

Section 1: PRODUCT & COMPANY IDENTIFICATION

Product Name: Foaming Crystal Simple Green® Industrial Cleaner/Degreaser
 Additional Names: Foaming Simple Green®

Manufacturer's Product Code Numbers: 19010 – 20 ounce can

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

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

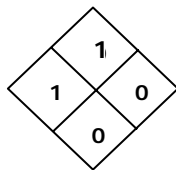
Emergency Phone: Chem-Tel 24-Hour Emergency Service: 800-225-3924

Use of Product: A Ready-To-Use cleaning and degreasing foam for use on a variety of surfaces including vertical and hard to reach areas. For use on ovens, range-hoods, vents, tires, wheels, tools, counters, grease and oil stains, stove-tops, refrigerators, sinks, showers, tubs, tile, toilets, fiberglass, canvas, recreational and sports equipment, trash cans and more.

Section 2: HAZARDS IDENTIFICATION

Emergency Overview: CAUTION. Mild eye irritant.

Foaming Simple Green® is a colorless liquid with a very faint detergent-like odor.

HMIS Rating:

Health = 1 = slight

Fire = 1

Reactivity, and Special = 0 = minimal

NFPA Rating

Level 1 (aerosol)

Eye Contact: Eye Irritant (due to defatting effects.)

Skin Contact: No adverse effects expected under typical use conditions. Prolonged exposure to concentrate may cause dryness. Under this condition, use of gloves or skin moisturizer after washing may be indicated.

Ingestion: May cause stomach or intestinal upset if swallowed (due to deterative properties.)

Inhalation: No adverse effects expected under typical use conditions. Adequate ventilation should be present when using Foaming Simple Green® over a prolonged period of time. Open windows or ventilate via fan or other air-moving equipment if necessary.

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

Medical Conditions: No medical conditions are known to be aggravated by exposure to Foaming Simple Green®.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>Reportable Components</u>	<u>CAS NUMBER</u>	<u>Vapor Pressure (mmHg @ 68°C)</u>	<u>Weight Percent</u>
2-Butoxyethanol, Glycol Ether EB ACGIH TLV-TWA: 20 ppm, (97 mg/m ³)	111-76-2	0.6	< 5%
Butane OSHA PEL: 800 ppm, ACGIH TLV: 800 ppm	106-97-8	1640	4%
Propane OSHA PE: 1000ppm, ACGIH TLV: ASPHYXIANT	74-98-6	6350	1%

* Note, based upon chemical analysis Foaming Simple Green® contains no known EPA priority pollutants, heavy metals, or chemicals listed under RCRA, CERCLA, or CWA. Analysis by TCLP (Toxicity Characteristic Leaching Procedure) According to RCRA revealed no toxic organic or inorganic constituents.

Section 4: FIRST AID MEASURES

Eye Contact:	Reddening may develop. Immediately rinse the eye with large quantities of cool water; continue 10-15 minutes or until the material has been removed; be sure to remove contact lenses, if present, and to lift upper and lower lids during rinsing. Get medical attention if irritation persists.
Skin Contact:	Minimal effects, if any; rinse skin with water, rinse shoes and launder clothing before reuse. Reversible reddening may occur in some dermal-sensitive users; thoroughly rinse area and get medical attention if reaction persists.
Swallowing:	Essentially non-toxic. Give several glasses of water to dilute; do not induce vomiting. If stomach upset occurs, consult physician
Inhalation:	Intentional concentration of propellant could cause respiratory irritation, headache, nausea, fatigue, drowsiness, impaired coordination. Remove to fresh air. Administer oxygen if needed. Apply artificial respiration if breathing has stopped. Get medical attention.

Section 5: FIRE FIGHTING MEASURES

Extinguishing medium as appropriate for combustibles in area.

Special fire fighting procedures: Foaming Simple Green® contains a flammable propellant and firefighters should wear self-contained breathing apparatus when fighting fires containing or around this product. Shut off all sources of ignition if possible. Keep containers cool with water spray to prevent rupture. Ventilate area. Contain spill and dike if possible. For leaks and spills that have not ignited, water spray can be used to disperse the flammable vapor and protect personnel attempting to stop the leak. Do not use direct stream of water because the flammable portion will float and can be reignited.

Unusual fire and explosion hazards: Firefighters should wear SCBA's in a positive pressure mode with full-face shield. The flammable components are heavier than air and may travel long distances and accumulate in low areas or spread along ground from handling site. Eliminate all sources of ignition as vapor

NOTE: Per the DOT Flame Extension Test, Foaming Simple Green® did not produce a flame projection or flashback.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with eyes. Do not rub eyes with hands during cleanup. No special precautions for dermal contact are needed. Wash hands thoroughly after cleaning up spill or leak.

Procedure to follow in case of spill or leak: Evacuate area. Extinguish all ignition sources. Ventilate area especially low places where heavy vapors might collect.

Method for cleaning up: Recover all reusable material. Rinse area with plenty of water and mop to sanitary sewer.

Section 7: HANDLING AND STORAGE

Store in tightly sealed containers. Keep away from heat, sparks, open flame and out of direct sunlight. Store below 120°F. Do not puncture or incinerate (burn) cans. Do not stick pin, nail or any other sharp object into opening on top of can.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:	The Foaming Simple Green® formulation presents no health hazards to the user, other than mild eye irritancy. No special requirements or precautionary measures needed under normal use conditions.
Ventilation:	No special ventilation is required during normal use. No special precautions or respiratory protection required under normal use conditions. Use exhaust ventilation if necessary to keep airborne concentrations below exposure limits.
Human Health Effects or Risks From Exposure:	Adverse effects on human health are not expected from Foaming Simple Green®. Foaming Simple Green® is a mild eye irritant; mucous membranes may become irritated by concentrate-mist. Foaming Simple Green® is not likely to irritate the skin in the majority of users. Repeated daily application to the skin without rinsing, or continuous contact of Foaming Simple Green®.
Eye protection:	Wear chemical splash goggles or face shield when eye contact is possible due to splashing or spraying Foaming Simple Green®.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION – continued –

Skin protection: Gloves or other skin protection are generally not needed under normal use conditions of Foaming Simple Green®. Prolonged or repeated skin exposure over long periods of time, pre-existing skin conditions such as dermatitis, or allergic response to contact with the product may warrant the use of gloves, barrier creams, chemical aprons or other skin protection.

General hygiene conditions: There are no known hazards associated with this material when used as recommended. The following general hygiene considerations are recognized as common good industrial hygiene practices:

- Avoid breathing vapor or mist.
- Avoid contact with eyes.
- Wash thoroughly after handling and before eating, drinking, or smoking.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White Foam	Vapor Pressure:	18 mm Hg @ 20°C
Odor:	Mild soap odor	Boiling Point:	100.6 °C
Specific Gravity:	1.025 ± 0.015	Water Solubility:	100%
pH:	9.35	VOC:	50 g/L per EPA Method 24 test results.

Section 10: STABILITY AND REACTIVITY

Stability: Stable
Materials to Avoid: None known
Hazardous Decomposition Products: None expected

Section 11: TOXICOLOGICAL INFORMATION**Nonhuman Toxicity (Data for Simple Green®)**

Acute Toxicity: Oral LD₅₀ (rat): >5.0 g/kg body weight Dermal LD₅₀ (rabbit) >2.0 g/kg body weight

Eye Irritation: With or without rinsing with water, the irritation scores in rabbits at 24 hours did not exceed 15 (mild irritant) on a scale of 0-110.

Dermal Irritation: Only mild, but reversible, irritation was found in a standard 72 hour test on rabbits. A value of 0.2 (non-irritating) was found on a scale of 0-8.

Subchronic dermal effects: No adverse effects, except reversible dermal irritation, were found in rabbits exposed to Simple Green (up to 2.0 g/kg/day for 13 weeks) applied to the skin of 25 males and 25 females. Only female body weight gain was affected.

Fertility Assessment by Continuous Breeding: The Simple Green formulation had no adverse effect on fertility and reproduction in CD-1 mice with continuous administration for 18 weeks, and had no adverse effect on the reproductive performance of their offspring.

Section 12: ECOLOGICAL INFORMATION

Biodegradability: Like Simple Green®, Foaming Simple Green® is readily decomposed by naturally occurring microorganisms. The biological oxygen demand (BOD), as a percentage of the chemical oxygen demand (COD), will approximate 60% after 11 days. In a standard biodegradation test with soils from three different countries. Butyl Cellosolve reached 50% degradation in six to 23 days, depending upon soil type, and exceeded the rate of degradation for glucose, which was used as a control for comparison.

Environmental Toxicity Information: Foaming Simple Green® is considered practically non-toxic per EPA's Aquatic toxicity scale.

Section 13: DISPOSAL CONSIDERATIONS

Foaming Simple Green® is fully water soluble and biodegradable and will not harm sewage-treatment microorganisms if disposal by sewer or drain is necessary. Dispose of in accordance with all applicable local, state and federal laws.

Containers: Do not throw empty containers in trash compactor or into fire. Do not store in direct sun.

*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 INSTURCTION	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
DOT (40 CFR)	Consumer Commodity [For all sizes]	ORM-D		ERG 171
UPS Air	Consumer Commodity [For all sizes]	ORM-D-AIR		ERG 171

Section 15: REGULATORY INFORMATION

Reportable components: None.

All components are listed on: EINECS and TSCA Inventory

No components listed under: Clean Air Act Section 112

RCRA Status: Not a hazardous waste.

CERCLA Status: No components listed

TSCA TIR Reporting: Not required / Not listed

CA PROP. 65 Status: No components listed

Section 16: OTHER INFORMATION

Questions about the information found on this MSDS should be directed to:

SUNSHINE MAKERS, INC. – TECHNICAL DEPARTMENT

15922 Pacific Coast Hwy. Huntington Harbour, CA 92649

Phone: 800/228-0709 [8am-5pm Pacific time, Mon-Fri] *Fax:* 562/592-3830 *Email:* infoweb@simplegreen.com

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