

Section 1: PRODUCT & COMPANY IDENTIFICATION

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

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: 800-255-3924

Use of Product: Concentrated heavy duty cleaner and degreaser for use with parts washing equipment, floor cleaners or manual application on a variety of hard non-porous surfaces such as floors, walls, metal-surfaces, plastic-surfaces, engines, automotive exteriors, ovens, grills, sinks, showers, and more.

Section 2: HAZARDS IDENTIFICATION**NONHAZARDOUS**

Emergency Overview: CAUTION. Mild eye irritant.

Simple Green® Pro HD is a purple liquid with a very faint detergent-like odor. It is non-flammable, non-combustible, non-explosive, and non-reactive.

NFPA/HMIS Rating:

Health = 1 = slight

Fire, Reactivity, and Special = 0 = minimal

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 Simple Green® Pro HD 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® Pro HD.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Substances Present: None

SARA Substances Present: None *see page 3 of 3

Section 4: FIRST AID MEASURES

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, moving lower and upper eyelids away from eye to flush out all product. If irritation persists beyond 12 hours after contact, seek medical attention.

If ingested: Drink plenty of water to dilute. Stomach or intestinal upset may occur due to deterative properties.

Section 5: FIRE FIGHTING MEASURES

This product is non-flammable, non combustible, and non-explosive. Any form of extinguishing media may be used on and around Simple Green® Pro HD. Please refer to Personal Protective Equipment information found in Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTIVE EQUIPMENT.

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. Identify source of leak or spill and contain with sand, earth, or containment bin. Then proceed to clean up spill or leak.

Section 6: ACCIDENTAL RELEASE MEASURES – continued –

Method for cleaning up: Recover all reusable material. Cover remaining spill with inert absorbent material to soak up spill. Dispose absorbent material as non-hazardous waste. Rinse area with plenty of water and mop to sanitary sewer.

Section 7: HANDLING AND STORAGE

No special handling is required. Avoid contact with eyes. Wash hands thoroughly after handling.

Keep in a closed plastic or stainless steel container. Store at ambient temperature. Avoid excessive heat.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye contact: Access to eye bath or water source is recommended in case of eye contact. Thoroughly wash hands after contact to prevent hand to eye transference.

Inhalation: Use exhaust ventilation if necessary to keep airborne concentrations below exposure limits.

Eye protection: Wear chemical splash goggles or face shield when eye contact is possible due to splashing or spraying Simple Green® Pro HD.

Skin protection: Gloves or other skin protection are generally not needed under normal use conditions of Simple Green® Pro HD. Prolonged soaking in the product, 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:	Purple Liquid	Vapor Pressure:	20.7 mm Hg
Odor:	Very faint detergent-like odor	Density:	8.546 lbs/gal. // 1.024 gm/L
Specific Gravity:	1.025 ± 0.015	Water Content:	> 70%
pH:	10.9 ± 0.8	Water Solubility:	100%
Boiling Point:	210°F	Evaporation Rate:	9.54% per hour
Flash Point:	None (ASTM D-93)	Solubility:	Miscible with water
Flame Extension:	N/A	Insoluble Matter:	<0.01%
Freezing Point:	Approx 0°C	Percent Volatiles:	85.26% (ASTM-D2369)
Nutrient Content:	Nitrogen: <0.1% (0% by formula) Phosphorous: <0.25% (by formula) Sulfur: <0.1% (0% by formula)	VOC: 80 g/L per EPA Method 24 test results. <i>Complies with SCAQMD regulations for solvent cleaning operations when diluted 1-part-Pro HD to 3 parts water. Otherwise, dilute at least 1:1 for all other air quality regulatory compliance.</i>	

Section 10: STABILITY AND REACTIVITY

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

Section 11: TOXICOLOGICAL INFORMATION

Acute Toxicity: Oral LD₅₀ (rat) >10 g/kg body weight
 Dermal LD₅₀ (rabbit) >10 g/kg body weight

Toxicity extrapolated from ingredients using OECD 33 calculation method.
 Animal testing not conducted.

Eye Irritation: Moderate / Mild reversible eye irritation may occur based on relevant laboratory studies. This potential is reduced by immediate rinsing of eyes in case of eye contact.

Section 11: TOXICOLOGICAL INFORMATION – continued –

Dermal Irritation: Mild, reversible skin irritation may occur based on relevant laboratory studies. A 6-hour exposure to human skin under a patch did not produce irritation.

Repeat Exposure Via Skin Contact: Based on relevant laboratory studies, no toxic effects are expected to be associated with daily skin exposures (with up to 2 g/kg/day tested for 13 weeks on rabbits). Skin irritation may, however, occur with repeated or prolonged exposures.

Reproductive Effects Assessment: Based on Relevant laboratory studies (CD-1 mouse 18-week fertility assessment continuous breeding), no adverse effects on reproduction, fertility, or health of offspring are expected.

Note: Simple Green Pro HD has an extremely unpleasant taste. This is expected to minimize the risks of substantial oral ingestion by humans and domestic animals or by wild animals or birds.

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 ₅₀ for freshwater fish and Daphnia estimated to be > 200 ppm
Chemical Fate Information:	When tested by OECD 301D, Closed Bottle Test for Biodegradability, Simple Green® Pro HD was found to be readily biodegradable , achieving an estimated 100% degradation rate at the target concentration of 2 mg/L. More than 70% degradation occurred within two weeks of testing. Based on formula and ready biodegradability, the bioaccumulation potential is low.

Additional information can be found in Section 15: REGULATORY INFORMATION.

Section 13: DISPOSAL CONSIDERATIONS

Appropriate Method for Disposal of Simple Green® Pro HD:

Unused Product:	*Dilute with water to use concentration (1:10 or greater) 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

IATA Proper Shipping Name: Detergent solution

Hazard Class: Non-hazardous

Section 15: REGULATORY INFORMATION

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