

**Section 1: PRODUCT & COMPANY IDENTIFICATION**

Product Name: Simple Green® Pro Grade Heavy-Duty Cleaner  
 Additional Names: Simple Green® Pro HD Heavy Duty Cleaner and Degreaser

Manufacturer's Part Number: 13421 – 1 gallon bottle

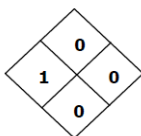
Company: Sunshine Makers, Inc.  
 15922 Pacific Coast Highway  
 Huntington Beach, CA 92649 USA

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. Irritant. This is a purple colored liquid with a chemical/detergent odor.



NFPA/HMIS Rating:

Health = 1 = slight

Fire, Reactivity, and Special = 0 = minimal

**Potential Health Effects**

**Eye Contact:** Mildly irritating.

**Skin Contact:** No adverse effects expected under typical use conditions. Prolonged exposure may cause dryness. Chemically sensitive individuals may experience mild irritation.

**Ingestion:** May cause stomach or intestinal irritation if swallowed.

**Inhalation:** No adverse effects expected under typical use conditions. Adequate ventilation should be present for prolonged usage in small enclosed areas.

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

<u>Ingredient</u>	<u>CAS Number</u>	<u>Percent Range</u>
Water	7732-18-5	≥ 77%
Triethanolamine	102-71-6	10%
Ethoxylated Alcohol / Quaternary Amine mixture	Proprietary	≤ 5%
Propylene Glycol Butyl Ether	5131-66-8	≤ 5%
Tetrapotassium Pyrophosphate	7320-34-5	≤ 1%
Sodium Silicate	1344-09-8	≤ 1%
Colorant	Proprietary	≤ 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**

This formula is stable, non-flammable, and will not burn. No special procedures necessary

- Flammability:** Non-flammable
- Flash Point:** Non-flammable

- Suitable Extinguishing Media:** Use Dry chemical, CO2, water spray or “alcohol” foam.
- Extinguishing Media to Avoid** High volume jet water.
- Special Exposure Hazards:** In event of fire created carbon oxides, oxides of phosphorus may be formed.
- Special Protective Equipment:** Wear positive pressure self-contained breathing apparatus; Wear full protective clothing.

**Section 6: ACCIDENTAL RELEASE MEASURES**

- Personal Precautions:** See section 8 – personal protection.
- Environmental Precautions:** Do not allow into open waterways and ground water systems.
- Method for Clean Up:** Dilute with water and rinse into sanitary sewer system or soak up with inert absorbent material.

**Section 7: HANDLING AND STORAGE**

- Handling:** Keep container tightly closed. Ensure adequate ventilation.
- Storage:** Keep in cool dry area.

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

<b>Exposure Limit Values:</b>	OSHA PEL	ACGIH TLV
Triethanolamine	-	5 mg/m <sup>3</sup>
Tetrapotassium Pyrophosphate	-	5 mg/m <sup>3</sup>

- 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.

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Purple Liquid	<b>Vapor Pressure:</b>	20.7 mmHg
<b>Odor:</b>	Detergent odor; no added fragrance	<b>Density:</b>	8.546 lb/gal; 1.024 g/L
<b>Specific Gravity:</b>	1.025 ± 0.015	<b>Water Solubility:</b>	100%
<b>pH:</b>	10.9 ± 0.8	<b>Evaporation Rate:</b>	9.54% per hour
<b>Boiling Point:</b>	~210°F (98 °C)	<b>Insoluble Matter:</b>	< 0.01%
<b>Freezing Point:</b>	~ 32°F (0 °C)	<b>Percent Volatiles</b>	85.26% (ASTM-D 2369)
<b>Nutrient Content:</b>	Nitrogen:<0.1% (0% by formula)	<b>VOC composite Partial Pressure:</b>	TBD
	Phosphorous: < 0.25% (by formula)	<b>VOC:</b>	CARB Method 310 0.17%
	Sulfur: <0.1% (0% by formula)		SCAQMD Method 313 2.04%

**Section 10: STABILITY AND REACTIVITY**

Stability: Stable  
 Materials to Avoid: None known  
 Hazardous Decomposition Products: Normal products of combustion - CO, CO<sub>2</sub>; Oxides of Phosphorous may occur.

**Section 11: TOXICOLOGICAL INFORMATION**

Acute Toxicity: Oral LD<sub>50</sub> (rat) > 10 g/kg body weight  
 Dermal LD<sub>50</sub> (rabbit) > 5 g/kg body weight  
 Toxicity calculated from ingredients using OECD SERIES ON TESTING AND ASSESSMENT Number 33

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

**Section 12: ECOLOGICAL INFORMATION**

Hazard to wild mammals: Low, based on toxicology profile  
 Hazard to avian species: Low, based on toxicology profile  
 Hazard to aquatic organisms: Low, LC<sub>50</sub> for freshwater fish and Daphnia estimated to be > 200 ppm  
 Chemical Fate Information: Readily Biodegradable per OECD 301D, Closed Bottle Test

**Section 13: DISPOSAL CONSIDERATIONS**

Appropriate Method for Disposal:

- Unused Product: \*Dilute with water to use concentration and dispose by sanitary sewer.  
 Used Product: \*This product can enter into clarifiers and oil/water separators. Used product may be hazardous depending on the cleaning application and resulting contaminants.  
 Empty Containers: \*Triple-rinse with water and offer for recycling if available in your area. Otherwise, dispose as non-hazardous waste.

\*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**

U.S. Department of Transportation (DOT) / Canadian TDG: Not Regulated

IMO / IDMG: Not classified as Dangerous

ICAO/ IATA: Not classified as Dangerous

ADR/RID: Not classified as Dangerous

U.N. Number	Not Required	Proper Shipping Name:	Detergent Solution
Hazard Class:	Non-Hazardous	Marine Pollutant:	No

**Section 15: REGULATORY INFORMATION**

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

No components listed under: Clean Air Act Section 112; Clean Water Act 307 & 311

SARA Title III No reportable ingredients.

<u>RCRA Status:</u>	Not a hazardous waste	<u>CERCLA Status :</u>	No components listed
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State Right To Know Lists

Triethanolamine

Pennsylvania, Minnesota, Massachusetts

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

Name	Toxic Substances List – Schedule 1 – CEPA (Canadian Environmental Protection Act)	NPRI Inventory
None	None	None

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**

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

SUNSHINE MAKERS, INC. – TECHNICAL DEPARTMENT

15922 Pacific Coast Hwy. Huntington Beach, CA 92649

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

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