

Section 1: IDENTIFICATION**Product Name:** Crystal Simple Green® Industrial Cleaner & Degreaser**Additional Names:****Manufacturer's Part Number:** *Please refer to Section 16**Recommended Use:** Cleaner & Degreaser for water tolerant surfaces.**Restrictions on Use:** Do not use on non-rinsable surfaces.**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 (Eye Irritant Category 2B) under 2012 OSHA Hazard Communication Standards (29 CFR 1910.1200).

OSHA HCS 2012Label Elements**Signal Word:** Warning**Hazard Symbol(s)/Pictogram(s):** None**Hazard Statements:**

H320 – Causes eye irritation.

Precautionary Statements:

P264 – Wash hands thoroughly after handling.

P305 + P351 + P338 – IF IN EYS: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 – If eye irritation persists: Get medical advice/attention.

Hazards Not Otherwise Classified (HNOC): None Known**Other Information:** None Known**Section 3: COMPOSITION/INFORMATION ON INGREDIENTS**

| <u>Ingredient</u> | <u>CAS Number</u> | <u>Percent Range</u> |
|--|-------------------|----------------------|
| Water | 7732-18-5 | > 87%* |
| Ethoxylated Alcohol | 68439-46-3 | < 5%* |
| Sodium Citrate | 68-04-2 | < 5%* |
| Tetrasodium <i>N,N</i> -bis(carboxymethyl)-L-glutamate | 51981-21-6 | < 1%* |
| Sodium Carbonate | 497-19-8 | < 1%* |
| Citric Acid | 77-92-9 | < 1%* |

specific percentages of composition are being withheld as a trade secret*Section 4: FIRST-AID MEASURES****Inhalation:** Not expected to cause respiratory irritation. If adverse effect occurs, move to fresh air.**Skin Contact:** Not expected to cause skin irritation. If adverse effect occurs, rinse skin with water.**Eye Contact:** Causes eye irritation. IF IN EYS: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.**Ingestion:** May cause upset stomach. Drink plenty of water to dilute. See section 11.

Section 4: FIRST-AID MEASURES - continued**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 may be formed.**Special Protective Actions for Fire-Fighters:** Wear positive pressure self-contained breathing apparatus; Wear full protective clothing.*See section 16 for NFPA rating.***Section 6: ACCIDENTAL RELEASE MEASURES****Personal Precautions, Protective Equipment and Emergency Procedures:** *For non-emergency and emergency personnel:* See section 8 – personal protection. Avoid eye contact. Wear safety goggles.**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). If separation occurs, mix the product for reconstitution.**Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION****Exposure Limit Values:** No components listed with TWA or STEL values under OSHA or ACGIH.**Appropriate Engineering Controls:** Showers, eyewash stations, ventilation systems**Individual Protection Measures / Personal Protective Equipment (PPE)**

Eye Contact: Use protective glasses or safety goggles if splashing or spray-back is likely.

Respiratory: Use in well ventilated areas or local exhaust ventilations when cleaning small spaces.

Skin Contact: Use protective gloves (any material) when used for prolong periods or dermally sensitive.

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

Section 9: PHYSICAL AND CHEMICAL PROPERTIES**Appearance:** Clear Colorless Liquid**Odor:** No added odor**Odor Threshold:** Not determined**pH ASTM D-1293:** 9.8 – 10.8**Freezing Point ASTM D-1177:** 0-3.33°C (32-38°F)**Boiling Point & Range ASTM D-1120:** 101°C (213.8°F)**Flash Point ASTM D-93:** > 212°F**Evaporation Rate ASTM D-1901:** ½ Butyl Acetate @ 25°C**Flammability (solid, gas):** Not applicable**Upper/Lower Flammability or Explosive Limits:** Not applicable**Partition Coefficient: n-octanol/water:** Not determined**Autoignition Temperature:** Non-flammable**Decomposition Temperature:** 109°F**Viscosity:** Like water**Specific Gravity ASTM D-891:** 1.01 – 1.03**VOCs:** **Water & fragrance exemption in calculation

SCAQMD 304-91 / EPA 24: 0 g/L 0 lb/gal 0%

CARB Method 310***: 4.0 g/L 0.033 lb/gal 0.4%

SCAQMD Method 313: Not tested

VOC Composite Partial Pressure: Not determined

Section 9: PHYSICAL AND CHEMICAL PROPERTIES - continued

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| Vapor Pressure ASTM D-323: | 0.60 PSI @77°F, 2.05 PSI @100°F | Relative Density ASTM D-4017: | 8.34 – 8.42 lb/gal |
| Vapor Density: | Not determined | Solubility: | 100% in water |

Section 10: STABILITY AND REACTIVITY

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| Reactivity: | Non-reactive. |
| Chemical Stability: | Stable under normal conditions 70°F (21°C) and 14.7 psig (760 mmHg). |
| Possibility of Hazardous Reactions: | None known. |
| Conditions to Avoid: | Excessive heat or cold. |
| Incompatible Materials: | Do not mix with oxidizers, acids, bathroom cleaners, or disinfecting agents. |
| Hazardous Decomposition Products: | Normal products of combustion - CO, CO ₂ . |

Section 11: TOXICOLOGICAL INFORMATION

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| Likely Routes of Exposure: | Inhalation - | Overexposure may cause headache. |
| | Skin Contact - | Not expected to cause irritation, repeated contact may cause dry skin. |
| | Eye Contact - | Causes eye irritation. |
| | Ingestion - | May cause upset stomach. |

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 symptoms expected under typical use conditions.

Delayed and immediate effects and or chronic effects from long term exposure: headache, dry skin, or skin irritation may occur.

Interactive effects: Not known.

Numerical Measures of Toxicity

| | | |
|------------------------|----------------------------------|----------------------|
| Acute Toxicity: | Oral LD ₅₀ (rat) | > 5 g/kg body weight |
| | Dermal LD ₅₀ (rabbit) | > 5 g/kg body weight |

Calculated via OSHA HCS 2012 / Globally Harmonized System of Classification and Labelling of Chemicals

| | |
|-----------------------------------|--|
| Skin Corrosion/Irritation: | Non-irritant per Dermal Irritation® assay modeling. No animal testing performed. |
| Eye Damage/Irritation: | Irritant per Ocular Irritation® assay modeling. No animal testing performed. |
| Germ Cell Mutagenicity: | No ingredients trigger or classify under this category. |
| Carcinogenicity: | No ingredients trigger or classify under this category under NTP, IARC or OSHA. |
| Reproductive Toxicity: | No ingredients trigger or classify under this category. |
| STOT-Single Exposure: | No ingredients trigger or classify under this category. |
| STOT-Repeated Exposure: | No ingredients trigger or classify under this category. |
| Aspiration Hazard: | No ingredients trigger or classify under this category. |

Section 12: ECOLOGICAL INFORMATION

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| 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. |

Section 12: ECOLOGICAL INFORMATION - continued

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| Persistence and Degradability: | Based on similar formulations, foam is expected to be readily biodegradable. |
| 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: May be considered hazardous in your area depending on usage and tonnage of disposal – check with local, regional, and or national regulations for appropriate methods of disposal.

Empty Containers: Dispose of in accordance with local regulations.

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

Section 14: TRANSPORT INFORMATION

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|---|-----------------------------|-----------------------------------|-------------------------------|
| 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

All components are listed on: TSCA and DSL Inventory.

SARA Title III: Sections 311/312 Hazard Categories – Not applicable.
 Sections 313 Superfunds Amendments and Reauthorizations Act of 1986 – Not applicable.
 Sections 302 – Not applicable.

Clean Air Act (CAA): Not applicable
Clean Water Act (CWA): Not applicable

State Right To Know Lists: No ingredients listed
California Proposition 65: No ingredients listed

Texas ESL:

| | | | |
|---------------------|------------|--------------------------------|----------------------------------|
| Ethoxylated Alcohol | 68439-46-3 | 60 µg/m ³ long term | 600 µg/m ³ short term |
| Sodium Citrate | 68-04-2 | 5 µg/m ³ long term | 50 µg/m ³ short term |
| Sodium Carbonate | 497-19-8 | 5 µg/m ³ long term | 50 µg/m ³ short term |
| Citric Acid | 77-92-9 | 10 µg/m ³ long term | 100 µg/m ³ short term |

Section 16: OTHER INFORMATION

| <u>Size</u> | <u>Item Number</u> | <u>UPC</u> |
|----------------------|-------------------------------|--------------|
| 2 oz | 0600000119011 & 0600000119021 | 043318190117 |
| 2 oz, 48 per case | 0610004819011 & 0610004819021 | 043318190117 |
| 4 oz | 0600000119004 | 043318001550 |
| 4 oz, 24 per case | 0610002419004 | 043318001550 |
| 24 oz | 0600000119024 | 043318000164 |
| 24 oz, 12 per case | 0610001219024 | 043318000164 |
| 24 oz, 60 per case | 0630006019024 | 043318000164 |
| 1 gallon | 0600000119128 | 043318000188 |
| 1 gallon, 6 per case | 0610000619128 | 043318000188 |
| 5 gal | 0600000119005 | 043318000140 |
| 15 gal | 0600000119015 | 043318000263 |
| 55 gallon | 0600000119055 | 043318190599 |
| 260 gallon | 0600000119066 | 043318190667 |
| 275 gallon | 0600000119275 | 043318000195 |

Section 16: OTHER INFORMATION - continued

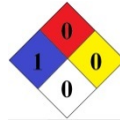
NFPA:

Health – Eye Irritant

Stability – Stable

Flammability – Non-flammable

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

Prepared / Revised By: Sunshine Makers, Inc., Regulatory Department.

This SDS has been revised in the following sections: Revised SDS layout

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.