Section 1: IDENTIFICATION

Product Name: Simple Green® d Pro 5 Disinfectant – Cleaner – Sanitizer – Fungicide – Mildewstat– Virucide* – Deodorizer
Additional Names:

Manufacturer's Part Number: **Please refer to Section 16*

Recommended Use: Hard non-porous disinfectant and sanitizer.
Restrictions on Use: Non-disinfecting uses.

Company: Sunshine Makers, Inc.
15922 Pacific Coast Highway
Huntington Beach, CA 92649 USA
Telephone: 800-228-0709 ● 562-795-6000 *Mon – Fri, 8am – 5pm PST*
Fax: 562-592-3830
Email: info@simplegreen.com
Emergency Phone: Chem-Tel 24-Hour Emergency Service: 800-255-3924

Section 2: HAZARDS IDENTIFICATION

This product is classified as hazardous (Skin Corrosive/Irritant – Category 1; Acute Toxicity – Oral 4; Acute Toxicity – Dermal 5) under 2012 OSHA Hazard Communication Standards (29 CFR 1910.1200).

OSHA HCS 2012
Label Elements
Signal Word: Danger

Hazard Symbol(s)/Pictogram(s):

Hazard Statements:
H302 – May be harmful if swallowed.
H313 – May be harmful in contact with skin.
H314 – Causes severe skin burns and eye damage.

Precautionary Statements:
P260 – Do not breathe dusts or mists.
P264 – Wash hands thoroughly after handling.
P270 – Do not eat, drink or smoke when using this product.
P280 – Wear protective gloves and eye protection.
P301 + P330 + P331 – IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P312 – Call a poison center/doctor.
P303 + P361 + P353 – IF ON SKIN (or hair) Take off immediately all contaminated clothing. Rinse skin with water/shower.
P363 – Wash contaminated clothing before reuse.
P312 – Call a poison center if you feel unwell.
P304 + P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310 – Immediately call a Poison Center/Doctor.
P321 – Specific treatment (see first aid on this label).
P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405 – Store locked up.
P501 – Dispose of contents/container in accordance with local, regional, and national regulations.

Hazards Not Otherwise Classified (HNOC): None

Other Information: None Known

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS Number	Percent Range
Water	7732-18-5	≥ 88%*
Di-n-alkyl (C8/C10 50%, C10/C10 30%, C8/C8 20%) dimethyl ammonium chloride		
Octyl decyl dimethyl ammonium chloride	68424-95-3	1.65%
Didecyl dimethyl ammonium chloride	7173-51-5	0.99%
Dioctyl dimethyl ammonium chloride	5538-94-3	0.66%
n-Alkyl (C14 50%, C12 40%, C16 10%) dimethyl benzyl ammonium chloride	68424-85-1	2.20%
Ethoxylated Alcohol	68131-39-5	≤ 3%*
Tetrasodium EDTA	64-02-8	≤ 2%*
Ethanol	64-17-5	≤ 1%*
Sodium Metasilicate	6834-92-0	≤ 1%*
Nitrilotriacetate NTA	5064-31-3	≤ 1%*
Sodium Hydroxyacetate	2836-32-0	≤ 1%*

**specific percentages of composition are being withheld as a trade secret*

Section 4: FIRST-AID MEASURES

Inhalation: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Remove from area to fresh air. Get immediate medical attention. If not breathing, clear airway and start artificial respiration. If victim is having trouble breathing, give supplemental oxygen if available. Immediately call a Poison Center/Doctor.

Skin Contact: Causes skin corrosion. IF ON SKIN (or hair) Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a Poison Center/Doctor.

Eye Contact: Causes serious eye damage. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a Poison Center/Doctor.

Ingestion: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a Poison Center/Doctor. If swallowed, immediately give 3-4 glasses of milk (in unavailable, give water.) Do not induce vomiting. If vomiting does occur, give fluids again. Get immediate medical attention. Have physician determine if patient's condition allows for induction of vomiting or evacuation of the stomach. Do not give anything by mouth to an unconscious or convulsing person. Note to Physician: Possible mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, as well as oxygen and measures to support breathing manually or mechanically may be needed.

Most Important Symptoms/Effects, Acute and Delayed: None known.

Indication of Immediate Medical Attention and Special Treatment Needed, if necessary: Treat symptomatically

Section 5: FIRE-FIGHTING MEASURES

Suitable & Unsuitable Extinguishing Media: Use Dry chemical, CO2, water spray or "alcohol" foam. Avoid high volume jet water.

Specific Hazards Arising from Chemical: In event of fire, fire created carbon oxides, ammonia, nitrogen chloride, nitrogen oxides may be formed.

Special Protective Actions for Fire-Fighters: Must wear NIOSH/MSHA approved self-containing breathing apparatus and protective clothing. Cool fire-exposed containers with water spray.

This product is non-flammable. See Section 9 for Physical Properties.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures: *For non-emergency and emergency personnel:* See section 8 – personal protection. DANGER! May cause severe irritation. Wear appropriate protective equipment and NIOSH/MSHA approved respirator where mists or vapors of unknown concentrations may be generated. Self-contained breathing apparatus may be necessary for very large spills.

Section 6: ACCIDENTAL RELEASE MEASURES - continued

Environmental Precautions: Do not allow into open waterways and ground water systems.

Methods and Materials for Containment and Clean Up: Dike or soak up with inert absorbent material. See section 13 for disposal considerations.

Section 7: HANDLING AND STORAGE

Precautions for Safe 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. Do not mix or contaminate with any other chemical. Do not eat, drink or smoke while using this product.

Conditions for Safe Storage including Incompatibilities: Keep container tightly closed. Keep in cool dry area. Avoid prolonged exposure to sunlight. Do not store at temperatures above 109°F (42.7°C). Store in original container in areas inaccessible to children. Do not store on side. Avoid creasing or impacting of side walls. Offer for recycling if available or discard in trash. Nonrefillable container. Do not reuse or refill this container. Store concentrate and dilutions in HDPE packaging only.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limit Values:

Ethanol 64-17-5	California, Connecticut, Idaho, Michigan, Minnesota, OSHA, New York, Oregon, Tennessee, Vermont, Washington	1000 ppm; 1900 mg/m^3 PEL/TWA 1250 ppm STEL; 1000 ppm TWA

Appropriate Engineering Controls: Showers & eyewash stations. In processes where mists or vapors may be generated, proper ventilation must be provided in accordance with good ventilation practices.

Individual Protection Measures / Personal Protective Equipment (PPE)

Eye Contact: Where chemical splash goggles where there is potential for eye contact. Use safety glasses with side shields when there is no potential for eye contact.

Respiratory: When necessary, NIOSH/MSHA jointly approved respirator is advised in the absence of proper environmental controls.

Skin Contact: Rubber or neoprene, to prevent skin contact with concentrate.

General Hygiene Considerations: Wash thoroughly after handling and before eating or drinking.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear to light straw Liquid
Odor: No added odor
Odor Threshold: Not determined
pH: 11.0 – 12.5
Freezing Point: 0°C (32°F)
Boiling Point & Range: 101°C (213.8°F)
Flash Point: > 200°F
Evaporation Rate: Not determined
Flammability (solid, gas): Not determined
Upper/Lower Flammability or Explosive Limits: Not applicable
Vapor Pressure: Not determined
Vapor Density: Not determined

Partition Coefficient: n-octanol/water: Not determined
Autoignition Temperature: Non-flammable
Decomposition Temperature: 109°F
Viscosity: Like water
Specific Gravity: 1.00 – 1.02
VOCs: ***Water & fragrance exemption in calculation*
SCAQMD 304-91 / EPA 24: Not tested
CARB Method 310**: 6.8 g/L 0.059 lb/gal 0.68%
SCAQMD Method 313: Not tested
VOC Composite Partial Pressure: Not determined
Relative Density: 8.34 – 8.56 lb/gal
Solubility: 100% in water

Section 10: STABILITY AND REACTIVITY

Reactivity:	Non-reactive.
Chemical Stability:	Stable under normal conditions 70°F (21°C) and 14.7 psig (760 mmHg).
Possibility of Hazardous Reactions:	Reactive with oxidizers
Conditions to Avoid:	Excessive heat or cold.
Incompatible Materials:	Strong oxidizing or reducing agents. Do not mix with strong oxidizers (Hydrogen Peroxide, "bleach", Sodium Hypochlorite), acids, strong alkalines, disinfectants, antibacterials, antimicrobials, bathroom cleaners or any type of stain remover.
Hazardous Decomposition Products:	Thermal decomposition may produce toxic vapors/fumes of hydrogen chloride, amines, and other materials, and oxides of carbon and nitrogen.

Section 11: TOXICOLOGICAL INFORMATION

Likely Routes of Exposure:	Inhalation -	Mists or vapors of this concentrate may cause irritation of mucous membranes.
	Skin Contact -	Skin Corrosive.
	Eye Contact -	Eye Corrosive.
	Ingestion -	Ingestion may cause burning pain in the mouth, throat and abdomen; swelling of the larynx; circulatory shock and/or convulsions.

Symptoms related to the physical, chemical and toxicological characteristics: no symptoms expected under typical use conditions.

Delayed and immediate effects and or chronic effects from short term exposure: No health effects information available for human exposure. Based on the available animal toxicity information for similar materials, it is anticipated that direct contact with this concentrate may possibly produce severe eye or skin irritation.

Delayed and immediate effects and or chronic effects from long term exposure: No health effects information available for human exposure. Based on the available animal toxicity information for similar materials, Prolonged exposures may cause chemical burns with possible irreversible damage. Ingestion may cause burning pain in the mouth, throat and abdomen; swelling of the larynx; circulatory shock and/or convulsions. Mists or vapors of this concentrate may cause irritation of mucous membranes

Interactive effects: Not known.

Numerical Measures of Toxicity

Acute Toxicity:	Oral LD_{50} (rat)	300 – 2000 mg/kg
	Dermal LD_{50} (rabbit)	2000 – 5000 mg/kg

No toxicity information is available for this specific material. This toxicity information provided is for similar formulations.

Skin Corrosion/Irritation:	Skin corrosive per calculation. No animal testing performed.
Eye Damage/Irritation:	Serious eye damage per calculation. No animal testing performed.
Germ Cell Mutagenicity:	Mixture does not classify under this category.
Carcinogenicity:	Mixture does not classify under this category. Contains < 0.2% Nitrolotriacetic acid NTA – IARC 2B.
Reproductive Toxicity:	Mixture does not classify under this category.
STOT-Single Exposure:	Mixture does not classify under this category.
STOT-Repeated Exposure:	Mixture does not classify under this category.
Aspiration Hazard:	Mixture does not classify under this category.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity:	Volume of ingredients used does not trigger toxicity classifications under the Globally Harmonized System of Classification and Labelling of Chemicals.
Aquatic:	Not tested on finished formulation.
Terrestrial:	Not tested on finished formulation.

Persistence and Degradability: No data available.

Section 12: ECOLOGICAL INFORMATION - continued

Bioaccumulative Potential: No data available.
Mobility in Soil: No data available.
Other Adverse Effects: No data available.

Section 13: DISPOSAL CONSIDERATIONS

Unused or Used Liquid
PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Empty Containers:
CONTAINER DISPOSAL: Nonrefillable containers. Do not reuse or refill this container. Clean containers promptly after emptying. Triple rinse as follows: Fill containers ¼ full with water and reclose the container. Agitate vigorously, and dispose of rinsate consistent with pesticide disposal instructions. Repeat two more times. Then offer for recycling if available or puncture and dispose in sanitary landfill or by other procedures approved by state and local authorities. Follow pesticide disposal instructions for rinsate. If not triple rinsed, these containers are acute hazardous wastes and must be disposed in accordance with local, state, and federal regulations.

Never dispose of used degreasing rinsates into lakes, streams, and open bodies of water or storm drains.

Section 14: TRANSPORT INFORMATION

U.N. Number:	Not applicable	**U.N. Proper Shipping Name:**	Cleaning Compound, Liquid NOI
Transport Hazard Class(es):	Not applicable	**NMFC Number:**	48580-3
Packing Group:	Not applicable	**Class:**	55
Environmental Hazards:	Marine Pollutant - NO		

Transport in Bulk (according to Annex II of MARPOL 73/78 and IBC Code): Unknown.
Special precautions which user needs to be aware of/comply with, in connection with transport or conveyance either within or outside their premises: None known.

U.S. (DOT) / Canadian TDG:	Not Regulated for shipping.	**ICAO/ IATA:**	Not classified as Hazardous
IMO / IDMG:	Not classified as Hazardous	**ADR/RID:**	Not classified as Hazardous

Section 15: REGULATORY INFORMATION

Federal Insecticide, Fungicide and Rodenticide Act (FIFRA)
This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

HAZARDS TO HUMANS AND DOMESTIC ANIMALS. DANGER. Corrosive. Causes irreversible eye damage and skin burns. Do not get in eyes, on skin or on clothing. Wear protective eyewear (goggles, face shield or safety glasses), protective (rubber or chemical resistant) gloves and protective clothing. Harmful if swallowed or absorbed through the skin. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse

FIRST AID
IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye.
IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.

Section 15: REGULATORY INFORMATION - continued

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

Call a poison control center or doctor for treatment advice. Have the product container or label with you when calling poison control center or doctor or going for treatment.

EPA REGISTERATION NUMBER: 6836-140-56782

All components are listed on: TSCA and DSL Inventory.

SARA Title III: Sections 311/312 Hazard Categories

	CAS #	Hazard Category	Typical Max. Concentration
N, N-Dialkyl (C_{8-20})-N, N-dimethylammonium Chloride	68424-95-3	A	3.3%
N-Alkyl (C_{12-16}) dimethyl benzyl ammonium chloride	68424-85-1	A	2.2%
Ethanol	64-17-5	F	1.1%

SARA Title III: Sections 313 Superfunds Amendments and Reauthorizations Act of 1986 – Not applicable.
Sections 302 – Not applicable.

Clean Air Act (CAA): Ethanol 64-17-5
Clean Water Act (CWA): Not applicable

State Right To Know Lists:

Ethanol 64-17-5	Massachusetts, New Jersey, Pennsylvania
Nitrilotriacetic acid NTA 5064-31-3	Massachusetts
Benzene 71-43-2 (5 ppm max)	Massachusetts
Benzyl Chloride 100-44-7 (10 ppm max)	Massachusetts
Propylene oxide 75-56-9 (1 ppm max)	Massachusetts

California Proposition 65:

Chemical Name	CAS Number	Typical Maximum Concentration
Acetaldehyde	75-07-0	250 ppb
Benzene	71-43-2	5 ppm
Benzyl Chloride	100-44-7	10 ppm
1,4 – Dioxane	123-91-1	250 ppb
Ethylene Oxide	75-21-8	25 ppb
N-Nitrosodimethylamine	62-75-9	50 ppb
Propylene oxide	75-56-9	1 ppm
Toluene	108-88-3	10 ppm

Texas ESL:

Ethoxylated Alcohol	68131-39-5	60 µg/m^3 long term	600 µg/m^3 short term
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1	10 µg/m^3 long term	100 µg/m^3 short term
Sodium Metasilicate	6834-92-0	5 µg/m^3 long term	50µg/m^3 short term
Ethanol	64-17-5	1000 ppb; 1880 µg/m^3 long term	10000 ppb; 18800 µg/m^3 short term
Tetrasodium EDTA	64-02-8	5 µg/m^3 (PM10); 100 µg/m^3 (Vapor) long term	50 µg/m^3 (PM10); 1000 µg/m^3 (Vapor) short term
Nitrilotriacetic acid NTA	5064-31-3	5 µg/m^3 long term	50 µg/m^3 short term
Sodium Glycolate	2836-32-0	25 µg/m^3 long term	250 µg/m^3 short term

Section 16: OTHER INFORMATION

Size	Part Number	UPC
32 oz.	34000001305032	043318305320
32 oz., 12 per case	30532 & 3410001230532	043318305320
1 Gallon	3000000130501	043318305016
1 Gallon, 4 per case	30501 & 3410000430501	043318305016
5 Gallon	30505 & 3400000130505	043318305054
55 Gallon	30555 & 3400000130555	043318305559
275 Gallon	3400000130575	043318305757

USA items listed only. Not all items listed. USA items may not be valid for international sale.

NFPA:

Health – Eye and Skin Corrosive
Flammability – Slight
Stability – Stable
Special - None

Acronyms

NTP	National Toxicology Program	IARC	International Agency for Research on Cancer
OSHA	Occupational Safety and Health Administration	CPSC	Consumer Product Safety Commission
TSCA	Toxic Substances Control Act	DSL	Domestic Substances List
A	Immediate (Acute)	F	Fire Hazard

Prepared / Revised By: Sunshine Makers, Inc., Regulatory Department.
This SDS has been revised in the following sections: Additional CAS numbers disclosed in section 3

DISCLAIMER: The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.