

## Section 1: IDENTIFICATION

**Product Name:** Simple Green® Lime Scale Remover

**Additional Names:**

**Manufacturer's Part Number:** \*Please refer to Section 16

**Recommended Use:** Acid based cleaner for the removal of lime, scale, and mineral buildup

**Restrictions on Use:** Do not use in conjunction with other chemicals OR with on surfaces not resistant to acids.

**Company:** Sunshine Makers, Inc.  
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Huntington Beach, CA 92649 USA

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**Fax:** 562-592-3830

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

## Section 2: HAZARDS IDENTIFICATION

This product is classified as hazardous (Skin Corrosive – 1C) under 2012 OSHA Hazard Communication Standards (29 CFR 1910.1200).

OSHA HCS 2012

Label Elements

**Signal Word:** DANGER

**Hazard Symbol(s)/Pictogram(s):**



**Hazard Statements:**

H314 – Causes severe skin burns and eye damage

**Precautionary Statements:**

P260 – Do not breathe dusts or mists.

P264 – Wash hands thoroughly after handling.

P280 – Wear protective gloves/eye protection.

P301 + P330 + P331 – IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 – IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P363 – Wash contaminated clothing before reuse.

P304 + P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P310 – Immediately call a POISON CENTER.

P321 – Specific treatment (see first aid on this label).

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

P405 – Store locked up.

P501 – Dispose of contents/container in accordance with local/regional/national regulations.

**Hazards Not Otherwise Classified (HNOC):** None

**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	> 81%*
Urea Hydrochloride	506-89-8	≤ 6%*
Sodium Citrate	6132-04-3	< 5%*
Ethoxylated Alcohol	68439-46-3	< 5%*
Potassium Iodide	7681-11-0	< 1%*
Fragrance	Proprietary Mixture	< 1%*
Colorant	Proprietary Mixture	< 1%*

\*specific percentages of composition are being withheld as a trade secret

**Section 4: FIRST-AID MEASURES**

- Inhalation:** IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER.
- Skin Contact:** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER.
- Eye Contact:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER.
- Ingestion:** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER.
- 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, CO<sub>2</sub>, 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**

- Personal Precautions, Protective Equipment and Emergency Procedures:** *For non-emergency and emergency personnel:* See section 8 – personal protection. Avoid eye contact. Safety goggles required.
- 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**

- |                        |                        |  |                |
|------------------------|------------------------|--|----------------|
| <b>Appearance:</b>     | Turquoise Liquid       | <b>Partition Coefficient: n-octanol/water:</b> | Not determined |
| <b>Odor:</b>           | Added wintergreen odor | <b>Autoignition Temperature:</b>               | Non-flammable  |
| <b>Odor Threshold:</b> | Not determined         | <b>Decomposition Temperature:</b>              | 109°F          |
| <b>pH:</b>             | 1.0 – 1.5              | <b>Viscosity:</b>                              | Like water     |
| <b>Freezing Point:</b> | 0-3.33°C (32-38°F)     | <b>Specific Gravity:</b>                       | 1.00 – 1.03    |

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

<b>Boiling Point &amp; Range:</b>	101°C (213.8°F)	<b>VOCs:</b>	<i>**Water &amp; fragrance exemption in calculation</i>		
<b>Flash Point:</b>	> 212°F	SCAQMD 304-91 / EPA 24:	Not tested		
<b>Evaporation Rate:</b>	Not determined	CARB Method 310**:	0.001 g/L	0.000 lb/gal	0.01%
<b>Flammability (solid, gas):</b>	Not applicable	SCAQMD Method 313:	Not tested		
<b>Upper/Lower Flammability or Explosive Limits:</b>	Not applicable	<b>VOC Composite Partial Pressure:</b>	Not determined		
<b>Vapor Pressure:</b>	Not determined	<b>Relative Density ASTM D-4017:</b>	8.34 – 8.59 lb/gal		
<b>Vapor Density:</b>	Not determined	<b>Solubility:</b>	100% in water		
<b>Reactivity:</b>	Non-reactive.				

**Section 10: STABILITY AND REACTIVITY**

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

**Section 11: TOXICOLOGICAL INFORMATION**

<b>Likely Routes of Exposure:</b>	Inhalation -	Overexposure may cause headache.
	Skin Contact -	Up to four hours of contact with no rinsing may lead to corrosion.
	Eye Contact -	Up to four hours of contact with no rinsing may lead to corrosion.
	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

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

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

<b>Skin Corrosion/Irritation:</b>	Mild Corrosive per Corrositex-In Vitro Dermal Corrosivity testing.
<b>Eye Damage/Irritation:</b>	Mild Corrosive per Corrositex-In Vitro Dermal Corrosivity testing.
<b>Germ Cell Mutagenicity:</b>	Mixture does not classify under this category.
<b>Carcinogenicity:</b>	Mixture does not classify under this category.
<b>Reproductive Toxicity:</b>	Mixture does not classify under this category.
<b>STOT-Single Exposure:</b>	Mixture does not classify under this category.
<b>STOT-Repeated Exposure:</b>	Mixture does not classify under this category.
<b>Aspiration Hazard:</b>	Mixture does not classify under this category.

**Section 12: ECOLOGICAL INFORMATION**

<b>Ecotoxicity:</b>	Volume of ingredients used does not trigger toxicity classifications under the Globally Harmonized System of Classification and Labelling of Chemicals.
<b>Aquatic:</b>	Not tested on finished formulation.
<b>Terrestrial:</b>	Not tested on finished formulation.
<b>Persistence and Degradability:</b>	Readily Biodegradable per OCED 302B
<b>Bioaccumulative Potential:</b>	No data available.
<b>Mobility in Soil:</b>	No data available.
<b>Other Adverse Effects:</b>	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:** May be offered for recycling.

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

**Section 14: TRANSPORT INFORMATION**

<b>U.N. Number:</b>	UN 3265	<b>U.N. Proper Shipping Name:</b>	Corrosive liquid, acidic, organic, n.o.s. (urea hydrochloride),
<b>Transport Hazard Class(es):</b>	Not applicable	<b>NMFC Number:</b>	
<b>Packing Group:</b>	III	<b>Class:</b>	8
<b>Environmental Hazards:</b>	Marine Pollutant - NO		
<b>Transport in Bulk (according to Annex II of MARPOL 73/78 and IBC Code):</b>	Unknown.		
<b>Special precautions which user needs to be aware of/comply with, in connection with transport or conveyance either within or outside their premises:</b>	None known.		
<b>U.S. (DOT) / Canadian TDG:</b>	UN 3265 Corrosive liquid, acidic, organic, n.o.s. (urea hydrochloride), III, 8		
<b>ICAO/ IATA:</b>	UN 3265 Corrosive liquid, acidic, organic, n.o.s. (urea hydrochloride), III, 8		
<b>IMO / IDMG:</b>	UN 3265 Corrosive liquid, acidic, organic, n.o.s. (urea hydrochloride), III, 8		
<b>ADR/RID:</b>	UN 3265 Corrosive liquid, acidic, organic, n.o.s. (urea hydrochloride), III, 8		

**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 <sup>3</sup> long term	600 µg/m <sup>3</sup> short term
Potassium Iodide	7681-11-0	5 µg/m <sup>3</sup> long term	50 µg/m <sup>3</sup> short term

**Section 16: OTHER INFORMATION**

<b>Size</b>	<b>Part Number</b>	<b>UPC</b>
2 oz.	1700000150001	043318500015
2 oz., 48 per case	15001 & 1710004850001	043318500015
32 oz.	1700000150032	043318500329
32 oz., 6 per case	1710000650032	043318500329
32 oz., 12 per case	1710001250032 & 1780101250032	043318500329
1 Gallon	1700000150128	043318501289
1 Gallon, 6 per case	15128 & 1780100650128	043318501289
1 Gallon, 6 per case	1710000650128	043318501289

**Section 16: OTHER INFORMATION - continued**

5 Gallon	50005 & 1700000150005	043318500053
55 Gallon	50155 & 1700000150155	043318501555

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

**NFPA:**

Health – Corrosive to skin and eyes	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.