

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200



SC JOHNSON PROFESSIONAL™ Mr. Muscle® Foaming Oven and Grill Cleaner (Heavy Duty Formula)

Version 1.1

Print Date 08/18/2017

Revision Date 08/02/2017

SDS Number 350000033296
GEN_SOF Number 60630

1. PRODUCT AND COMPANY IDENTIFICATION

Product information

- Product name** : SC JOHNSON PROFESSIONAL™ Mr. Muscle® Foaming Oven and Grill Cleaner (Heavy Duty Formula)
- Recommended use** : Oven Cleaner
- Restrictions on use** : Use only as directed on label
- Manufacturer, importer, supplier** : S.C. Johnson & Son, Inc.
1525 Howe Street
Racine WI 53403-2236
- Telephone** : +1-800-558-5252
- Emergency telephone number** : 24 Hour Medical Emergency Phone: (866)231-5406
24 Hour International Emergency Phone: (703)527-3887
24 Hour Transport Emergency Phone: (800)424-9300

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Globally Harmonized System (GHS) Classification

Hazard classification	Hazard category	Hazards identification
Skin corrosion	Category 1C	Causes severe skin burns and eye damage.
Serious eye damage	Category 1	Causes serious eye damage.
Gases under pressure	Compressed gas	Contains gas under pressure; may explode if heated.

Labelling

Hazard symbols

Gas cylinder
Corrosion

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Signal word

Danger

Hazard statements

Contains gas under pressure; may explode if heated.
Causes severe skin burns and eye damage.

Precautionary statements

If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Read label before use.
Immediately call a POISON CENTER/doctor.
Specific treatment (see supplemental first aid instructions on this label).
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
Wash contaminated clothing before reuse.
Store locked up.
Protect from sunlight. Store in a well-ventilated place.
Dispose of contents/ container to an approved incineration plant.
Wear protective gloves.
Do not breathe dust or mist.
Wash hands thoroughly after handling.

Other hazards : Intentional misuse by deliberately concentrating and inhaling contents can be harmful or fatal.
Excessive exposure to spray mist, fog or vapour may cause respiratory irritation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS-No.	Weight percent
Sodium hydroxide	1310-73-2	5.00 - 10.00
Butane	106-97-8	1.00 - 5.00
Diethylene glycol monobutyl ether	112-34-5	1.00 - 5.00

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Propane	74-98-6	1.00 - 5.00
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The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

For additional information on product ingredients, see www.whatsinsidescjohnson.com.

4. FIRST AID MEASURES

Description of first aid measures

- Eye contact** : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Get medical attention immediately.
- Skin contact** : IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER/doctor.
- Inhalation** : IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
- Ingestion** : IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed

- Eyes** : Causes serious eye damage.
- Skin effect** : Causes severe skin burns.
No adverse effects expected when used as directed.
- Inhalation** : Intentional misuse by deliberately concentrating and inhaling contents can be harmful or fatal.
Excessive exposure to spray mist, fog or vapour may cause respiratory irritation.
- Ingestion** : Causes digestive tract burns.
No adverse effects expected when used as directed.

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Indication of any immediate medical attention and special treatment needed

See Description of first aid measures unless otherwise stated.

5. FIREFIGHTING MEASURES

- Suitable extinguishing media** : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Specific hazards during firefighting** : Aerosol Product - Containers may rocket or explode in heat of fire.
- Further information** : Fight fire from maximum distance or protected area. Cool and use caution when approaching or handling fire-exposed containers. Wear full protective clothing and positive pressure self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Remove all sources of ignition.
Wear personal protective equipment.
Wash thoroughly after handling.
- Environmental precautions** : Outside of normal use, avoid release to the environment.
- Methods and materials for containment and cleaning up** : Sweep up and shovel into suitable containers for disposal.
Clean residue from spill site.

7. HANDLING AND STORAGE

- Handling**
- Precautions for safe handling** : Avoid contact with skin, eyes and clothing.
For personal protection see section 8.
Use only as directed.

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KEEP OUT OF REACH OF CHILDREN AND PETS.
Avoid breathing vapours, mist or gas.
Wash thoroughly after handling.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Storage

Requirements for storage areas and containers : Store locked up.
Protect from sunlight.
Store in a well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

Components	CAS-No.	mg/m3	ppm	Non-standard units	Basis
Sodium hydroxide	1310-73-2	2 mg/m3	-	-	OSHA TWA
Sodium hydroxide	1310-73-2	2 mg/m3	-	-	ACGIH Ceiling
Butane	106-97-8	-	1,000 ppm	-	ACGIH STEL
Diethylene glycol monobutyl ether	112-34-5	-	35 ppm	-	SUPPLIER
Diethylene glycol monobutyl ether	112-34-5	-	10 ppm	-	ACGIH TWA
Propane	74-98-6	1,800 mg/m3	1,000 ppm	-	OSHA TWA
Propane	74-98-6	-	-	-	ACGIH TWA

Personal protective equipment

Respiratory protection : Substantial amounts of mist/vapors can be controlled with

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local exhaust ventilation or respiratory protection.

- Hand protection** : Rubber gloves
- Eye protection** : Wear splash-resistant Chemical goggles.
- Skin and body protection** : Protective footwear.
- Hygiene measures** : Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Form** : aerosol
- Color** : colourless
- Odour** : solvent-like
- Odour Threshold** : Test not applicable for this product type

- pH** : 13 - 14

- Melting point/freezing point** : Test not applicable for this product type
- Initial boiling point and boiling range** : Test not applicable for this product type
- Flash point** : -104.4 C
-155.92 °F
Propellant
105 C
221 °F
liquid

- Evaporation rate** : Test not applicable for this product type

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Flammability (solid, gas)	: The product is not flammable.
Upper/lower flammability or explosive limits	: Test not applicable for this product type
Vapour pressure	: estimated 27.3 psi at 21 C
Vapour density	:
Relative density	: 1.055 g/cm ³
Solubility(ies)	: soluble
Partition coefficient: n-octanol/water	: Test not applicable for this product type
Auto-ignition temperature	: Test not applicable for this product type
Decomposition temperature	: Test not applicable for this product type
Viscosity, dynamic	: Test not applicable for this product type
Viscosity, kinematic	: Test not applicable for this product type
Oxidizing properties	: Test not applicable for this product type
Volatile Organic Compounds Total VOC (wt. %)*	: 4.9 % - additional exemptions may apply *as defined by US Federal and State Consumer Product Regulations

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Other information : None identified :

10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : If accidental mixing occurs and toxic gas is formed, exit area immediately. Do not return until well ventilated.

Conditions to avoid : Direct sources of heat.

Incompatible materials : Strong oxidizing agents
Do not mix with bleach or any other household cleaners.
Strong bases

Hazardous decomposition products : Thermal decomposition can lead to release of irritating gases and vapours.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50 > 5000 mg/kg

Acute inhalation toxicity : LC50 > 10 mg/L

Acute dermal toxicity : LD50 > 5000 mg/kg

GHS Properties	Classification	Routes of entry
Acute toxicity	No classification proposed	Oral
Acute toxicity	No classification proposed	Dermal

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Acute toxicity	No classification proposed	Inhalation - Dust and Mist
Acute toxicity	No classification proposed	Inhalation - Vapour
Acute toxicity	No classification proposed	Inhalation - Gas
Skin corrosion	Category 1C	-
Serious eye damage	Category 1	-
Skin sensitisation	No classification proposed	-
Respiratory sensitisation	No classification proposed	-
Germ cell mutagenicity	No classification proposed	-
Carcinogenicity	No classification proposed	-
Reproductive toxicity	No classification proposed	-
Specific target organ toxicity - single exposure	No classification proposed	-
Specific target organ toxicity - repeated exposure	No classification proposed	-
Aspiration hazard	No classification proposed	-

Aggravated Medical Condition : None known.

12. ECOLOGICAL INFORMATION

Product : The product itself has not been tested.

Toxicity

The ingredients in this formula have been reviewed and no adverse impact to the environment is expected when used according to label directions.

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Toxicity to fish

Components	End point	Species	Value	Exposure time
Sodium hydroxide	LC50	Fish	35 - 189 mg/l	96 h
Butane	LC50 QSAR	Fish	27.98 mg/l	96 h
Diethylene glycol monobutyl ether	static test LC50	Lepomis macrochirus (Bluegill sunfish)	1,300 mg/l	96 h
Propane	LC50	Fish	27.98 mg/l	96 h

Toxicity to aquatic invertebrates

Components	End point	Species	Value	Exposure time
Sodium hydroxide	EC50	Daphnia magna (Water flea)	40.4 mg/l	48 h
Butane	No data available			
Diethylene glycol monobutyl ether	static test EC50	Daphnia magna (Water flea)	> 100 mg/l	48 h

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Propane	LC50	Daphnid	14.22 mg/l	48 h
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Toxicity to aquatic plants

Components	End point	Species	Value	Exposure time
Sodium hydroxide	No data available			
Butane	EC50 QSAR	Green algae	7.71 mg/l	96 h
Diethylene glycol monobutyl ether	Growth inhibition EC50	Desmodesmus subspicatus (green algae)	> 100 mg/l	96 h
Propane	No data available			

Persistence and degradability

Component	Biodegradation	Exposure time	Summary
Sodium hydroxide	No data available		
Butane	100 %	385.5 h	Readily biodegradable.
Diethylene glycol monobutyl ether	80 - 90 %	28 d	Readily biodegradable.
Propane	70 %	< 10 d	Readily biodegradable.

Bioaccumulative potential

Component	Bioconcentration factor (BCF)	Partition Coefficient n-Octanol/water (log)
Sodium hydroxide	0.89 estimated	-1.38
Butane	No data available	2.89
Diethylene glycol monobutyl ether	1.12 estimated	1
Propane	No data available	2.36

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Mobility

Component	End point	Value
Sodium hydroxide	No data available	
Butane	No data available	
Diethylene glycol monobutyl ether	No data available	
Propane	No data available	

PBT and vPvB assessment

Component	Results
Sodium hydroxide	Not fulfilling PBT and vPvB criteria
Butane	Not fulfilling PBT and vPvB criteria
Diethylene glycol monobutyl ether	Not fulfilling PBT and vPvB criteria
Propane	Not fulfilling PBT and vPvB criteria

Other adverse effects : None known.

13. DISPOSAL CONSIDERATIONS

Consumer may discard empty container in trash, or recycle where facilities exist.

14. TRANSPORT INFORMATION

Please refer to the Bill of Lading/receiving documents for up-to-date shipping information.

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	Land transport	Sea transport	Air transport
UN number	1950	1950	1950
UN proper shipping name	UN 1950 AEROSOLS, Corrosive, 2.2 (8)	UN 1950 AEROSOLS, Corrosive, 2.2 (8)	UN 1950 AEROSOLS, Corrosive, 2.2 (8)
Transport hazard class(es)	2.2	2	2.2
Packing group	-	-	-
Environmental hazards	-	-	-
Special precautions for user	Limited quantities derogation may be applicable to this product, please check transport documents.	Limited quantities derogation may be applicable to this product, please check transport documents.	Limited quantities derogation may be applicable to this product, please check transport documents.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Product not transported as bulk.	Product not transported as bulk.	Product not transported as bulk.

15. REGULATORY INFORMATION

Notification status : All ingredients of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

Notification status : All ingredients of this product comply with the New Substances Notification requirements under the Canadian Environmental Protection Act (CEPA).

California Prop. 65 : This product is not subject to the reporting requirements under California's Proposition 65.

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State Right To Know

Massachusetts RTK	Sodium hydroxide	1310-73-2
	Butane	106-97-8
	Propane	74-98-6
Minnesota HSL	Sodium hydroxide	1310-73-2
	Butane	106-97-8
	Propane	74-98-6
New Jersey HRTK	Sodium hydroxide	1310-73-2
	Butane	106-97-8
	Propane	74-98-6
Pennsylvania RTKL	Water	7732-18-5
	Sodium hydroxide	1310-73-2
	Butane	106-97-8
	Propane	74-98-6

16. OTHER INFORMATION

HMIS Ratings

Health	3
Flammability	2
Reactivity	0

NFPA Ratings

Health	3
Fire	2
Reactivity	0
Special	-

This information is being provided in accordance with the Occupational Safety and Health Administration (OSHA) regulation (29 CFR 1910.1200). The information supplied is designed for workplaces where product use and frequency of exposure exceeds that established for the labeled consumer use.

Further information

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Prepared by	SC Johnson Global Safety Assessment & Regulatory Affairs (GSARA)
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