

Material Safety Data Sheet: Simple Green® Pro HD / Pro Grade Simple Green® Heavy-Duty Cleaner

Version No. 13421-13A

Date of Issue: February 25, 2013

Supersedes date: January 2011

ANSI-Z400.1-2010

Section 1: PRODUCT & COMPANY IDENTIFICATION

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

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 Monday – Friday, 8am – 5pm PST

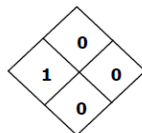
Fax: 562-592-3830

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

Section 2: HAZARDS IDENTIFICATION

Emergency Overview: CAUTION. Irritant. This is a clear purple liquid with a chemical/detergent odor.

Routes of Exposures: Eye Contact, Skin Contact, Inhalation



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.

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	≥ 78%
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**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, fire created carbon oxides and 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 Containment:** Dike or soak up with inert absorbent material.**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:** Ensure adequate ventilation. Keep out of reach of children. Keep away from heat, sparks, open flame and direct sunlight. Do not pierce any part of the container.**Storage:** Keep container tightly closed. Keep in cool dry area. Avoid prolonged exposure to sunlight. Do not store at temperatures above 115°F (46.11°C).**Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

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

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****Appearance:** Purple liquid**Physical State:** Liquid**Odor:** No added odor.**Odor Threshold:** Not available.**Boiling Point:** 98 °C (210°F)**Freezing Point:** 0 °C (32°F)**Specific Gravity:** 1.01 – 1.04**Evaporation Rate:** 9.54% per hour**Vapor Pressure:** 20.7 mmHg**Vapor Density:** Not applicable**pH:** 10.9 ± 0.8**Flash Point:** Not applicable**Flammability:** Not applicable**Autoignition Temperature:** Not applicable**Decomposition Temperature:** Not applicable**Density:** 8.34 – 8.42 lbs/gallon**Water Solubility:** 100%**Partial Coefficient:** Not available

Section 9: PHYSICAL AND CHEMICAL PROPERTIES – continued

VOCs:	CARB Method 310	20 g/L	0.1667 lb/gal	2.0%
	SCAQMD Method 313	20.4 g/L	0.1702 lb/gal	2.04%
VOC Composite Partial Pressure:	0.102207135			
Nutrient Content:	Nitrogen:<0.1% (0% by formula)	Phosphorous: < 0.25% (by formula)	Sulfur: <0.1% (0% by formula)	

Section 10: STABILITY AND REACTIVITY

Stability:	Stable under normal conditions 70°F (21°C) and 14.7 psig (760 mmHg).
Reactivity:	Non-reactive.
Conditions to Avoid:	Temperature above 115 °F (46.11 °C).
Incompatible Materials:	None known.
Hazardous Decomposition Products:	Normal products of combustion - CO, CO ₂ ; Oxides of phosphorous may occur.
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 ₅₀ (rat)	> 5 g/kg body weight
	Dermal LD ₅₀ (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:	Mildly irritating.
Skin:	No adverse effects expected under typical use conditions.

Section 12: ECOLOGICAL INFORMATION

Aquatic Toxicity:	Low, based on toxicology profile
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:	*Dilute with water and dispose by sanitary sewer.
Used Product:	* 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.

*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

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Section 14: TRANSPORT INFORMATION - continued

IMO / IDMG: Not classified as Dangerous
ICAO/ IATA: Not classified as Dangerous
ADR/RID: Not classified as Dangerous

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

Section 15: REGULATORY INFORMATION

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

SARA Title III Section 311/312: Not applicable.
Section 313: Not applicable.
Section 302: Not applicable.

State Right To Know Lists Triethanolamine Pennsylvania, Minnesota, Massachusetts

CA Prop 65: None listed.

Texas ESL:

Ethoxylated Alcohol 68439-46-3 60 µg/m3 long term 600 µg/m3 short term

WHMIS Classification – Non hazardous, not clasifiable

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

Prepared / revised by: Sunshine Makers, Inc., Regulatory Department

This SDS has been revised in the following sections: Section 9

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