Section 1: PRODUCT & COMPANY IDENTIFICATION

Product Name: Simple Green® Heavy-Duty BBQ & Grill Cleaner (aerosol)
Additional Names: Simple Green® BBQ Grill Microwave Cleaner

Manufacturer's Part Number: 60014 – 20 oz can
Company: Sunshine Makers, Inc.
Address: 15922 Pacific Coast Highway
          Huntington Beach, CA 92649 USA
Telephone: 800-228-0709 ● 562-795-6000
Fax: 562-592-3830
Emergency Phone: Chem-Tel 24-Hour Emergency Service: 800-255-3924

Section 2: HAZARDS IDENTIFICATION

Emergency Overview: CAUTION. Irritant. This is a clear liquid (white foam) with a detergent odor.

NFPA/HMIS Rating:
Health = 1 = slight
Fire, Reactivity, and Special = 0 = minimal

Potential Health Effects
Eye Contact: Mildly irritating.
Skin Contact: No adverse effects expected under typical use conditions. Prolonged exposure may cause dryness. Chemically sensitive individuals may experience mild irritation.
Ingestion: May cause stomach or intestinal irritation if swallowed.
Inhalation: No adverse effects expected under typical use conditions. Adequate ventilation should be present for prolonged usage in small enclosed areas.

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>≥ 81%</td>
</tr>
<tr>
<td>2-butoxyethanol</td>
<td>111-76-2</td>
<td>≤ 5%</td>
</tr>
<tr>
<td>Sodium Citrate</td>
<td>68-04-2</td>
<td>≤ 5%</td>
</tr>
<tr>
<td>Laureth-7</td>
<td>Proprietary</td>
<td>≤ 1%</td>
</tr>
<tr>
<td>Triethanolamine</td>
<td>702-72-6</td>
<td>≤ 1%</td>
</tr>
<tr>
<td>Sodium Nitrite</td>
<td>7632-00-0</td>
<td>≤ 1%</td>
</tr>
<tr>
<td>Xanthan gum</td>
<td>11138-66-2</td>
<td>≤ 1%</td>
</tr>
<tr>
<td>Butane</td>
<td>106-97-8</td>
<td>4%</td>
</tr>
<tr>
<td>Propane</td>
<td>74-98-6</td>
<td>1%</td>
</tr>
</tbody>
</table>
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: Flush with plenty of water. After 5 minutes of flushing, remove contact lenses, if present. Continue flushing for at least 10 more minutes. If irritation persists seek medical attention.
If ingested: Drink plenty of water.

Section 5: FIRE FIGHTING MEASURES

Flammability: Flammable propellant; non-flammable foam
Flash Point: Not determined
Suitable Extinguishing Media: Use Dry chemical, CO2, water spray or “alcohol” foam.
Extinguishing Media to Avoid: High volume jet water.
Special Exposure Hazards: In event of fire created carbon oxides.
Special Protective Equipment: Wear positive pressure self-contained breathing apparatus; Wear full protective clothing.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: See section 8 – personal protection.
Environmental Precautions: Do not allow into open waterways and ground water systems.
Method for Clean Up: Rinse into sanitary sewer system or soak up with inert absorbent material.

Section 7: HANDLING AND STORAGE

Handling: Keep container tightly closed. Ensure adequate ventilation. Keep out of reach of children. Keep away from heat, sparks, open flame and out of direct sunlight. Do not puncture any part of container.
Storage: Keep in cool dry area.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limit Values:  
<table>
<thead>
<tr>
<th>Substance</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-butoxyethanol</td>
<td>TWA 50 ppm (240 mg/m³)</td>
<td>20 ppm (97 mg/m³)</td>
</tr>
<tr>
<td>Triethanolamine</td>
<td>-</td>
<td>5 mg/m³</td>
</tr>
</tbody>
</table>

Exposure Controls:  
Eye Contact: Use protective glasses if splashing or spray-back is likely.
Respiratory: Use in well ventilated areas.
Skin Contact: Prolonged exposure or dermal sensitive individuals should use protective gloves.
Section 9: PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>White Foam</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>18 mmHg @20°C (formula)</td>
</tr>
<tr>
<td></td>
<td>1640 mmHg @68°C (butane)</td>
</tr>
<tr>
<td></td>
<td>6350 mmHg @68°C (propane)</td>
</tr>
<tr>
<td>Odor</td>
<td>Detergent odor</td>
</tr>
<tr>
<td>Density</td>
<td>8.5 lb/gal;</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.010 - 1.040</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>100%</td>
</tr>
<tr>
<td>pH</td>
<td>9.0 – 9.9</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>~212°F (100.6°C)</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>~ 32°F (0°C)</td>
</tr>
</tbody>
</table>

Section 10: STABILITY AND REACTIVITY

Stability: Stable
Materials to Avoid: None known
Hazardous Decomposition Products: Normal products of combustion - CO, CO2;

Section 11: TOXICOLOGICAL INFORMATION

Acute Toxicity:
- Oral LD$_{50}$ (rat) > 5 g/kg body weight
- Dermal LD$_{50}$ (rabbit) > 5 g/kg body weight

Toxicity calculated from ingredients using OECD SERIES ON TESTING AND ASSESSMENT Number 33

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

Section 12: ECOLOGICAL INFORMATION

Hazard to wild mammals: Low, based on toxicology profile
Hazard to avian species: Low, based on toxicology profile
Hazard to aquatic organisms: Low, based on toxicology profile
Chemical Fate Information: Biodegradable based on biodegradation profile of ingredients

Section 13: DISPOSAL CONSIDERATIONS

Appropriate Method for Disposal:

- Unused Product: *Dilute with water to use concentration 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. Otherwise, dispose as non-hazardous waste.

*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

<table>
<thead>
<tr>
<th>MODE</th>
<th>BASIC DESCRIPTION</th>
<th>ADDITIONAL DESCRIPTION</th>
<th>PACKAGE INSTRUCTION</th>
<th>ER INFORMATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>IATA</td>
<td>Consumer Commodity [Less than 17 fl. OZ. (500 ml)]</td>
<td>9, ID8000</td>
<td>910</td>
<td>ERG 171</td>
</tr>
<tr>
<td></td>
<td>Aerosols, flammable [17 fl. OZ. (500 ml) or greater]</td>
<td>2.1, UN1950</td>
<td>Y203, LTD QTY</td>
<td>ERG 126</td>
</tr>
<tr>
<td>IMDG</td>
<td>Aerosols [For all sizes]</td>
<td>2, UN1950</td>
<td></td>
<td>ERG 126, EmS 2-13, MFAG 620</td>
</tr>
<tr>
<td>DOT (40 CFR)</td>
<td>Consumer Commodity [For all sizes]</td>
<td>ORM-D</td>
<td></td>
<td>ERG 171</td>
</tr>
<tr>
<td>UPS Air</td>
<td>Consumer Commodity [For all sizes]</td>
<td>ORM-D-AIR</td>
<td></td>
<td>ERG 171</td>
</tr>
</tbody>
</table>

Section 15: REGULATORY INFORMATION

All components are listed on: TSCA, DSL and AICS Inventory.
No components listed under: Clean Air Act Section 112; Clean Water Act 307 & 311

SARA Title III: 2-butoxyethanol is subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 as Category N230 – Certain Glycol Ethers.

RCRA Status: Not a hazardous waste  CERCLA Status : No components listed

State Right To Know Lists
2-butoxyethanol Illinois, Massachusetts, New Jersey, Pennsylvania, Rhode Island
Triethanolamine Pennsylvania, Minnesota, Massachusetts

WHMIS Classification – Category D, subcategory 2B, eye irritant

Name: 2-butoxyethanol

Toxic Substances List – Schedule 1 – CEPA (Canadian Environmental Protection Act) Yes

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

Questions about the information found on this MSDS should be directed to:
SUNSHINE MAKERS, INC. – TECHNICAL DEPARTMENT
15922 Pacific Coast Hwy. Huntington Beach, CA 92649
Phone: 800/228-0709 [8am-5pm Pacific time, Mon-Fri] Fax: 562/592-3830 Email: infoweb@simplegreen.com

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