

Section 1: PRODUCT & COMPANY IDENTIFICATION

Product Name: Simple Green d Pro 5^o
 Additional Names: Simple Green d Pro 5^o Disinfectant – Cleaner – Sanitizer – Fungicide – Mildewstat – Virucide* - Deodorizer
 Manufacturer's Product Code Numbers:

| | <u>US Label</u> | <u>Canadian Label</u> |
|--|-------------------------------|------------------------|
| | 30532 - 32 oz. Bottle (12/cs) | 39501 - 3.78 L (4/cs) |
| | 30501 - 1 Gal. Bottle (4/cs) | 39505 - 18.92 L (ea) |
| | 30505 - 5 Gal. Pail (ea) | 39555 - 208.17 L (ea) |
| | 30555 - 55 Gal. Drum (ea) | 39532 - 946 mL (12/cs) |

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

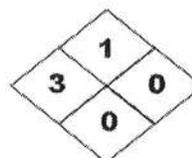
Use of Product Concentrate that must be diluted prior to use. Used for cleaning, disinfecting, sanitizing and deodorizing hard non-porous surfaces. Read product label for complete usage information and directions.

EPA Registration Number: 6836-140-56782 Canadian DIN Number: 02281996

****MSDS INFORMATION CONCERNS THE CONCENTRATE, NOT USE-SOLUTIONS UNLESS NOTED****

Section 2: HAZARDS IDENTIFICATION

Emergency Overview: **DANGER!**
 Routes of Entry: Skin contact; Eye Contact; Inhalation



NFPA/HMIS Rating:
 Health = 3 = serious
 Flammability = 1 = slight
 Reactivity = 0 = minimal

CCOHS/WHMIS: Not Regulated

Carcinogens: Chemicals not listed as known carcinogens under NTP, IARC and OSHA.

Please refer to section 4 for First Aid Procedures.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Active Ingredient | EPA Registration Number | TWA/TLV | |
|---|-------------------------|---|-------------------------|
| Bardac 208-M (80% active) | 6836-67 | None Established | |
| To Provide..... | | CAS Number | Approx. Weight % |
| Di-n-alkyl (C ₈ /C ₁₀ 50%, C ₁₀ /C ₁₀ 30%, C ₈ /C ₈ 20%) dimethyl ammonium chloride | | 68424-95-3 | |
| | | Didecyl dimethyl ammonium chloride..... | 0.99 |
| | | Octyl decyl dimethyl ammonium chloride..... | 1.65 |
| | | Diocetyl dimethyl ammonium chloride..... | 0.66 |
| n-Alkyl (C ₁₄ 50%, C ₁₂ 40%, C ₁₆ 10%) dimethyl benzyl ammonium chloride: | | 68424-85-1 | |
| Alkyl (C ₁₄ 50%, C ₁₂ 40%, C ₁₆ 10%) dimethyl benzyl ammonium chloride | | | 2.20 |

This product does not contain nonylphenol ethoxylate.

Section 4: FIRST AID MEASURES

This information applies to the concentrated product. Use-solutions present greatly diminished degrees of health effects.

- If in eyes:** Immediately flush eyes with large amounts of running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eye and lids with water. Get immediate medical attention.
- If on skin:** Wash with plenty of running water and soap if available for 15 minutes. Remove contaminated clothing and shoes. Get immediate medical attention. Wash clothing and decontaminate shoes before reuse.
- If ingested:** 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.
- If inhaled:** 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.

Section 5: FIRE FIGHTING MEASURES

- | | | | |
|-------------------------------|---|-----------------------------------|----------------|
| Flash Point: | > 200°F | Auto Ignition Temperature: | Not Known |
| Lower Explosion Limit: | Not Applicable | Upper Explosion Limit: | Not Applicable |
| Extinguishing Media: | Alcohol Foam; CO ₂ ; Dry Chemical; Water | | |
- Special Fire Fighting Measures:** Must wear NIOSH/MSHA approved self-containing breathing apparatus and protective clothing. Cool fire-exposed containers with water spray.
- Unusual Fire and Explosion Hazards:** Products of combustion are toxic.

Section 6: ACCIDENTAL RELEASE MEASURES

Steps to be taken in case of spill or release of concentrate: DANGER! May cause severe irritation. Remove all persons from spill area. 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. Dike and contain spill with inert material (sand, earth, clay, etc.) and transfer the liquid and solid separately to containers for recovery or disposal. Keep spill out of sewers and open bodies of water.

Section 7: HANDLING AND STORAGE

- Maximum Storage Temperature:** 140°F
- Keep containers closed when not in use.
- Do not contaminate drinking water, food or feed by storage or disposal.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Effects of Overexposure: 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. Prolonged exposures may cause: headache, irritation of the eyes, nose and throat, drowsiness, lassitude, loss of appetite and inability to concentrate. Prolonged contact with concentrate 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.

- Engineering Controls:** In processes where mists or vapors may be generated, proper ventilation must be provided in accordance with good ventilation practices.
- Respiratory Protection:** When necessary, NIOSH/MSHA jointly approved respirator is advised in the absence of proper environmental controls.
- Protective Gloves:** Rubber or neoprene, to prevent skin contact with concentrate.
- Eye Protection:** 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.
- Other Protective Equipment:** Eye wash; safety shower; protective clothing (long sleeves, coveralls, or other, as appropriate), when needed to prevent skin contact.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|--------------------------|--|------------------------------------|------------------|
| Appearance: | Clear Light-Straw Colored Liquid | pH: | 11 – 12 |
| Odor: | Faint soapy/detergent – non-fragrance | Percent Volatile by Weight: | 90% |
| Specific Gravity: | 1 .01 @ 25°C (water = 1.0) | Viscosity: | < 100 cps @ 25°C |
| VOCs: | Concentrated solution is 4.237% Per California ARB Method 310. | | |

Section 10: STABILITY AND REACTIVITY

| | |
|--|--|
| Stability: | This product is stable. |
| Hazardous polymerization: | Will not occur. |
| Hazardous Decomposition Products: | Thermal decomposition may produce toxic vapors/fumes of hydrogen chloride, amines, and other materials, and oxides of carbon and nitrogen. |
| Materials to Avoid: | Chlorine, Bleach, Oxygenizing Agents, Ammonia. |

Section 11: TOXICOLOGICAL INFORMATION

Oral LD50 = 2800 mg/kg (rat)

Dermal LD50 = 2850 mg/kg (rabbit)

DOT Skin Corrosivity = non-corrosive (rabbit)

**** Skin irritation @ 1:64 dilution = Not an irritant (primary irritation index = 0.0)**

Eye Irritation = (rabbit) extreme irritant (primary irritation index = 97.5 without washing; 93.9 with washing)

**** Eye irritation @ 1:64 dilution = Has not been calculated.****Section 12: ECOLOGICAL INFORMATION**

No information available.

Section 13: DISPOSAL CONSIDERATIONS**Waste Disposal Methods:** Dispose of in compliance with all Federal, state and local laws, and regulations. Incineration is the preferred method.**Container Disposal:** Triple Rinse (or equivalent), then offer for recycling or reconditioning or puncture and dispose of in sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.**Section 14: TRANSPORT INFORMATION**

DOT Hazard Classification: Non-Hazardous
 DOT Shipping Name: Not regulated
 TDG (Transport of Dangerous Goods): Not regulated

DOT Label: None
 CAS No.: Mixture

Section 15: REGULATORY INFORMATION**FEDERAL REGULATION:****TSCA INVENTORY STATUS:** All ingredients found in U.S. EPA TSCA inventory**CERCLA:** No ingredients regulated**SARA Title III 302/304:** No reportable ingredients**SARA Title III 311/312** reportable ingredients:

| | <u>CAS #</u> | <u>Hazard Category</u> | <u>Typical Max. Concentration</u> |
|--|--------------|------------------------|-----------------------------------|
| 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% |

A = Immediate (Acute) F = Fire Hazard

SARA Title III 313: No reportable ingredients.

Section 15: REGULATORY INFORMATION – continued -**State Right-To-Know Regulations:****CALIFORNIA – Proposition 65**

| <u>Chemical Name</u> | <u>CAS Number</u> | <u>Typical Maximum Concentration</u> |
|------------------------|-------------------|--------------------------------------|
| 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 |

MASSACHUSETTS –

| <u>Chemical Name</u> | <u>CAS Number</u> | <u>Typical Maximum Concentration</u> |
|----------------------|-------------------|--------------------------------------|
| Benzene | 71-43-2 | 5 ppm |
| Benzyl Chloride | 100-44-7 | 10 ppm |
| Propylene oxide | 75-56-9 | 1 ppm |

MICHIGAN – This material does not contain any components that are included in the Michigan Critical Materials List.

NEW JERSEY –

| | | |
|--|------------------|---------------------------------|
| N, N-Dialkyl (C ₈₋₂₀)-N, N-dimethylammonium Chloride | CAS # 68424-95-3 | Typical Max. Concentration 3.3% |
| N-Alkyl (C ₁₂₋₁₆) dimethyl benzyl ammonium chloride | CAS # 68424-85-1 | Typical Max. Concentration 2.2% |
| Ethanol | CAS # 64-17-5 | Typical Max. Concentration 1.1% |

PENNSYLVANIA –

| | | |
|---------|---------------|---------------------------------|
| Ethanol | CAS # 64-17-5 | Typical Max. Concentration 1.1% |
|---------|---------------|---------------------------------|

INTERNATIONAL REGULATION:

WHMIS Classification: Not Regulated

All components listed on Canadian DSL

| | | |
|------|--|----------------|
| Name | Toxic Substances List – Schedule 1 – CEPA (Canadian Environmental Protection Act) | NPRI Inventory |
| | Contains no reportable ingredients and/or at levels below reportable limit. | |

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 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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