

**Section 1: PRODUCT & COMPANY IDENTIFICATION**

Product Name: Crystal Simple Green® Industrial Cleaner/Degreaser  
Simple Green® Safety Towels (fluid only)

Manufacturer's Product Code Numbers: \*See page 4

Company: Sunshine Makers, Inc.  
15922 Pacific Coast Highway  
Huntington Harbour, CA 92649 USA

Telephone: 800-228-0709 • 562-795-6000 Fax: 562-592-3830

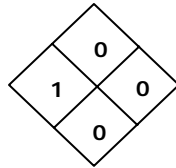
Emergency Phone: Chem-Tel 24-Hour Emergency Service: 800-225-3924

Use of Product: A specialized cleaner and degreaser for use in the industrial and institutional workplace. (Simple Green® Safety Towels contain diluted Crystal Simple Green®).

**Section 2: HAZARDS IDENTIFICATION**

**Emergency Overview: CAUTION. Mild eye irritant.**

**Crystal Simple Green® is a clear liquid with no odor. Towels are infused with a clear liquid and lack an odor.**



HMIS Rating:

Health = 1 = slight

Fire = 0

Reactivity, and Special = 0 = minimal

**Eye Contact:** Mild Eye Irritant.

**Skin Contact:** No adverse effects expected under typical use conditions. Prolonged exposure may cause dryness. Under this condition, use of gloves or skin moisturizer after washing may be indicated.

**Ingestion:** May cause stomach or intestinal upset if swallowed (due to deterative properties.)

**Inhalation:** No adverse effects expected under typical use conditions. Adequate ventilation should be present when using Crystal Simple Green® over a prolonged period of time. Open windows or ventilate via fan or other air-moving equipment if necessary.

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

**Medical Conditions:** No medical conditions are known to be aggravated by exposure to Crystal Simple Green®. Dermal-sensitive users may experience mild but reversible reactions.

**UN Number:** Not Required

**Dangerous Goods Class:** Nonhazardous

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

The only ingredient of Crystal Simple Green® with established exposure limits is undiluted 2-butoxyethanol (<6%) (Butyl Cellosolve; CAS No. 111-76-2); the ACGIH TLV-TWA is 20 ppm (97 mg/m<sup>3</sup>). Based upon chemical analysis, Crystal Simple Green® contains no known EPA priority pollutants, heavy metals or chemicals listed under RCRA, CERCLA, or CWA. Analysis by TCLP (Toxicity Characteristic Leaching Procedure) according to RCRA revealed no toxic organic or inorganic constituents.

All components of Crystal Simple Green® are listed on the TSCA Chemical Substance Inventory.

NJ Trade Secret Numbers				
80100235-5000p	80100235-5002p	80100235-5004p	80100235-5006p	80100235-5008p
80100235-5001p	80100235-5003p	80100235-5005p	80100235-5007p	80100235-5009p

**Section 4: FIRST AID MEASURES**

- Eye Contact:** Reddening may develop. Immediately rinse the eye with large quantities of cool water; continue 10-15 minutes or until the material has been removed; be sure to remove contact lenses, if present, and to lift upper and lower lids during rinsing. Get medical attention if irritation persists.
- Skin Contact:** Minimal effects, if any; rinse skin with water, rinse shoes and launder clothing before reuse. Reversible reddening may occur in some dermal-sensitive users; thoroughly rinse area and get medical attention if reaction persists.
- Swallowing:** Essentially non-toxic. Give several glasses of water to dilute; do not induce vomiting. If stomach upset occurs, consult physician.
- Inhalation:** Non-toxic. Exposure to concentrate may cause mild irritation of nasal passages or throat; remove to fresh air. Get medical attention if irritation persists.

**Section 5: FIRE FIGHTING MEASURES**

**Crystal Simple Green® is stable, not flammable, and will not burn. No special procedures required.**

- Flash Point/Auto-Ignition:** Not flammable.                      **Extinguishing Media:** Not flammable/nonexplosive.  
**Flammability Limits:** Not flammable.                      **Special Fire Fighting Procedures:** None required.

**Section 6: ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:** Avoid contact with eyes. Do not rub eyes with hands during cleanup. No special precautions for dermal contact are needed. Wash hands thoroughly after cleaning up spill or leak.

**Method for cleaning up:** Recover usable material by convenient method, residual may be removed by wipe or wet mop. If necessary, unrecoverable material may be washed to drain with large quantities of water.

**Section 7: HANDLING AND STORAGE**

No Special precautions are required. **This product is non-hazardous for storage and transport according to the U.S. Department of Transportation Regulations.** Crystal Simple Green® requires no special labeling or placarding to meet U.S. Department of Transportation requirements.

- UN Number:** Not Required    **Dangerous Goods Class:** Nonhazardous

**Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

- Exposure Limits:** The Crystal Simple Green® formulation presents no health hazards to the user when used according to label directions for its intended purposes. Mild skin and eye irritation is possible (please see Eye contact and Skin contact in section IV.) No special precautionary measures required under normal use conditions.
- Ventilation:** No special ventilation, precautions or respiratory protection is required during normal use. Large-scale use indoors should provide an increased rate of air exchange.
- Human Health Effects or Risks From Exposure:** Adverse effects on human health are not expected from Crystal Simple Green®, based on 20 years of use of Simple Green® without reported adverse health incidence in diverse population groups, including extensive use by inmates of U.S. Federal prisons in cleaning operations.
- Eye protection:** Crystal Simple Green® is a mild eye irritant; mucous membranes may become irritated by concentrate. Eye protection not generally required. Wash hands after using wipes.
- Skin protection:** Crystal Simple Green® is not likely to irritate the skin in the majority of users. Repeated daily application to the skin without rinsing, or continuous contact on the skin may lead to temporary, but reversible, irritation. Rinse completely from skin after contact.

**Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION – continued –**

General hygiene conditions: There are no known hazards associated with this material when used as recommended. The following general hygiene considerations are recognized as common good industrial hygiene practices:

- Avoid breathing vapor or mist.
- Avoid contact with eyes.
- Wash thoroughly after handling and before eating, drinking, or smoking.

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance &amp; Odor:</b> Both cleaner and towels contain a clear liquid with no odor.			
<b>Specific Gravity:</b>	1.020	<b>Vapor Pressure:</b>	18 mm Hg @ 20°C; 23.5 mmHg @ 26°C
<b>Evaporation:</b>	>1 (butyl acetate = 1)	<b>Vapor Density:</b>	1.3 (air = 1)
<b>Water Solubility:</b>	100%	<b>Density:</b>	8.5 lbs/gallon
<b>Boiling Point:</b>	100.6°C (212°F)	<b>pH:</b>	9.35; Safety Towel pH is 8.1 - 8.8
<b>Ash Content:</b>	At 600°F: 1.86% by weight	<b>Nutrient Content:</b>	
<b>Freezing Point:</b>	Approx -9 °C (16 °F) <i>If product freezes, it will reconstitute without loss of efficacy when brought back to room temperature and agitated.</i>	Phosphorus: 0.3% by formula Nitrogen <1.0% by weight (fusion and qualitative test for ammonia) Sulfur: 0.6% by weight (barium chloride precipitation method)	
<b>VOC Composite Partial Pressure:</b> 0.006 mmHg @ 20°C			
<b>Volatile Organic Compounds (VOCs):</b> Per EPA Method 24, VOC's are 5.9%. Cleaner must be diluted at least 1 part Simple Green to 2 parts water to meet CARB, and 1 part Simple Green to 4 parts water to meet SCAQMD Rule 1171 & Rule 1122 and BAAQMD Regulation 8-16 VOC requirements for solvent cleaning operations. Towel VOCs are 1.2%.			

**Section 10: STABILITY AND REACTIVITY**

Stability: Stable  
 Materials to Avoid: None known  
 Hazardous Decomposition Products: None expected

**Section 11: TOXICOLOGICAL INFORMATION**

The information and conclusions cited in this section are based on data and testing of Simple Green® because, except for fragrance and dyes which have been removed, it contains the same ingredients as Simple Green®.

**Nonhuman Toxicity (Data for Simple Green®)**

Acute Toxicity: Oral LD<sub>50</sub> (rat): >5.0 g/kg body weight      Dermal LD<sub>50</sub> (rabbit) >2.0 g/kg body weight

Eye Irritation: With or without rinsing with water, the irritation scores in rabbits at 24 hours did not exceed 15 (mild irritant) on a scale of 0-110.

Dermal Irritation: Only mild, but reversible, irritation was found in a standard 72 hour test on rabbits. A value of 0.2 (non-irritating) was found on a scale of 0-8.

Subchronic Dermal effects: No adverse effects, except reversible dermal irritation, were found in rabbits exposed to Simple Green (up to 2.0 g/kg/day for 13 weeks) applied to the skin of 25 males and 25 females. Only female body weight gain was affected.

Fertility Assessment by Continuous Breeding: The Simple Green® formulation had no adverse effect on fertility and reproduction in Cd-1 mice with continuous administration for 18 weeks, and had no adverse effect on the reproductive performance of their offspring.

