

**Section 1: PRODUCT & COMPANY IDENTIFICATION**

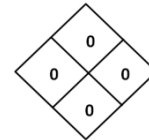
Product Name: Crystal Simple Green® Industrial Cleaner &amp; Degreaser

Additional Names:

Manufacturer's Part Number: *\*Please refer to Section 16*Company: Sunshine Makers, Inc.  
15922 Pacific Coast Highway  
Huntington Beach, CA 92649 USATelephone: 800-228-0709 • 562-795-6000 *Monday – Friday, 8am – 5pm PST*

Fax: 562-592-3830

Emergency Phone: Chem-Tel 24-Hour Emergency Service: 800-255-3924

**Section 2: HAZARDS IDENTIFICATION****Emergency Overview:** This is a clear colorless to pale straw colored liquid no added odor. No expected health hazards.**Routes of Exposures:** Eye Contact, Skin Contact, Inhalation**Potential Health Effects****Eye Contact:** Not expected to cause eye irritation.**Skin Contact:** Not expected to cause skin irritation.**Ingestion:** May cause upset stomach. See section 11.**Inhalation:** Not expected to cause respiratory irritation.**Medical Conditions Aggravated by Exposure:** Dermally sensitive users may experience dry skin.**Target Organs:** None.**Environmental Effects:** Not harmful.**NFPA/HMIS Rating:**  
Health, Fire, Reactivity,  
and Special = 0 = minimal

This mixture is not considered Hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

**Section 3: COMPOSITION/INFORMATION ON INGREDIENTS**

<u>Ingredient</u>	<u>CAS Number</u>	<u>Percent by weight</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%

**Section 4: FIRST AID MEASURES****If Inhaled:** If adverse effect occurs, move to fresh air.**If on skin:** If adverse effect occurs, rinse skin with water.**If in eyes:** If adverse effect occurs, flush eyes with water.**If ingested:** Drink plenty of water to dilute.

**Section 5: FIRE FIGHTING MEASURES****Flammability:** Non-flammable.**Flash Point:** No flash point seen at or below 212°F (100°C), ASTM D-93**Suitable Extinguishing Media:** Use Dry chemical, CO<sub>2</sub>, water spray or "alcohol" foam.**Extinguishing Media to Avoid:** High volume jet water.**Products of Combustion:** In event of fire, fire created carbon oxides may be formed.**Special Protective Equipment:** Firefighters should wear self-contained breathing apparatus and full fire-fighting turn-out gear.**Section 6: ACCIDENTAL RELEASE MEASURES****Personal Precautions:** Use personal protection recommended in section 8.**Environmental Precautions:** Prevent runoff from entering drains, sewers or waterways.**Method for Containment:** Dike or soak up with inert absorbent material.**Method for Clean Up:** Dilute with water and rinse into sanitary sewer system or dispose into suitable container.**Section 7: HANDLING AND STORAGE****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.**Storage:** 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.**Engineering Controls:** Not applicable.**Exposure Controls:****Eye Contact:** Use protective glasses if splashing or spray-back is likely.**Respiratory:** Use in well ventilated areas.**Skin Contact:** Dermal sensitive individuals should use protective gloves.**General Hygiene Considerations:** Wash thoroughly after handling and before eating or drinking.**Section 9: PHYSICAL AND CHEMICAL PROPERTIES****Appearance:** Clear colorless to pale straw liquid**Physical State:** Liquid**Odor:** No added odor – faint detergent smell**Odor Threshold:** Not available**Boiling Point** ASTM D-1120: 101°C (213.8°F)**Freezing Point** ASTM D-1177: 0 - 3.33°C (32 - 38°F)**Specific Gravity** ASTM D-891: 1.01 – 1.03**Evaporation Rate** ASTM D-1901: ½ Butyl Acetate @ 25°C**Vapor Pressure** ASTM D-323: 0.60 psi @77°F, 2.05 psi @100°F**Vapor Density:** Not applicable**pH** ASTM D-1293: 9.8 – 10.8**Flash Point** ASTM D-93: Not applicable**Flammability:** Not applicable**Autoignition Temperature:** Not applicable**Decomposition Temperature:** Not applicable**Density** ASTM D-4017: 8.552 lb/gal**Water Solubility:** 100%**Partial Coefficient:** Not available

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES - continued**

**VOCs:** SCAQMD 304-91 / EPA 24: 0 g/L 0 lb/gal 0 %  
CARB Method 310\*\* : 4 g/L 0.03 lb/gal 0.4% \*\*Water and Fragrance exemption in calculation  
SCAQMD Method 313: Not tested

**VOC composite Partial Pressure:** Not Determined

**Nutrient Content:** Phosphorous: 0.0%

**Section 10: STABILITY AND REACTIVITY**

**Stability:** Stable under normal conditions 70°F (21°C) and 14.7 psig (760 mmHg).

**Reactivity:** Non-Reactive.

**Conditions to Avoid:** None known.

**Incompatible Materials:** None known.

**Hazardous Decomposition Products:** Normal products of combustion - CO, CO<sub>2</sub>.

**Possibility of Hazardous Reactions:** None known.

**Section 11: TOXICOLOGICAL INFORMATION**

**Effects of Exposure:** Not expected to be hazardous under typical use conditions.

**Acute Toxicity:** Oral LD<sub>50</sub> (rat) > 5 g/kg body weight

Dermal LD<sub>50</sub> (rabbit) > 5 g/kg body weight

*calculated via OECD Harmonized Integrated Classification System for Human Health & Environmental Hazards of Chemical Substances & Mixtures*

**Carcinogens:** No ingredients are listed by OSHA, IARC, or NTP as known or suspected carcinogens.

**Eyes:** Minimal irritant per Ocular Irritation® assay modeling. No animal testing performed.

**Skin:** Non-irritant per Dermal Irritation® assay modeling. No animal testing performed.

**Section 12: ECOLOGICAL INFORMATION**

**Aquatic Toxicity:** Low, based on OECD 201, 202, 203 + Microtox: EC<sub>50</sub> & IC<sub>50</sub> ≥100 mg/L.

**Terrestrial Toxicity:** Low, based on toxicology profile.

**Persistence and degradability:** Readily Biodegradable per OECD 301D, Closed Bottle Test.

**Mobility:** No data available.

**Bioaccumulation:** Not applicable.

**Section 13: DISPOSAL CONSIDERATIONS**

**Appropriate Method for Disposal:**

**Unused Product:** \*Dilute with water and dispose by sanitary sewer.

**Used Product:** \*Used product may be hazardous depending on the cleaning application and resulting contaminants.

**Empty Containers:** \*Triple-rinse with water and offer for recycling if available in your area.

\*Dispose of used or unused product, and empty containers in accordance with the local, State, Provincial, and Federal regulations for your location. Never dispose of used degreasing rinsates into lakes, streams, and open bodies of water or storm drains.

**Section 14: TRANSPORT INFORMATION**

U.S. (DOT) / Canadian TDG: Not Regulated for shipping.

IMO / IDMG: Not classified as Hazardous

ICAO/ IATA: Not classified as Hazardous

ADR/RID: Not classified as Hazardous

U.N. Number: Not applicable

Proper Shipping Name: Detergent/Cleaning Solution

Hazard Class: Non-Hazardous

Marine Pollutant: No

**Section 15: REGULATORY INFORMATION**

All components are listed on: EINECS, TSCA, DSL, AICS and NZIoC Inventory.

SARA Title III: Sections 311/312 – Not applicable.

Sections 313 – Not applicable.

Sections 302 – Not applicable.

State Right To Know Lists No ingredients listed.

CA Prop 65: None listed.

Texas ESL:

Ethoxylated Alcohol	68439-46-3	60 µg/m3 long term	600 µg/m3 short term
Sodium Citrate	68-04-2	5 µg/m3 long term	50 µg/m3 short term
Sodium Carbonate	497-19-8	5 µg/m3 long term	50 µg/m3 short term
Citric Acid	77-92-9	10 µg/m3 long term	100 µg/m3 short term

WHMIS Classification – Non Hazardous, not classifiable.

Name  
No

Toxic Substances List – Schedule 1 – CEPA  
No

NPRI Inventory  
No

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**

<b>PART NUMBERS:</b>	<b>SIZES:</b>
0610001219024	24 ounce Trigger Spray 12/case
0610000619128	1-gallon Bottle 6/case
0600000119005	5-gallon Pail each
0600000119015	15-gallon Pail each
0600000119055	55-gallon Drum each
0600000119275	275-gallon Tote each

**BATCH CODING:**  
Containers of this formula will be batch coded as follows:  
Example: AT3001002, GG3001002 where...  
AT & GG are codes for production facilities,  
“3” is the last digit of the year product was produced,  
“001” is the Julian date product was produced, and  
“002” is the batch number for that product in that year.

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

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

This SDS has been revised in the following sections: pH range readjusted.

**DISCLAIMER:** The information provided with this MSDS is furnished in good faith and without warranty of any kind. Personnel handling this material must make independent determinations of the suitability and completeness of information from all sources to assure proper use and disposal of this material and the safety and health of employees and customers. Sunshine Makers, Inc. assumes no additional liability or responsibility resulting from the use of, or reliance on this information.