRIPTION	PACKAGE INSTRUCTION	ER INFORMATION
IATA	Consumer Commodity [Less than 17 fl. Oz. (500 ml)]	9, ID8000	910	ERG 171
	Aerosols, flammable [17 fl. Oz. (500 ml) or greater]	2.1, UN1950	Y203, LTD QTY	ERG 126
IMDG	Aerosols [For all sizes]	2, UN1950		ERG 126, EmS 2-13, MFAG 620

**Section 14: TRANSPORT INFORMATION - continued**

MODE	BASIC DESCRIPTION	ADDITIONAL DESCRIPTION	PACKAGE INSTRUCTION	ER INFORMATION
DOT (40 CFR)	Aerosols, Flammable	2.1 Flammable Gas	Hazard Class II	ERG 171

**Section 15: REGULATORY INFORMATION**

All components are listed on: EINECS, TSCA, DSL, AICS and NZIoC Inventory.

SARA Title III: Sections 311 – Butane (CAA 112(r) TQ 10,000 lbs); Propane (CAA 112® TQ 10,000 lbs)  
 Sections 313 – Not applicable.  
 Sections 302 – Not applicable.

State Right To Know Lists

Butane 106-97-8 Massachusetts, New Jersey, Pennsylvania  
 Propane 74-98-6 Massachusetts, New Jersey, Pennsylvania

CA Prop 65: None listed.

Texas ESL:

Ethoxylated Alcohol	68439-46-3	60 µg/m3 long term	600 µg/m3 short term
Sodium Citrate	68-04-2	5 µg/m3 long term	50 µg/m3 short term
Sodium Carbonate	497-19-8	5 µg/m3 long term	50 µg/m3 short term
Citric Acid	77-92-9	10 µg/m3 long term	100 µg/m3 short term
Butane	106-97-8	1000 ppb / 2375 µg/m3 long term	10000 ppb / 23750 µg/m3 short term

**WHMIS Classification** – Category D, subcategory 2B, eye irritant

Name	Toxic Substances List – Schedule 1 – CEPA	NPRI Inventory
No	No	No

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by Canada’s Controlled Products Regulation.

**Section 16: OTHER INFORMATION**

**Part Number:**

0310001260014 – 20 ounce aerosol can (12 per case)  
*USA part numbers listed only. Not all part numbers listed. USA part numbers may not be valid for international sale.*

**BATCH CODING:**

Containers of this formula will be batch coded as follows:  
 Example: HH3001002, HL3001002 where...  
 HH & HL are codes for production facilities,  
 “3” is the last digit of the year product was produced,  
 “001” is the Julian date product was produced, and  
 “002” is the batch number for that product in that year.

**Prepared / Revised By:**

Sunshine Makers, Inc., Regulatory Department.

**This SDS has been revised in the following sections:**

ALL

**DISCLAIMER:** The information provided with this MSDS is furnished in good faith and without warranty of any kind. Personnel handling this material must make independent determinations of the suitability and completeness of information from all sources to assure proper use and disposal of this material and the safety and health of employees and customers. Sunshine Makers, Inc. assumes no additional liability or responsibility resulting from the use of, or reliance on this information.