

Safety Data Sheet

SECTION 1: Identification

1.1 GHS 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

800-535-5053

SECTION 2: Hazard identification

General hazard statement

Contains gas under pressure; may explode if heated. Causes serious eye irritation. May cause an allergic skin reaction.

2.1 Classification of the substance or mixture

GHS classification in accordance with: OSHA (29 CFR 1910.1200)

- Skin corrosion/irritation, Cat. 1A
- Eye damage/irritation, Cat. 1
- Skin corrosion/irritation, Cat. 2
- Gases under pressure, liquefied gas

2.2 GHS label elements, including precautionary statements

Pictogram



1. Gas cylinder; 2. Corrosion; 3. Exclamation mark

Signal word

Danger

Hazard statement(s)

H290 May be corrosive to metals
H280 Contains gas under pressure; may explode if heated
H319 Causes serious eye irritation
H317 May cause an allergic skin reaction

Safety Data Sheet

Enforce Oven & Grill Cleaner

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
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.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Wash hands & skin thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+P352	IF ON SKIN: Wash with plenty of water/Take off immediately contaminated clothing and wash it before reuse. Call a poison control center or doctor for treatment advice if irritation persists.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P310	Immediately call a POISON CENTER/doctor for treatment advice.
P321	Specific treatment (see details on label).
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501	Dispose of contents and container in accordance with all local, state, national and international regulations.
P410+P403	Protect from sunlight. Store in a well-ventilated place.

2.3 Other hazards which do not result in classification

None known

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

1. Petroleum gases, liquefied, sweetened, if they contain > 0.1% w/w Butadiene

Concentration 3 - 6 % (By Weight)
CAS no. 0068476-86-8

- Flammable gases, Cat. 1
- Fail: No text found to return.
- Carcinogenicity, Cat. 1A
- Germ cell mutagenicity, Cat. 1B

H220 Extremely flammable gas
H340 May cause genetic defects [route]
H350 May cause cancer [route]

2. Diethylene glycol butyl ether

Concentration 2 - 3 % (By Weight)
CAS no. 112-34-5

- Acute toxicity, dermal, Cat. 5
- Acute toxicity, oral, Cat. 5
- Eye damage/irritation, Cat. 2A

H303 May be harmful if swallowed
H313 May be harmful in contact with skin
H319 Causes serious eye irritation

Safety Data Sheet

Enforce Oven & Grill Cleaner

3. Sodium hydroxide

Concentration 1 - 2 % (By Weight)
CAS no. 1310-73-2

- Skin corrosion/irritation, Cat. 1A

H314 Causes severe skin burns and eye damage
SCLs/M-factors/ATEs Skin Corr. 1A; H314: $C \geq 5\%$
Skin Corr. 1B; H314: $2\% \leq C < 5\%$
Skin Irrit. 2; H315: $0,5\% \leq C < 2\%$
Eye Irrit. 2; H319: $0,5\% \leq C < 2\%$

4. Orange terpenes

Concentration 0.5 % (By Weight)
EC no. 232-433-8
CAS no. 68647-72-3

- Aspiration hazard, Cat. 1
- Flammable liquids, Cat. 3
- Hazardous to the aquatic environment, short-term (acute), Cat. 2
- Hazardous to the aquatic environment, long-term (chronic), Cat. 2
- Skin corrosion/irritation, Cat. 2

H226 Flammable liquid and vapor
H304 May be fatal if swallowed and enters airways
H315 Causes skin irritation
H317 May cause an allergic skin reaction
H411 Toxic to aquatic life with long lasting effects

Trade secret statement (OSHA 1910.1200(i))

The specific chemical identities and/or actual concentrations for one or more components are being withheld as trade secrets under the US regulation 29 CFR 1910.1200(i).

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice	Contains gas under pressure; may explode if heated. Causes serious eye irritation. May cause an allergic skin reaction.
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.
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.

Safety Data Sheet

Enforce Oven & Grill Cleaner

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. 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

REL (Inhalation): (C) 2 mg/m³; USA (NIOSH)

OSHA Annotated Table Z-1, www.osha.gov

TLV® (Inhalation): (C) 2 mg/m³; USA (ACGIH)

OSHA Annotated Table Z-1, www.osha.gov

3. Orange terpenes (CAS: 8028-48-6)

TLV® (Inhalation): 30 ppm (ACGIH)

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 and safety characteristics

Basic physical and chemical properties

Physical state

Gas

Appearance

White Liquid

Odor

Citrus

Odor threshold

Not Available

Melting point/freezing point

Not Available

Boiling point or initial boiling point and boiling range

Not Available

Flammability

Flash point below 73°F/23°C

Lower and upper explosion limit/flammability limit

Not Available

Flash point

Not Available

Explosive properties

Not Available

Auto-ignition temperature

Not Available

Decomposition temperature

Not Available

Oxidizing properties

Not Available

Safety Data Sheet

Enforce Oven & Grill Cleaner

pH	Not Available
Kinematic viscosity	Not Available
Solubility	Not Available
Partition coefficient n-octanol/water (log value)	Not Available
Vapor pressure	Not Available
Evaporation rate	Not Available
Density and/or relative density	8.33 lb/gal
Relative vapor density	Not Available

Particle characteristics

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. Dropping containers may cause bursting.

10.5 Incompatible materials

Avoid strong oxidizers, reducers, acids, and alkalis.

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/irritation

May cause an allergic skin reaction

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.

Safety Data Sheet

Enforce Oven & Grill Cleaner

STOT-single exposure

Not classified.

STOT-repeated exposure

Not classified.

Aspiration hazard

Not likely, due to the form of the product.

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.

SECTION 13: Disposal considerations

Disposal methods

Product disposal

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.

Packaging disposal

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: 2.2

Packing Group: Not available.

Proper Shipping Name: Aerosols, non-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 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

Safety Data Sheet

Enforce Oven & Grill Cleaner

SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

2-(2-Butoxyethoxy)ethanol, CAS-No. 112-34-5

Sodium hydroxide, CAS number: 1310-73-2

Pennsylvania Right To Know Components

2-(2-Butoxyethoxy)ethanol, CAS-No. 112-34-5

Sodium hydroxide, CAS number: 1310-73-2

New Jersey Right To Know Components

2-(2-Butoxyethoxy)ethanol, CAS-No. 112-34-5

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.