

**Section 1: PRODUCT & COMPANY IDENTIFICATION**

Product Name: Simple Green® Extreme Clean  
 Additional Names: Simple Green® Extreme Clean (Lemon Scent)

Manufacturer's Product Code Numbers: 18005 – 128 oz Bottle 18105 - 128 oz Bottle (lemon)

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

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

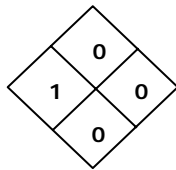
Emergency Phone: Chem-Tel 24-Hour Emergency Service: 800-225-3924

Use of Product: A concentrated all purpose cleaner and degreaser used diluted in water for direct, spray and dip tank procedures.

**Section 2: HAZARDS IDENTIFICATION**

**Emergency Overview: CAUTION. Mild eye irritant.**

**Simple Green® Extreme Clean is a translucent teal-green liquid with an herbal odor or yellow liquid with a lemon odor.**

HMIS Rating:

Health = 1 = slight

Fire = 0

Reactivity, and Special = 0 = minimal

**Eye Contact:** Mild Eye Irritant.

**Skin Contact:** No adverse effects expected under typical use conditions. Prolonged exposure 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 Simple Green® Extreme Clean 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 Simple Green® Extreme Clean. Dermal-sensitive users may experience mild but reversible reactions.

**UN Number:** Not Required

**Dangerous Goods Class:** Nonhazardous

**Section 3: COMPOSITION/INFORMATION ON INGREDIENTS**

The only ingredient of Simple Green® Extreme Clean with established exposure limits is undiluted 2-butoxyethanol (<6%) (Butyl Cellosolve; CAS No. 111-76-2); the ACGIH TLV-TWA is 20 ppm (97 mg/m<sup>3</sup>). Based upon chemical analysis, Simple Green® Extreme Clean 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.

All components of Simple Green® Extreme Clean are listed on the TSCA Chemical Substance Inventory.

NJ Trade Secret Numbers				
80100235-5000p	80100235-5002p	80100235-5004p	80100235-5006p	80100235-5008p
80100235-5001p	80100235-5003p	80100235-5005p	80100235-5007p	80100235-5009p

**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: Non-toxic. Exposure to concentrate may cause mild irritation of nasal passages or throat; remove to fresh air. Get medical attention if irritation persists.

**Section 5: FIRE FIGHTING MEASURES**

**Simple Green® Extreme Clean is stable, not flammable, and will not burn.**

- Flash Point/Auto-Ignition: Not flammable.
- Flammability Limits: Not flammable.
- Extinguishing Media: Not flammable/nonexplosive. No special procedures required.
- Special Fire Fighting Procedures: None required.

**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.

**Method for cleaning up:** Recover usable material by convenient method, residual may be removed by wipe or wet mop. If necessary, unrecoverable material may be washed to drain with large quantities of water.

**Section 7: HANDLING AND STORAGE**

No Special precautions are required. **This product is non-hazardous for storage and transport according to the U.S. Department of Transportation Regulations.** Simple Green® Extreme Clean requires no special labeling or placarding to meet U.S. Department of Transportation requirements.

**UN Number:** Not Required

**Dangerous Goods Class:** Nonhazardous

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

- Exposure Limits: The Simple Green® Extreme Clean formulation presents no health hazards to the user when used according to label directions for its intended purposes. Mild skin and eye irritation is possible (please see Eye contact and Skin contact in section IV.) No special precautionary measures required under normal use conditions.
- Ventilation: No special ventilation, precautions or respiratory protection is required during normal use. Large-scale use indoors should provide an increased rate of air exchange.
- Human Health Effects or Risks From Exposure: Adverse effects on human health are not expected from Simple Green® Extreme Clean, based on 20 years of use of Simple Green without reported adverse health incidence in diverse population groups, including extensive use by inmates of U.S. Federal prisons in cleaning operations.
- Eye protection: Simple Green® Extreme Clean is a mild eye irritant; mucous membranes may become irritated by concentrate. Eye protection not generally required. Wash hands after using wipes.
- Skin protection: Simple Green® Extreme Clean is not likely to irritate the skin in the majority of users. Repeated daily application to the skin without rinsing, or continuous contact on the skin may lead to temporary, but reversible, irritation. Rinse completely from skin after contact.

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

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**

<b>Appearance &amp; Odor:</b> Translucent teal-green liquid with a herbal odor or yellow liquid with a lemon odor.			
<b>Specific Gravity:</b>	1.0257	<b>Vapor Pressure:</b>	17 mm Hg @ 20°C; 23.5 mmHg @ 26°C
<b>Evaporation:</b>	>1 (butyl acetate = 1)	<b>Vapor Density:</b>	1.3 (air = 1)
<b>Water Solubility:</b>	100%	<b>Density:</b>	8.5 lbs/gallon
<b>Boiling Point:</b>	110°C (231°F)	<b>pH:</b>	9.5
<b>Ash Content:</b>	At 600°F: 1.86% by weight	<b>Nutrient Content:</b> Phosphorus: 0.3% by formula Nitrogen <1.0% by weight (fusion and qualitative test for ammonia) Sulfur: 0.6% by weight (barium chloride precipitation method)	
<b>Freezing Point:</b>	Approx -9 °C (16 °F) <i>If product freezes, it will reconstitute without loss of efficacy when brought back to room temperature and agitated.</i>		
<b>VOC Composite Partial Pressure:</b> 0.006 mmHg @ 20°C			
<b>Volatile Organic Compounds (VOCs):</b> Per California ARD Method 310, VOC's are less than 5%. Cleaner must be diluted per label instructions to meet EPA, CARB, SCAQMD and BAAQMD requirements.			

**Section 10: STABILITY AND REACTIVITY**

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

**Section 11: TOXICOLOGICAL INFORMATION**

The information and conclusions cited in this section are based on data and testing of Simple Green® because, except for fragrance and dyes which have been removed, it contains the same ingredients as Simple Green®.

**Nonhuman Toxicity (Data for Simple Green®)**

Acute Toxicity: Oral LD<sub>50</sub> (rat): >5.0 g/kg body weight      Dermal LD<sub>50</sub> (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®, Simple Green® Extreme Clean is readily decomposed by naturally occurring microorganisms. The biological oxygen demand (BOD), as a percentage of the chemical oxygen demand (COD), after 4, 7, and 11 days was 56%, 60% and 70%, respectively. Per OECD Closed Bottle Test, Simple Green® Extreme Clean meets OECD and EPA recommendations for ready biodegradability.

In a standard biodegradation test with soils from three different countries, Butyl Cellosolve reached 50% degradation in 6 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:** Simple Green® Extreme Clean is considered practically non-toxic per EPA's Aquatic toxicity scale.

		LC <sub>50</sub> in mg/L (ppm)	
		48-hour	96-hour
<b>Marine Fish:</b>	Mud Minnow ( <i>Fundulus heteroclitus</i> )	1690	1574
	Whitebait ( <i>Galaxias maculatus</i> )	210	210
<b>Marine/Estuarine Invertebrates:</b>	Brine Shrimp ( <i>Artemia salina</i> )	610	399
	Grass Shrimp ( <i>Palaemonetes pugio</i> )	270	220
	Green-lipped Mussel ( <i>Perna canaliculus</i> )	220	220
	Mud Snail ( <i>Potamopyrgus Estuarinus</i> )	410	350

**Section 13: DISPOSAL CONSIDERATIONS**

Simple Green® Extreme Clean 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. 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**

This product is non-hazardous for transport according to the U.S. Department of Transportation Services

UN Number: Not required

Dangerous Goods Class: Nonhazardous

**Section 15: REGULATORY INFORMATION**

All components are listed on: EINECS and TSCA Inventory

\*Reportable components: None.

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

**Electrical Wiring Compatibility:**

Polyamide insulated wiring is not affected by exposure to Simple Green® Extreme Clean. After immersion in this formula for 14 days at 74°F, the 61 cm piece of polyamide insulated wire passed a one minute dielectric proof at 2500 volts (ASTM D-149).

**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.