Section 1: IDENTIFICATION

Product Name: Crystal Simple Green® Industrial Cleaner & Degreaser

Additional Names: *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 considered hazardous under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

OSHA HCS 2012: Eye Corrosive / Irritant Category 2B

OSHA HCS 2012 Label Elements

Signal Word: Warning
Hazard Symbol(s)/Pictogram(s): None required

Hazard Statements: Causes eye irritation.

Precautionary Statements: Wash hands thoroughly after handling. IF IN EYES: 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.

Hazards Not Otherwise Classified (HNOC): None Known

Other Information: None Known

Hazard Statements: Causes eye irritation.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS Number</th>
<th>Percent Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>&gt; 87%*</td>
</tr>
<tr>
<td>C9-11 Alcohols Ethoxylated</td>
<td>68439-46-3</td>
<td>&lt; 5%*</td>
</tr>
<tr>
<td>Sodium Citrate</td>
<td>68-04-2</td>
<td>&lt; 5%*</td>
</tr>
<tr>
<td>Sodium Carbonate</td>
<td>497-19-8</td>
<td>&lt; 1%*</td>
</tr>
<tr>
<td>Tetrasodium Glutamate Diacetate</td>
<td>51981-21-6</td>
<td>&lt; 1%*</td>
</tr>
<tr>
<td>Citric Acid</td>
<td>77-92-9</td>
<td>&lt; 1%*</td>
</tr>
</tbody>
</table>

*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 EYES: 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.

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.

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

Section 6: ACCIDENTAL RELEASE MEASURES


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 prolonged periods or dermally sensitive.
General Hygiene Considerations: Wash thoroughly after handling and before eating or drinking.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear Colorless Liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>No added odor</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not determined</td>
</tr>
<tr>
<td>pH</td>
<td>9.8 – 10.8</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>0-3.33°C (32-38°F)</td>
</tr>
<tr>
<td>Boiling Point Range</td>
<td>101°C (213.8°F)</td>
</tr>
<tr>
<td>Flash Point</td>
<td>&gt; 212°F</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>½ Butyl Acetate @ 25°C</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Upper/Lower Flammability or Explosive Limits</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Partition Coefficient: n-octanol/water:</td>
<td>Not determined</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>Non-flammable</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>109°F</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Like water</td>
</tr>
<tr>
<td>Specific Gravity ASTM D-891</td>
<td>1.01 – 1.03</td>
</tr>
<tr>
<td>VOCs:</td>
<td>**Water &amp; fragrance exemption in calculation</td>
</tr>
<tr>
<td>SCAQMD 304-91 / EPA 24:</td>
<td>0 g/L 0 lb/gal 0%</td>
</tr>
<tr>
<td>CARB Method 310**:</td>
<td>4.0 g/L 0.033 lb/gal 0.4%</td>
</tr>
<tr>
<td>SCAQMD Method 313:</td>
<td>Not tested</td>
</tr>
<tr>
<td>Upper/Lower Flammability or Explosive Limits:</td>
<td>Not determined</td>
</tr>
<tr>
<td>VOC Composite Partial Pressure</td>
<td>Not determined</td>
</tr>
</tbody>
</table>
Section 9: PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vapor Pressure:</td>
<td>0.60 PSI @ 77°F, 2.05 PSI @ 100°F</td>
</tr>
<tr>
<td>Relative Density:</td>
<td></td>
</tr>
<tr>
<td>Vapor Density:</td>
<td>Not determined</td>
</tr>
<tr>
<td>Solubility:</td>
<td>100% in water</td>
</tr>
</tbody>
</table>

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: None known.
- Conditions to Avoid: Excessive heat or cold.
- Incompatible Materials: Do not mix with oxidizers, acids, bathroom cleaners, or disinfecting agents.

Section 11: TOXICOLOGICAL INFORMATION

- 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 Irritication® assay modeling. No animal testing performed.
- **Eye Damage/Irritation:** Irritant per Ocular Irritication® assay modeling. No animal testing performed.
- **Germ Cell Mutagenicity:** Mixture does not classify under this category.
- **Carcinogenicity:** Mixture does not classify under this category.
- **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:** Inherently and Readily biodegradable per OECD 302B, reaches 94.5% degradation by 5 days, and 100% degradation by 21 days.

Readily Biodegradable per OECD 301D, reaches 100% degradation within 28 day window.

- **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

U.N. Number: Not applicable
U.N. Proper Shipping Name: Cleaning Compound, Liquid NOI
Transport Hazard Class(es): Not applicable
Packing Group: Not applicable
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.

ICAO/ IATA: 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

Section 16: OTHER INFORMATION

<table>
<thead>
<tr>
<th>Size</th>
<th>UPC</th>
<th>Size</th>
<th>UPC</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 fl. oz.</td>
<td>043318190117</td>
<td>15 gallon</td>
<td>043318000263</td>
</tr>
<tr>
<td>4 fl. oz.</td>
<td>043318001550</td>
<td>55 gallon</td>
<td>043318000171</td>
</tr>
<tr>
<td>24 fl. oz.</td>
<td>043318000164</td>
<td>260 gallon</td>
<td>043318190667</td>
</tr>
<tr>
<td>1 gallon</td>
<td>043318000188</td>
<td>275 gallon</td>
<td>043318000195</td>
</tr>
<tr>
<td>5 gallon</td>
<td>043318000140</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

NFPA:
Health – Eye Irritant
Stability – Stable
Flammability – Non-flammable
Special - None
Section 16: OTHER INFORMATION - continued

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: Update to SDS format

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