

SN13005

Material Safety Data Sheet: **All-Purpose Simple Green® Cleaner**
Version No. 16301 Date of Issue: January 2007

ANSI-Z400.1-2003 Format

Section 1: PRODUCT & COMPANY IDENTIFICATION

Product Name: All-Purpose Simple Green® Cleaner (ready-to-use)

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

Telephone: 800-228-0709 • 562-795-6000

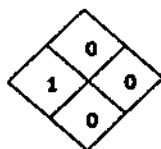
Fax: 562-592-3830

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

Use of Product: All-Purpose Simple Green® Cleaner is a ready-to-use cleaning product and can be used undiluted on any water-safe surface. This MSDS pertains to the fluid found in the wipes, not the wipe substrate itself.

Section 2: HAZARDS IDENTIFICATION

Emergency Overview: **CAUTION.** Mild eye irritant.
All-Purpose Simple Green® is a green liquid with a sassafras fragrance



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 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 All-Purpose Simple Green® Cleaner. 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 All-Purpose Simple Green® Cleaner with established exposure limits is undiluted 2-butoxyethanol (<1%) (Butyl Cellosolve; CAS No. 111-76-2): the ACGIH TLV-TWA is 20 ppm (97 mg/m³). Based upon chemical analysis, Simple Green® Multi-Purpose Cleaner & Wipes contain 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 All-Purpose Simple Green® Cleaner are listed on the TSCA Chemical Substance Inventory.

NJ TRADE SECRET REGISTRATION NUMBERS

80100235-5000P	80100235-5002P	80100235-5004P	80100235-5006P	80100235-5008P
80100235-5001P	80100235-5003P	80100235-5005P	80100235-5007P	80100235-5009P

Pg 1 of 4

Material Safety Data Sheet: **ALL-PURPOSE SIMPLE GREEN® CLEANER**

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

All-Purpose Simple Green® Cleaner 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.** All-Purpose Simple Green® Cleaner 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:** All-Purpose Simple Green® Cleaner 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. Mucous membranes may become irritated.
- Human Health Effects or Risks From Exposure:** Adverse effects on human health are not expected from All-Purpose Simple Green® Cleaner, 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:** All-Purpose Simple Green® Cleaner is a mild eye irritant. Eye protection not generally required. Wash hands after using wipes.

Material Safety Data Sheet: **All-Purpose Simple Green® Cleaner**
Simple Green® Multi-Purpose Wipes

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Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION - continued -

Skin protection: All-Purpose Simple Green® Cleaner 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.

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 & Odor: All-Purpose Simple Green® Cleaner is a green liquid with a sassafras scent.			
Specific Gravity:	1.0257	Vapor Pressure:	17 mm Hg @ 20°C; 22 mmHg @26°C
Evaporation:	>1 (butyl acetate = 1)	Vapor Density:	1.3 (air = 1)
Water Solubility:	100%	Density:	8.5 lbs/gallon
Boiling Point:	110°C (231°F)	pH:	8.8
Ash Content:	At 600°F: 1.86% by weight	Nutrient Content: 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)	
Freezing Point:	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>		
VOC Composite Partial Pressure: 0.006 mmHg @ 20°C			
Volatile Organic Compounds (VOCs): Per California ARD Method 310, VOCs are less than 1.2%. Cleaner and wipes meet all 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 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®, All-Purpose Simple Green® Cleaner 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, All-Purpose Simple Green® Cleaner 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: All-Purpose Simple Green® Cleaner is considered practically non-toxic per EPA's Aquatic toxicity scale.

		LC ₅₀ in mg/L (ppm)	
		48-hour	96-hour
Marine Fish:	Mud Minnow (<i>Fundulus heteroclitus</i>)	1690	1574
	Whitebait (<i>Galaxias maculatus</i>)	210	210
Marine/Estuarine Invertebrates:	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

All-Purpose Simple Green® Cleaner 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.

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

<u>*Reportable components:</u>	None.	<u>CERCLA Status:</u>	No components listed
<u>All components are listed on:</u>	EINECS and TSCA Inventory	<u>CA PROP. 65 Status:</u>	No components listed
<u>No components listed under:</u>	Clean Air Act Section 112		
<u>RCRA Status:</u>	Not a hazardous waste.		
<u>TSCA TIR Reporting:</u>	Not required / Not 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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