

Section 1: PRODUCT & COMPANY IDENTIFICATION

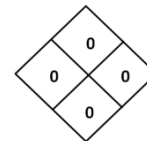
Product Name: Crystal Simple Green® Industrial Cleaner & Degreaser

Additional Names: Crystal Simple Green® Industrial Cleaner / Degreaser

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	≥ 85%
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, CO₂, water spray or “alcohol” foam.**Extinguishing Media to Avoid:** High volume jet water.**Products of Combustion:** In event of fire created carbon oxides.**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.**Storage:** Keep container tightly closed. Keep in cool dry area.**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: 9.0 ± 0.5**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%
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, CO₂.

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 LD₅₀ (rat) > 5 g/kg body weight

Dermal LD₅₀ (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: EC₅₀ & IC₅₀ ≥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 311/313 – 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

PART NUMBERS:

SIZES:

0600000119024	24 ounce Trigger Spray 12/case
0600000119128	1-gallon Bottle 6/case
0600000119005	5-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: AT3001001, GG3001001 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
“001” is the batch number for that product in that year.

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

This SDS has been revised in the following sections: ALL

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.

Crystal Simple Green

Concentrated Industrial Cleaner and Degreaser

SAFETY DATA SHEET in accordance with REGULATION (EC) No 1907/2006

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

Trade Name: Crystal Simple Green

Article Number(s): 72905 – 500 ml; 72901 – 1 L; 72910 – 10 L; 72920 – 208 L

Use of the preparation: Cleaning Agent

Company:	Sunshine Makers Inc. 15922 Pacific Coast Highway Huntington Beach, California 92649 USA	Simple Green Europe Immeuble ORIX 16 Avenue Jean Jaures 94600-Choisy-Le-Roi, France
Telephone:	+1 562 795 6000	+33 1 48 90 6699
Fax:	+1 562 592 3034	+33 09 81 40 83 67

Emergency Telephone: Chem Tel (International) - +1-813-248-0585

2 HAZARDS IDENTIFICATION

Directive 67/548/EEC: Irritant (Xi)

Directive 1999/45/EC: Warning - Irritant

Dangers to Man: May cause mild eye and skin irritation.

Dangers to Environment: Ecological injuries are not known or expected under normal use

3 COMPOSITION ON INGREDIENTS

<u>CAS No.</u>	<u>Registration No.</u>	<u>EEC No.</u>	<u>Ingredient</u>	<u>% range</u>	<u>Symbol</u>	<u>R-Phrase*</u>
111-76-2	603-014-00-0	203-905-0	2-butoxyethanol	1-5%	Xn	R20/21/22
68439-46-3	n.av.	n.av.	C9-C11 Ethoxylated Alcohol	1-5%	Xi	R36/38
					Xi	R36

* Please refer to section 16 for full R- Phrases

4 FIRST AID MEASURES

Inhalation: Move to fresh air in case of inhalation overexposure. If coughing or irritation persists, consult a physician.

Skin: Wash with water. If redness, swelling or persistent irritation occurs consult a physician.

Eye Contact: Rinse eyes and under eyelids thoroughly with plenty of water for 15 minutes. If irritation persists obtain medical attention.

Ingestion: Clean mouth with water. Drink plenty of water. Do not induce vomiting. If you feel unwell seek medical advice immediately.

Note to Physician: Treat Symptomatically.

5 FIRE FIGHTING MEASURES

Formulation is Stable, non-flammable, and will not burn. No special procedures necessary.

Suitable Extinguishing Media: Use dry chemical, CO₂, water spray or "alcohol" foam.

Extinguishing Media to Avoid: High volume water Jet.

Special Exposure Hazards: In event of fire created carbon oxides, oxides of phosphorus may be formed.

Special Protective Equipment: Wear positive pressure self-contained breathing apparatus; Wear full protective clothing.

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Crystal Simple Green

Concentrated Industrial Cleaner and Degreaser

SAFETY DATA SHEET in accordance with REGULATION (EC) No 1907/2006

6 ACCIDENTAL RELEASE MEASURES

- Personal Precautions:** See section 8 – Personal Protective Equipment
- Environmental Precautions:** Do not allow into open waterways and ground water systems. Local authorities should be advised if significant spillages cannot be contained.
- Methods for Clean Up:** Dilute with water and rinse into sanitary sewer systems or soak up with inert absorbent material (i.e. sand).

7 HANDLING AND STORAGE

- Handling:** Keep container tightly closed. Ensure adequate ventilation. Spills can be cleaned with water and rinsed into sanitary sewer systems or soaked up with inert material.
- Storage:** Keep in cool dry area.
- Specific Uses:** All-Purpose Cleaner / Degreaser for hard non-porous surfaces including metals, plastic, rubber, wood and stone. Dilute concentrate to desired strength appropriate to cleaning assignment. Apply to pre-wetted surface, scrub and rinse away.

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limit Values: 2-butoxyethanol TLV: 20 ppm

Exposure Controls

Occupational

- Respiratory:** In case of insufficient ventilation, wear suitable respiratory equipment.
- Hand:** Prolonged exposure or dermal sensitive individuals should use protective gloves.
- Eye:** If splashing is likely use protective glasses.
- Skin:** None.

Environmental Do not dispose into ground water systems.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear Liquid	Partition Coefficient:	n.av.
Odor:	Faint Detergent	Viscosity:	< 20mPA*s
pH (concentrate):	9.0-9.9	Vapour Density:	1,3 (air = 1)
Boiling Point:	100.6°C	Evaporation Rate:	> 1 (butyl acetate = 1)
Flash Point:	n.ap.	Miscibility:	n.ap.
Flammability:	n.ap.	Fat Solubility:	n.ap.
Explosive Properties:	n.ap.	Conductivity:	n.ap.
Oxidizing Properties:	n.ap.	Melting Point:	n.ap.
Vapour Pressure:	18 mmHg @ 20C; 23.5 mmHg @ 26C	Auto-Ignition:	n.ap.
Relative Density:	1,025 g/ml	Solvent content?	1-5%
Solubility:	100%	Freezing Point:	-9°C
Water Solubility:	100% Miscible		

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SAFETY DATA SHEET in accordance with REGULATION (EC) No 1907/2006

10 STABILITY AND REACTIVITY

Conditions to avoid: None under normal use.
Materials to avoid: None known.
Hazardous decomposition products: No decomposition if used as directed.

11 TOXICOLOGICAL INFORMATION

Inhalation (LC50, rat, mg/l/4h):	n.av.	Carcinogenicity:	No
Oral (LD50, rat, mg/kg):	13800	Mutagen:	No
Dermal (LD50, rat, mg/kg):	> 5000	Teratogenicity:	No
Irritation (skin):	No	Reproductive Toxicity:	No
Irritation (eyes):	Yes	Narcotic Effects:	No
Sensitisation:	No		

Classification of the preparation has been done by calculation in accordance with EEC directives.

12 ECOLOGICAL INFORMATION

Ecotoxicity: Juvenile whitebait (*G.maculatus*): 210 ppm,
Grass shrimp (*P.puglio*): 220 ppm
Rainbow trout (*Oncorhynchus mykiss*) > 600 ppm

Mobility: n.av

Persistence and degradability:

Biodegradability: Readily Biodegradable – OECD 302B: 97% after 14 days/98% after 28 days

Bioaccumulative potential : n.av

Results of pbt assessment: n.av

BOD5-Value, mg/g : n.av

Significant Components : n.av

AOX-Remarks : n.av

Other adverse effects : None

13 DISPOSAL CONSIDERATIONS

Disposal of any used or unused preparation down any sanitary sewer system and in accordance with regional authorities.

Disposal of Packaging by triple rinsing and offering up for recycling and in accordance with regional authorities.

Never dispose of preparation into lakes, streams, and open bodies of water or storm drains.

Be sure to follow any National or Regional provisions that may be in force.

14 TRANSPORTATION INFORMATION

IMO/ IDMG: Not Classified as Dangerous.

ADR/RID: Not Classified as Dangerous.

ICAO/IATA: Not Classified as Dangerous.

UN Number: Not Required

Class: Non-Hazardous

Proper Shipping Name: n.ap.

Packing Group: n.ap.

Marine pollutant: No

Crystal Simple Green

Concentrated Industrial Cleaner and Degreaser

SAFETY DATA SHEET in accordance with REGULATION (EC) No 1907/2006

15 REGULATORY INFORMATION

This mixture contains only ingredients which have been subject to a pre-registration according to Regulation (EC) No. 1907/2006 (REACH).

R-Phrase

R36: Irritating to eyes.

Hazard Symbols



S-Phrase

S2: Keep out of the reach of children.

S25: Avoid contact with eyes.

S37: Wear suitable protective gloves.

S51: Use only in well-ventilated areas

VOC Content

Contains 5.8% VOC according to California Air Resources Board Method 310.

Contains 5.9% VOC according to EPA method 24

16 OTHER INFORMATION

R-Phrase

R20/21/22: Harmful by Inhalation, in contact with skin and if swallowed.

R36: Irritating to eyes.

R36/38: Irritating to eyes and skin.

The statements in this Material Safety Data Sheet were made to the best of our knowledge and are as accurate as possible. They are given for information only. They do not constitute a contractual guarantee of a product's properties. They must neither be altered nor transferred to other products.

Date of Issue: 13.06.2012

Replaces Data Sheet of: 21.02.2012