Safety Data Sheet

SECTION 1: Identification

1.1 Product identifier
Product name: Enforce Oven & Grill Cleaner
Product number: 07218
Brand: Crown Chemical, Inc.

1.2 Other means of identification
Enforce Oven & Grill Cleaner

1.3 Recommended use of the chemical and restrictions on use
Oven & Grill Cleaner

1.4 Supplier’s details
Name: Crown Chemical, Inc.
Address: 4701 W. 136th. St.
Crestwood, Illinois 60418
U.S.A.
Telephone: 708-371-6990
Fax: 708-371-6992
email: info@crown-chem.com

1.5 Emergency phone number(s)
800-535-5053

SECTION 2: Hazard identification

General hazard statement
Extremely flammable aerosol. Causes severe skin burns and eye damage. Causes serious eye damage.

2.1 Classification of the substance or mixture
GHS classification in accordance with: OSHA (29 CFR 1910.1200)
- Flammable aerosols, Cat. 1
- Skin corrosion/irritation, Cat. 1A
- Eye damage/irritation, Cat. 1

2.2 GHS label elements, including precautionary statements

Pictogram

1. Flame; 2. Corrosion

Signal word
Danger

Hazard statement(s)
H222 Extremely flammable aerosol
H314 Causes severe skin burns and eye damage
H318 Causes serious eye damage
Precautionary statement(s)
P210  Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P211  Do not spray on an open flame or other ignition source.
P251  Pressurized container: do not pierce or burn, even after use.
P410+P412  Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P260  Do not breathe dust/fume/gas/mist/vapors/spray.
P264  Wear protective gloves/protective clothing/eye protection/face 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/doctor for treatment advice.
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 and container in accordance with all local, state, national and international regulations.

2.3 Other hazards which do not result in classification
None known

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

1. Diethylene glycol butyl ether
Concentration 2.5 - 10 % (By Weight)
EC no. 203-961-6
CAS no. 112-34-5
Index no. 603-096-00-8

- Serious eye damage/eye irritation, Cat. 2
H319 Causes serious eye irritation

2. Propane gas
Concentration 2.5 - 10 % (By Weight)
EC no. 200-827-9
CAS no. 74-98-6
Index no. 601-003-00-5

- Flammable gases, Cat. 1
- Press. Gas
H220 Extremely flammable gas

3. Sodium hydroxide
Concentration 2.5 - 10 % (By Weight)
EC no. 215-185-5
CAS no. 1310-73-2
Index no. 011-002-00-6

- Skin corrosion/irritation, Cat. 1A
H314 Causes severe skin burns and eye damage
SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice
Extremely flammable aerosol. Causes severe skin burns and eye damage. Causes serious eye damage.

If inhaled
Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a physician or poison control center immediately.

In case of skin contact
Take off immediately all contaminated clothing. Rinse skin with water/shower. Chemical burns must be treated by a physician. Call a physician or poison control center immediately. For minor skin contact, avoid spreading material on unaffected skin.

In case of eye contact
Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately. For minor skin contact, avoid spreading material on unaffected skin.

If swallowed
Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Personal protective equipment for first-aid responders
Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

4.2 Most important symptoms/effects, acute and delayed
Corrosive effects. May cause temporary blindness and severe eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

4.3 Indication of immediate medical attention and special treatment needed, if necessary
Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media
Water

5.2 Specific hazards arising from the chemical
Contents under pressure. Pressurized container may explode when exposed to heat or flame.

5.3 Special protective actions for fire-fighters
Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Further information
Use standard firefighting procedures and consider the hazards of other involved materials. Move container from fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. In the event of fire and/or explosion do not breathe fumes.
SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the MSDS.

6.2 Environmental precautions
Avoid discharge into drains, water courses or onto the ground.

6.3 Methods and materials for containment and cleaning up
Refer to attached safety data sheets and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. For waste disposal, see section 13 of the MSDS.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Do not get this material in contact with eyes. Do not get this material in contact with skin. Do not get this material on clothing. Use only in well-ventilated areas. Observe good industrial hygiene practices. Wash hands thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities
Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store away from incompatible materials (see Section 10 of the MSDS). Level 1 Aerosol (NFPA 30B)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

1. Diethylene glycol butyl ether (CAS: 112-34-5 EC: 203-961-6)
   TLV®: 10 ppm; USA (ACGIH)
   Liver effects, Kidney effects, Hematologic effects, 2014 Adoption

2. Propane (CAS: 74-98-6)
   PEL (Inhalation): 1800 mg/m3 (OSHA)
   OSHA Annotated Table Z-1, www.osha.gov
   PEL (Inhalation): 1000 ppm (Cal/OSHA)
   OSHA Annotated Table Z-1, www.osha.gov
   REL (Inhalation): 1000 ppm (NIOSH)
   OSHA Annotated Table Z-1, www.osha.gov

3. Sodium hydroxide (CAS: 1310-73-2)
   PEL (Inhalation): 2 mg/m3; USA (OSHA)
   OSHA Annotated Table Z-1, www.osha.gov
   PEL (Inhalation): (C) 2 mg/m3; USA (Cal/OSHA)
   OSHA Annotated Table Z-1, www.osha.gov
8.2 **Appropriate engineering controls**
Provide eyewash station.

8.3 **Individual protection measures, such as personal protective equipment (PPE)**

**Eye/face protection**
Wear eye/face protection. Wear safety glasses with side shields (or goggles).

**Skin protection**
Wear protective gloves.

**Body protection**
When using, do not eat, drink or smoke. Do not get this material on clothing. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**Respiratory protection**
If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

### SECTION 9: Physical and chemical properties

#### Information on basic physical and chemical properties
- **Appearance/form (physical state, color, etc.)**
  Aerosol
- **Odor**
  Not Available
- **Odor threshold**
  Not Available
- **pH**
  Not Available
- **Melting point/freezing point**
  Not Available
- **Initial boiling point and boiling range**
  Not Available
- **Flash point**
  -156.00 °F (-104.44 °C) Propellant estimated
- **Evaporation rate**
  Not Available
- **Flammability (solid, gas)**
  Not Available
- **Upper/lower flammability limits**
  Not Available
- **Vapor pressure**
  70 - 90 psig @70F estimated
- **Vapor density**
  Not Available
- **Relative density**
  Not Available
- **Solubility(ies)**
  Not Available
- **Partition coefficient: n-octanol/water**
  Not Available
- **Auto-ignition temperature**
  Not Available
- **Decomposition temperature**
  Not Available
- **Viscosity**
  Not Available
- **Explosive properties**
  Not Available
- **Oxidizing properties**
  Not Available

### SECTION 10: Stability and reactivity

10.1 **Reactivity**
Strong acids.

10.2 **Chemical stability**
Material is stable under normal conditions.
10.3 Possibility of hazardous reactions
Hazardous polymerization does not occur.

10.4 Conditions to avoid
Avoid temperatures exceeding the flash point. This product may react with oxidizing agents. Do not mix with other chemicals.

10.5 Incompatible materials
Strong Acids, Light metals

10.6 Hazardous decomposition products
No hazardous decomposition products are known.

SECTION 11: Toxicological information

Information on toxicological effects

**Acute toxicity**

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
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<tbody>
<tr>
<td>Butane (CAS 106-97-8)</td>
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<tr>
<td><strong>Acute</strong></td>
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<tr>
<td>Inhalation</td>
<td>Mouse</td>
<td>680 mg/l, 2 Hours</td>
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<td></td>
<td>Rat 658</td>
<td>mg/l, 4 Hours</td>
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<td>Diethylene Glycol Monobutyl Ether (CAS 112-34-5)</td>
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<td></td>
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<tr>
<td>Dermal</td>
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<td>Oral</td>
<td>Guinea pig</td>
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<td>Mouse</td>
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<td>Rat</td>
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<td>Other</td>
<td>Mouse</td>
<td>850 mg/kg</td>
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<td></td>
<td>Rat</td>
<td>500 mg/kg</td>
</tr>
<tr>
<td>Propane (CAS 74-98-6)</td>
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<td>Inhalation</td>
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<td>658 mg/l/4h</td>
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<tr>
<td>Sodium Hydroxide (CAS 1310-73-2)</td>
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<tr>
<td><strong>Acute</strong></td>
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<td></td>
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<tr>
<td>Dermal</td>
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<tr>
<td>Other</td>
<td>Mouse</td>
<td>40 mg/kg</td>
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</table>

* Estimates for product may be based on additional component data not shown.

**Skin corrosion/irritation**
Causes severe skin burns and eye damage.

**Serious eye damage/irritation**
Causes severe eye burns. Causes serious eye damage.
**Respiratory or skin sensitization**
May cause irritation to the respiratory system. This product is not expected to cause skin sensitization.

**Germ cell mutagenicity**
No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity**
This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

**Reproductive toxicity**
This product is not expected to cause reproductive or developmental effects.

**STOT-single exposure**
Not classified.

**STOT-repeated exposure**
Not classified.

**Aspiration hazard**
Not likely, due to the form of the product.

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**SECTION 12: Ecological information**

**Toxicity**
The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Persistence and degradability**
No data is available on the degradability of this product.

**Bioaccumulative potential**
No data available.

**Mobility in soil**
No data available.

**Other adverse effects**
No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

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**SECTION 13: Disposal considerations**

**Disposal of the product**
Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Disposal of contaminated packaging**
Since emptied containers may retain product residue, follow label warnings even after container is emptied.

**Waste treatment**
Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
SECTION 14: Transport information

DOT (US)
UN Number: UN1950
Class: 2.1
Packing Group: Not available.
Proper Shipping Name: Aerosols, flammable, containing substances in Class 8, Packing Group III

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:
2-(2-Butoxyethoxy)ethanol, CAS-No. 112-34-5

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components
Chemical name: Sodium hydroxide, CAS number: 1310-73-2

Pennsylvania Right To Know Components
2-(2-Butoxyethoxy)ethanol, CAS-No. 112-34-5
Chemical name: Propane, CAS number: 74-98-6
Chemical name: Sodium hydroxide, CAS number: 1310-73-2

New Jersey Right To Know Components
2-(2-Butoxyethoxy)ethanol, CAS-No. 112-34-5
Common name: PROPANE, CAS number: 74-98-6
Common name: SODIUM HYDROXIDE, CAS number: 1310-73-2

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16: Other information

The information herein is believed to be correct, but is given without warranty or guaranty of any kind, express or implied. The hazards provided in this Safety Data Sheet apply to the product in its concentrated form, and may differ significantly after dilution.

16.1 Further information/disclaimer
DISCLAIMER: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of information for their particular purposes. In no event shall Crown Chemical, Inc. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, whatsoever arising, even if Crown Chemical, Inc. has been advised of the possibility of such damages.