MATERIAL SAFETY DATA SHEET: SIMPLE GREEN d°

I. PRODUCT & COMPANY INFORMATION

PRODUCT NAME:

SIMPLE GREEN d® - CLEANER / DISINFECTANT / DEODORIZER

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COMPANY NAME:

SUNSHINE MAKERS, INC.

Version No. 2005

15922 Pacific Coast Highway

Issue Date: January 2003

Huntington Harbour, CA 92649 USA Telephone: 800-228-0709 • 562-795-6000

Fax: 562-592-3034

Website: www.simplegreen.com

For 24-hour emergency, call Chem-Tel, Inc.: 800-255-3924

USE OF PRODUCT:

A concentrated hard surface cleaner and disinfectant for institutional degreasing, disinfecting, and deodorizing; effective against Human Immunodeficiency Virus (HIV-1), and gram positive and gram

negative bacteria, including Staphylococcus aureus, Pseudomonas aeruginosa, Salmonella

chloreraesuis, Streptococcus pyogenes, and Escherichia coli.

U.S. EPA REGISTRATION NO.: 56782-1

CANADA P.C.P. ACT REGISTRATION NO.: 25034

II. INGREDIENT INFORMATION

		Exposure Limits (ppm) for Undiluted Materials
Ingredients	CAS Number	OSHA PEL ACGIH TLV
Active:		
Octyl decyl dimethyl ammonium chloride	111-03-8	None established
Dioctyl dimethyl ammonium chloride	5538-94-3	None established

Dioctyl dimethyl ammonium chloride 5538-94-3
Didecyl dimethyl ammonium chloride 7173-51-5
Alkyl (C14, 50%; C12, 40%; C16, 10%)
dimethyl benzyl ammonium chloride 68424-85-1

None established

Inert: Surfactants Wetting Agents Buffers

None established None established None established

III. HAZARDS IDENTIFICATION

Hazard Rating (NFPA/HMIS)

Health = 1*

Reactivity = 0

Fire = 0

Special = 0

100

Rating Scale

0 = minimal

1 = slight

2 = moderate

3 = serious

4 = severe

*Mild eye irritant - non-mutagenic and non-carcinogenic.

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	IV. FIRST AID	MEASURES
Eye contact:	Immediately rinse the eye with large quantities of cool water; continue 10-15 minutes or until the mat has been removed. If present, contact lenses should be removed immediately. Both upper and lower should be lifted to facilitate thorough rinsing.	
Skin contact:	Minimal effects, if any, from diluted product; before reuse. Reversible reddening may occ	rinse skin with water, rinse shoes and launder clothing our in some dermal-sensitive users; thoroughly rinse area.
Swallowing:	Essentially nontoxic. Give several glasses of If stomach upset occurs, consult physician.	milk or water to dilute; do not induce vomiting.
Inhalation:	Nontoxic. Prolonged exposure of workers to irritation of nasal passages or throat. Relocal	concentrate-mist during spray application may cause mild te workers to fresh air.
	V. FIRE FIGHTING	G MEASURES
Simple Green d [©]	is stable and will not burn.	
Extinguishing Me Special Fire Figh	edia: Not flammable/nonexplo ting Procedures: None required.	sive. No special procedures required.
	VI. ACCIDENTAL REL	EASE MEASURES
Recover usable r	naterial by convenient method; residual may be r	removed by wipe or wet mop.
The state of the s	VII. HANDLING, STORAGE & T	RANSPORT INFORMATION
No special precau of Transportation MDG and the UN	Regulations. This material does not meet the de	or storage and transport according to the U.S. Department finition of a hazardous material according to 49 CFR, ICAO,
	VIII. EXPOSURE	CONTROLS
exposure Limits label direction contact in Se	ns for its intended purposes. Mild skin and eye i	health hazards to the user when used according to rritation is possible (please see Eye contact and Skin
/entilation: No	special ventilation is required during use.	
luman Health Ef	fects or Risks from Exposure: Adverse huma	an health effects are not expected from Simple Green d
based upon t	he available toxicity data. Simple Green d [®] is a concentrate-mist.	mild eye irritant; mucous membranes may become
Prolonged sl or continuous	kin contact with Simple Green d [®] may irritate the s contact of Simple Green d [®] on the skin may lea	skin. Repeated daily application to the skin without rinsing, ad to irritation. Allergic reactions are not anticipated.

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IX. PERSONAL PROTECTION

Precautionary Measures:

No special requirements under normal use conditions.

Eye Protection:

Caution, including reasonable eye protection, should always be used to avoid eye contact

where splashing may occur, such as during spray applications.

Skin Protection:

No special precautions required; rinse completely from skin after contact.

Respiratory Protection:

No special precautions required.

Χ. PHYSICAL AND CHEMICAL PROPERTIES

Appearande/odor:

Solubility in Water:

Transparent green liquid with characteristic sassafras odor.

Freezing Point: Boiling Point: Specific Gravity: -9 °C (16 °F)

98 °C (209 °F)

1.011

Completely soluble in fresh and salt water.

Vapor Pressure: Vapor Density:

1.3 (air = 1)

pH of concentrate: 9.5

Evaporation rate: 0.4 (butyl acetate = 1)

25 mm Ha

XI. STABILITY AND REACTIVITY INFORMATION

Nonreactive. Simple Green d® is stable, even under fire conditions, and will not react with water, acids, or oxidizers.

XII. TOXICOLOGICAL INFORMATION

Nonhuman Toxicity

Acute Mortality Studies:

Oral LD₅₀ (rat):

>5.0 g/Kg body weight

Dermal LD₅₀ (rabbit): >2.0 g/Kg body weight

Dermal Irritation: In a standard test on rabbits, mild irritation was found at 72 hours; well-defined reddening was observed at 7 and 14 days after exposure.

Dermal Sensitization: No allergic reactions occurred in guinea pigs treated with Simple Green de.

Eye Irritation: With or without rinsing with water, the irritation scores in rabbits at 24 hours did not exceed 17 (mild irritant) on a scale of 110 (extremely irritating); all scores were normal at seven days.

Carcinogenicity: Simple Green de contains no carcinogenic compounds as defined by the National Toxicology Program (NTP), the International Agency for Research on Carcinogens (IARC), or the Occupational Health and Safety Administration (OSHA).

XIII. DISPOSAL CONSIDERATIONS

Simple Green do is fully water soluble, and with dilution is biodegradable. If disposed by sewer or drain, diluted solutions will not harm sewage-treatment microorganisms. Dispose of in accordance with all applicable local, state, and federal laws.

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IV. OTHER INFORMATION

Efficacy Information

Virucidal:

Simple Green d[®] kills HIV-1, the human immunodeficiency virus associated with Acquired Immune Deficiency in humans. In a standard test, a 1:10 dilution of Simple Green d[®] in hard water was virucidal for HIV after a 10-minute exposure under an organic load simulated by 5% blood serum.

Bactericidal:

Simple Green d[®] kills gram positive and gram negative bacteria, including *Staphylococcus aureus*, *Pseudomonas aeruginosa*, *Salmonella chloreraesuis*, *Streptococcus pyogenes*, and *Escherichia coli*. Efficacy was demonstrated in a standard test using a 10-minute exposure, 5% organic (blood serum) load and a 1:10 dilution of Simple Green d[®].

General Information

Containers:

Simple Green d[®] residues can be completely removed by rinsing with water; the container may be recycled.

*** NOTICE ***

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